

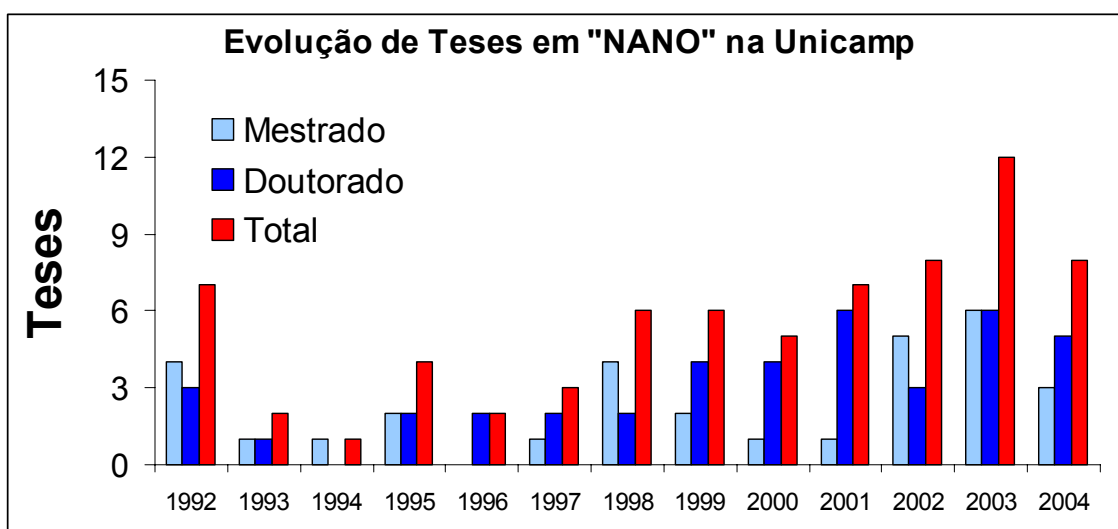
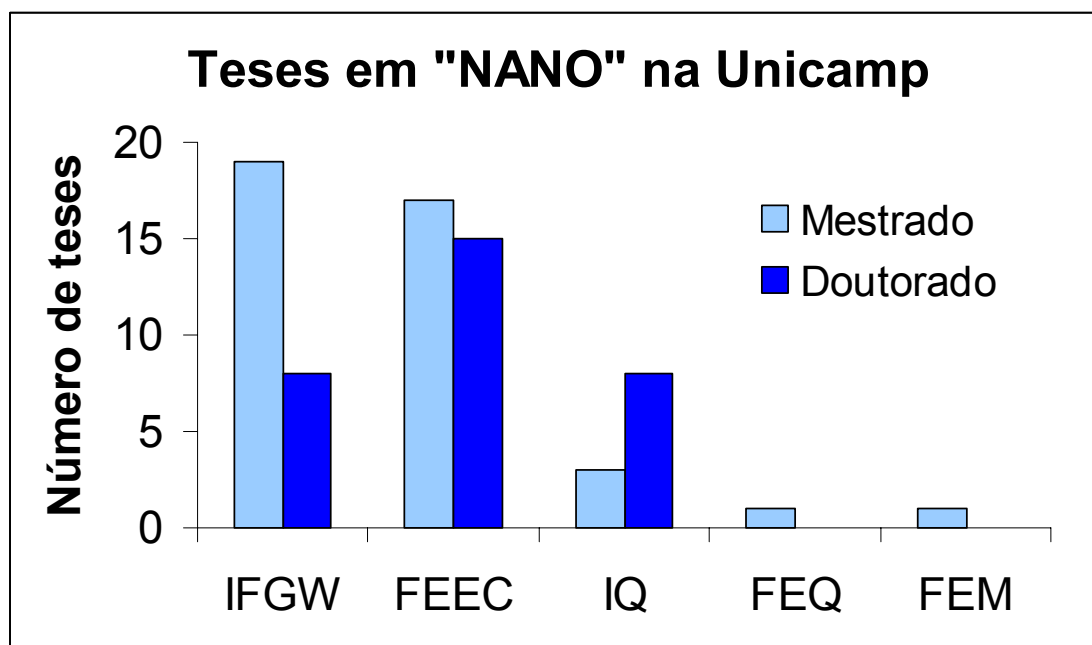


LEVANTAMENTO DA NANOTECNOLOGIA NA UNICAMP

PRÓ-REITORIA DE PESQUISA
UNICAMP

ABRIL DE 2005

TESES UNICAMP



MESTRADO

1. **Gleison Alan Manera - Mestrado em Engenharia Elétrica**
Dielétricos de Porta de Oxinitreto de Silício obtidos por Plasma
ECR. 05/2004
Orientador(a): Alexandre Diniz

2. **José Marcelo Vargas - Mestrado em Física**
Interações magnéticas em nanopartículas coloidais de Fe - óxido de Fe". 03/03/2004
Orientador(a): Daniela Zanchet
3. **Odilon Divino Damasceno Couto Júnior - Mestrado em Física**
Filmes de MnAs sobre GaAs e nanoestruturas de MnAs implantadas em GaAs". 04/03/2004
Orientador(a): Maria José Santos Pompeu Brasil
4. **Alexandre Gorni Felício - Mestrado em Engenharia Elétrica**
Filmes Isolantes de SiO_xN_y Formados por Implantação de Nitrogênio em Substrato de Silício Posterior Oxidação Térmica. 05/2003
Orientador(a): Alexandre Diniz
5. **Elsó Luiz Rigon - Mestrado em Física**
Gravação e Caracterização de Nanoestruturas Bidimensionais em Relevo". 10/03/2003
Orientador(a): Lucila Helena Deliesposte Cescato
6. **Fernando de Medeiros Diório - Mestrado em Engenharia Mecânica**
Obtenção de filmes de ni nanocristalino por eletrodeposição pulsada, sem utilização de aditivos orgânicos. 28/07/2003
Orientador(a): Célia Marina de Alvarenga Freire
7. **Larissa Otubo - Mestrado em Química**
Preparação e Caracterização de Nanocompósitos Organo-Inorgânicos de Óxido de Manganês e Materiais Poliméricos. 11/12/2003
Orientador(a): Oswaldo Luiz Alves
8. **Marina Soares Leite - Mestrado em Física**
Diferenças Estruturais em Nanopartículas de Ag e Au Coloi- dais. 25/07/2003
Orientador(a): Daniela Zanchet
9. **Regis Eugênio dos Santos - Mestrado em Engenharia Elétrica**
Investigação sobre Formação e Estabilidade Térmica de Filmes de Silicetos de Ni e Ni(Pt) em Substratos de Si (100). 02/2003
Orientador(a): Ioshiaki Doi

10. **Alberto Yassushi Shimahara - Mestrado em Engenharia Mecânica**
Estudo dos Agregados de Nano-partículas em Preformas de Si-lica para Fibras Óticas por Microscopia Eletrônica de Varredura. 12/04/2002
Orientador(a): Carlos Kenichi Suzuki
11. **Alexandre Reily Rocha - Mestrado em Física**
Modelo teórico para o transporte em nanoestruturas. 21/06/2002
Orientador(a): José Antônio Brum
12. **Antonio Alvaro Ranha Neves - Mestrado em Física**
Nanocristais Coloidais de Semicondutores II-IV e IV-VI. 22/03/2002
Orientador(a): Carlos Lenz César
13. **Francisco Tadeu Degasperi - Mestrado em Engenharia Elétrica**
Modelagem e análise detalhadas de sistemas de vácuo. 2002.
Orientador(a): Vitor Baranauskas
14. **Pedro Ricchini Villalobos - Mestrado em Química**
Nanocompósitos organo-inorgânicos envolvendo polímeros condutores e óxidos mistos lamelares: aspectos estruturais e de reatividade. 28/05/2002
Orientador(a): Oswaldo Luiz Alves
15. **Ricardo Romano - Mestrado em Química**
Fosfatos Ácidos de Metais Tetravalentes: Intercalação de Espécies Orgânicas e Potencialidades na Preparação de Nanocompósitos com Polianilina e Nylon-6. 18/05/2001
Orientador(a): Oswaldo Luiz Alves
16. **Marcela Mohallem Oliveira - Mestrado em Química**
Obtenção de Nanocompósitos de Óxidos Semicondutores Inseridos em Vidro Poroso Vycor Via Decomposição de Precursores Metalorgânicos. 19/12/2000
Orientador(a): Oswaldo Luiz Alves
17. **Márcia Maria Rippel - Mestrado em Química**
Obtenção de Nanotubos de Sílica a Partir de Silicato de Tetrametilamônio sobre Arranjos Supramoleculares. 26/08/1999
Orientador(a): Heloise de Oliveira Pastore

18. **Varlei Rodrigues - Mestrado em Física**
Efeitos Quânticos no Transporte Elétrico em Nanoestruturas Metálicas. 28/01/1999
Orientador(a): Daniel Mario Ugarte
19. **Carla Verissimo - Mestrado em Química**
Preparação e Caracterização de Nanocompósitos Organo-Inorgânicos Envolvendo Fosfatos de Metais Tetravalentes e Polímeros Condutores: Fosfato de Cério(IV)Polipirrol. 02/09/1998
Orientador(a): Oswaldo Luiz Alves
20. **Julio Criginski Cezar - Mestrado em Física**
Estudo por EXAFS de Nanopartículas de Cobalto Imersas em uma Matriz de Cobre. 17/12/1998
Orientador(a): Helio Cesar Nogueira Tolentino
21. **Marcelo Carvalho Tosin - Mestrado em Engenharia Elétrica**
Deposição de diamante e estruturas diamantíferas por eletrólise. 1998.
Orientador(a): Vitor Baranauskas
22. **Vitor Augusto de Rego M Pinheiro de Lima - Mestrado em Química**
Nanopartículas de Polifosfato de Alumínio. 22/05/1998
Orientador(a): Fernando Galembeck
23. **Laerte Gomes Ferreira - Mestrado em Engenharia Elétrica**
Um método para determinação da granulometria de imagens topográficas baseado na teoria de cálculo da dimensão fractal. 1997.
Orientador(a): Vitor Baranauskas
24. **Dahge Chiadin Chang - Mestrado em Engenharia Elétrica**
Caracterização de silício poroso por microscopia de força atômica. 1995.
Orientador(a): Vitor Baranauskas
25. **Maurício Luís Sforça - Mestrado em Química**
Membranas de Poliamida para Ultra-e-nano-Filtração. 26/05/1995
Orientador(a): Suzana Pereira Nunes
26. **Yasushi Kochinda - Mestrado em Engenharia Elétrica**

Fabricação de pontas de tungstênio para a microscopia de tunelamento. 1994.

Orientador(a): Vitor Baranauskas

27. **Cesar Augusto Rosales Córdova - Mestrado em Engenharia Elétrica**

Caracterização de rugosidades de superfícies atômicas por fractais. 1993.

Orientador(a): Vitor Baranauskas

28. **Americo Carnevali Filho - Mestrado em Engenharia Elétrica**

Sobre o tratamento Wentzel Kramers-Brillouin (WKB) aplicado às assimetrias geométricas da microscopia de tunelamento de elétrons (MTE). 1992.

Orientador(a): Vitor Baranauskas

29. **Ana Kátia de Mesquita Braga - Mestrado em Engenharia Elétrica**

Fotodeposição de ouro sobre silício induzida a laser. 1992.

Orientador(a): Vitor Baranauskas

30. **Marcelo Fukui - Mestrado em Engenharia Elétrica**

Técnicas de microscopia de tunelamento de elétrons (MTE) e microscopia de força atômica (MFA) aplicadas ao estudo de superfícies de grafite e diamante. 1992.

Orientador(a): Vitor Baranauskas

31. **Wagner Alexandre Picolo - Mestrado em Engenharia Elétrica**

Análise da oxidação térmica de filmes de Au-Nb por espectroscopia de elétrons Auger (AES). 1992.

Orientador(a): Vitor Baranauskas

DOUTORADO

32. **Ana Claudia Monteiro Carvalho - Doutorado em Física**

Estrutura eletrônica de nanotubos de nitreto de carbono".

16/07/2004

Orientador(a): Maria Cristina dos Santos

33. **Ana Lúcia Brandl - Doutorado em Física**

Propriedades magnéticas de sistemas nanocristalinos".

30/06/2004

Orientador(a): Marcelo Knobel

34. **Márcio Fontana - Doutorado em Engenharia Elétrica**
Síntese e Caracterização de filmes porosos de carbono, silício e óxido de estanho. 2004.
35. **Roosevelt Droppa Junior - Doutorado em Física**
Síntese e caracterização de nanotubos e fulerenos nitrogenados gerados por arco elétrico". 20/02/2004
Orientador(a): Fernando Alvarez
36. **Vitor Rafael Coluci - Doutorado em Física**
Aplicação de métodos clássicos e quânticos em nanociência e biofísica". 30/04/2004
Orientador(a): Douglas Soares Galvão
37. **Érica Cristina de Oliveira - Doutorado em Química**
Nanoreatores Zeolíticos. 06/06/2003
Orientador(a): Heloise de Oliveira Pastore
38. **Claudia Reyes-Betanzo - Doutorado em Engenharia Elétrica**
Corrosão por Plasma para Tecnologias CMOS e Microsistemas. 03/2003
Orientador(a): Stanislav Moshkalyov
39. **Guinther Kellermann - Doutorado em Física**
Nanoagregados em Matrizes Vítreas. 26/02/2003
Orientador(a): Aldo Félix Craievich
40. **Gustavo Michel Mendoza La Torre - Doutorado em Física**
Espectroscopia de Tunelamento em Sistemas Nanoscópicos de Transporte Balístico". 19/09/2003
Orientador(a): Peter Alexander Bleinroth Schulz
41. **Jing Guo Zhao - Doutorado em Engenharia Elétrica**
Caracterização de amostras rugosas por microscopia de força atômica. 2003.
Orientador(a): Vitor Baranauskas
42. **Masahiro Tomiyama - Doutorado em Engenharia Mecânica**
Síntese e Caracterização de Nanovidro de Sílica para Preforma de Fibra Óptica. 04/04/2003
Orientador(a): Carlos Kenichi Suzuki

43. **Elizabete Yoshie Kawachi - Doutorado em Química**
Síntese de nanopartículas de fosfatos de cálcio em ambientes confinados no sistema renex-100(r)/cicloexano/brine. 01/07/2002
Orientador(a): Celso Aparecido Bertran
44. **José Gino Venegas Romero - Doutorado em Física**
Síntese de Fullerenos (C₆₀, C₇₀) e Nanotubos de Carbono de Parede Simples por Pirólise em Plasma de Hélio, e sua Caracterização por Espectroscopia IV, UV-Vis, DRX Adsorção de Gases, Espectroscopia Raman MEV e MET. 08/02/2002
Orientador(a): Carlos Alberto Luengo
45. **Varlei Rodrigues - Doutorado em Física**
Efeitos do Arranjo Atômico na Condutância Quântica de Nanofios Metálicos. 25/04/2002
Orientador(a): Daniel Mario Ugarte
46. **Américo Carnevali Filho - Doutorado em Engenharia Elétrica**
Tratamento do caso não-semiclassico por separação do hamiltoniano em uma parcela variacional e uma parcela laplaciana aplicado à espectroscopia e microscopia de tunelamento de elétrons. 2001.
Orientador(a): Vitor Baranauskas
47. **Helder José Ceragioli - Doutorado em Engenharia Elétrica**
Influência de Gases Nobres no Crescimento de Diamante e de Nanoestruturas de Carbono pelo Método de Deposição Química a partir da Fase Vapor (CVD). 08/06/2001
Orientador(a): Vitor Baranauskas
48. **Humberto Rodríguez Gutiérrez - Doutorado em Física**
Nanoestruturas e Efeitos de Tamanho na Epitaxia de Compostos III-V. 16/10/2001
Orientador(a): Mônica Alonso Cotta
49. **Ivânia Garavello Forte Freitas - Doutorado em Engenharia Elétrica**
Ação do laser de HeNe na osteogênese. 2001
Orientador(a): Vitor Baranauskas
50. **Marcelo Carvalho Tosin - Doutorado em Engenharia Elétrica**

Síntese e caracterização do silício poroso e de novos revestimentos luminescentes. 2001.

Orientador(a): Vitor Baranauskas

51. **Ricardo Toshinori Yoshioka - Doutorado em Engenharia Elétrica**

Processo de Fabricação de HBT em Camadas de InGaP/GaAs. 13/12/2001

Orientador(a): Jacobus W. Swart

52. **Fábio César Siqueira da Silva - Doutorado em Física**

Formação de Nanoestruturas Magnéticas por Aquecimento Joule. 14/06/2000

Orientador(a): Marcelo Knobel

53. **Li Bin Bin - Doutorado em Engenharia Elétrica**

Contribuição à caracterização do diamante dopado visando futuras aplicações em eletrônica. 2000.

Orientador(a): Vitor Baranauskas

54. **Manoel Cesar Valente Lopes - Doutorado em Engenharia Elétrica**

Estudo da Rugosidade Eletrônica em Capacitores MOS Nanometricos. 07/11/2000

Orientador(a): Vitor Baranauskas

55. **Marcelo Renato Guerino - Doutorado em Engenharia Elétrica**

Efeitos da fotoestimulação com laser no processo inflamatório crônico da cartilagem articular. 2000.

Orientador(a): Vitor Baranauskas

56. **Anna Paula da Silva Sotero - Doutorado em Engenharia Elétrica**

Obtenção e Caracterização de Filmes Finos e Ultra-Finos de Óxido e Oxinitreto de Silício em Sistema "Home-Made" de Plasma Remoto. 09/12/1999

Orientador(a): Peter J. Tatsch e José Alexandre Diniz

57. **Beatriz Luci Fernandes - Doutorado em Engenharia Mecânica**

Técnica de Nanorisco para Análise de Adesão de Revestimento de (HA) Depositada Através de Aspersão por Plasma sobre Liga de

Titânio. 29/07/1999

Orientador(a): Cecilia Amelia de Carvalho Zavaglia

58. **Daniela Zanchet Nelson Cruz - Doutorado em Física**
Nanopartículas de Ouro Passivadas com Tiois: Caracterização Estrutural e Formação de Supercristais Auto-Organizados.
03/09/1999
Orientador(a): Daniel Mario Ugarte
59. **Dahge Chiadin Chang - Doutorado em Engenharia Elétrica**
Estudo da morfologia do silício poroso luminescente com nucleação diamantífera. 1999.
Orientador(a): Vitor Baranauskas
60. **Adriana Silva de Albuquerque - Doutorado em Engenharia Química**
Síntese, Estrutura e Magnetismo de Nanoestruturas Magnéticas: Ferrita NiZn e Ferrita NiZn-Sílica. 16/10/1998
Orientador(a): Edison Bittencourt
61. **Nivaldo Antonio Parizotto - Doutorado em Engenharia Elétrica**
Ação do laser de Hélio-Neônio sobre o processo de reparo tecidual: um estudo do colágeno por microscopia de força atômica e espectroscopia por infravermelho. 1998.
Orientador(a): Vitor Baranauskas
62. **Aldo José Gorgatti Zarbin - Doutorado em Química**
Novos Nanocompósitos Obtidos pelas Interações de Compostos Organometálicos e Polímeros Condutores com Vidros Porosos.
18/04/1997
Orientador(a): Oswaldo Luiz Alves
63. **Luis Guilherme de Carvalho Rêgo - Doutorado em Física**
Propriedades dos Estados de Valência em Nanoestruturas de SiGe/Si. 31/01/1997
Orientador(a): José Antônio Brum
64. **Marcelo Fukui - Doutorado em Engenharia Elétrica**
Estudo tribológico dos pares de atrito em motores ultrasonicos.
1996.
Orientador(a): Vitor Baranauskas

65. **Denise Ribeiro dos Santos - Doutorado em Física**
Estudo da Estrutura e Ordem Local de Partículas Nanocristalinas Usando Técnicas de Difração, Absorção e Espalhamento de Raios-X. 12/07/1996
Orientador(a): Iris Concepción Linares de Torriani
66. **Victor Ciro Solano Reynoso - Doutorado em Física**
Estudo do Controle do Crescimento de Nanoestruturas Semicondutoras do Tipo CdTe e CdTeS em Matrizes Vítreas Borosilicatos. 04/07/1996
Orientador(a): Luiz Carlos Barbosa
67. **Eric Alberto de Mello Fagotto - Doutorado em Física**
Propriedades Eletrônicas de Nanoestruturas Moduladas. 12/12/1995
Orientador(a): José Antônio Brum
68. **Jonder Moraes - Doutorado em Física**
Estudo dos Efeitos do Confinamento Quântico em Partículas Nanoscópicas do Silício. 15/09/1995
Orientador(a): Richard Landers
69. **Cesar Ramos Rodrigues - Doutorado em Engenharia Elétrica**
Síntese e caracterização de diamantes pelo método CVD para aplicações em dispositivos eletrônicos. 1993.
Orientador(a): Vitor Baranauskas
70. **Denio Rebello Arantes - Doutorado em Física**
Sobre a Hidretação e a Difusão de Hidrogênio em Eletrodos de Ni Microcristalino e Nanocristalino. 10/04/1992
Orientador(a): Wolfgang May
71. **Janúncio Afonso de Medeiros Neto - Doutorado em Física**
Síntese e Caracterização de Nanoestrutura do Tipo Cd Te(x) S(1-x) em vidros Borosilicatos. 14/01/1992
Orientador(a): Luiz Carlos Barbosa
72. **Marcelo Knobel - Doutorado em Física**
Estudo do Desenvolvimento de Materiais Nanocristalinos: Magnetismo e Estrutura. 18/12/1992
Orientador(a): Reiko Sato

FINANCIAMENTOS

FAPESP

(são listadas apenas os financiamento de pesquisa)

1997

| **COOPERACAO CNPq-FAPESP (AUXILIO-PESQUISA)** | 1996/06773-4 | IRIS CONCEPCION LINARES DE TORRIANI | | INST FISICA GLEB WATAGHIN/UNICAMP | 1997-02-01 | 1998-11-30 | ESTRUTURA DE MATERIAIS **NANO**CRISTALINOS, MULTICAMADAS E POLIMEROS DENSOS, USANDO ESPALHAMENTO E DIFRACAO DE RAIOS X. | 21160.62 |

| **AUXILIO-PESQUISA** | 1997/01118-0 | OSWALDO LUIZ ALVES | | INST QUIMICA/UNICAMP | 1997-06-01 | 1999-05-31 | **NANO**COMPOSITOS DE COMPOSTOS ORGANOMETALICOS CONTENDO LIGACAO METAL-METAL E MATRIZES POROSAS: PREPARACAO, CARACTERIZACAO E PROPRIEDADES. | 53572.62 |

2000

| **AUXILIO-PESQUISA** | 2000/08807-0 | MARCELO KNOBEL | INST FISICA GLEB WATAGHIN/UNICAMP | 2000-10-01 | 2001-09-30 | MAGNETISMO E TRANSPORTE EM SISTEMAS **NANO**CRISTALINOS | 144359.92 |

2002

| **AUXILIO-PESQUISA** | 2000/09509-3 | CARLOS ALBERTO LUENGO | INST FISICA GLEB WATAGHIN/UNICAMP | 2002-04-01 | 2004-03-31 | DESENVOLVIMENTO E ESTUDO DE **NANO**TUBOS INTERESSANTES PARA ARMAZENAGEM ELETROQUIMICA DE ENERGIA. | 126235.00 |

| **AUXILIO-PESQUISA** | 2001/14215-1 | IVO MILTON RAIMUNDO JUNIOR | INST QUIMICA/UNICAMP | 2002-05-01 | 2004-04-30 | CONSTRUCAO DE UM SISTEMA PARA ANALISE DE GASES COM DETECCAO MULTICANAL E DE UM OPTODO PARA A DETERMINACAO DE CO E SO2 UTILIZANDO UM **NANO**COMPOSITO DE PVG. | 93441.38 |

2003

| **AUXILIO-PESQUISA** | 2001/05739-7 | SARAH ARANA | | INST BIOLOGIA/UNICAMP | 2001-07-01 | 2003-05-31 | ANALISE IN VIVO DA EFICACIA DE ALUMINIO SILICATOS E **MANANO**LIGOSSACARIDEOS ESTERIFICADOS COMO ADSORVENTES DE AFLATOXINA B1 EM REACAO DESTINADA A TRUTA ARCO IRIS (ONCORHYNCHUS MYKISS). | -1.70 |

| **AUXILIO-PESQUISA** | 2002/14140-4 | DOUGLAS SOARES GALVAO |
 INST FISICA GLEB WATAGHIN/UNICAMP | 2003-07-01 | 2005-06-30 | PROPRIEDADES
 ESTRUTURAIS E DE TRANSPORTE EM **NANO**FIOS METALICOS. | 77125.00 |

| **AUXILIO-PESQUISA** | 2003/07370-6 | MONICA ALONSO COTTA |
 INST FISICA GLEB WATAGHIN/UNICAMP | 2003-10-01 | 2005-09-30 | CRESCIMENTO
 E TRANSPORTE EM **NANO**ESTRUTURAS SEMICONDUTORAS. | 184750.00 |

2004

| **AUXILIO-PESQUISA** | 2004/06031-6 | ANA FLAVIA NOGUEIRA |
 INST QUIMICA/UNICAMP | 2004-10-01 | 2006-09-30 | CELULAS FOTOVOLTAICAS
 ORGANICAS E CELULAS DE TIO2 **NANO**CRISTALINO: ALTERNATIVAS DE BAIXO
 CUSTO PARA A GERACAO DE ENERGIA. | 134582.71 |

| **ENSINO PUBLICO (AUXILIO-PESQUISA)** | 2004/05987-9 | MARCELO KNOBEL |
 | INST FISICA GLEB WATAGHIN/UNICAMP | 2004-12-01 | 2005-11-30 | PROJETO DE
 EDUCACAO PARA **NANO**CIENCIA E **NANO**TECNOLOGIA: **NANO**CIRCUS. | 1746598.20 |

| **PROJETO TEMATICO** | 2003/12529-4 | OMAR TESCHKE |
 | INST FISICA GLEB WATAGHIN/UNICAMP | 2004-10-01 | 2008-09-30 | **NANO**TECNOLOGIA:
 FABRICACAO DE **NANO**ESTRUTURAS E ESTRUTURAS SUPRAMOLECULARES EM MEIO
 LIQUIDO. OBSERVACAO DAS ESTRUTURAS FORMADAS E INVESTIGACAO DOS
 PROCESSOS DE FORMACAO DE **NANO**ESTRUTURAS | 2387366.78 |

| **PROJETO TEMATICO** | 2003/07905-7 | LUIZ EDUARDO MOREIRA CARVALHO DE
 OLIVEIRA |
 | INST FISICA GLEB WATAGHIN/UNICAMP | 2004-02-01 |
 2008-01-31 | "FISICA TEORICA DE **NANO**ESTRUTURAS SEMICONDUTORAS: (A)
 PROPRIEDADES ELETRONICAS, OPTICAS E DE IMPUREZAS EM **NANO**ESTRUTURAS
 SEMICONDUTORAS; (B) PROPRIEDADES ELETRONICAS, MAGNETICAS E DE
 TRANSPORTE DE ... | 205980.00 |

| **AUXILIO-PESQUISA** | 2004/01795-8 | NEWTON CESARIO FRATESCHI |
 | INST FISICA GLEB WATAGHIN/UNICAMP | 2004-07-01 | 2006-06-30 | LASER DE
 MICRODISCOS COM REGIOES ATIVAS **NANO**ESTRUTURADAS BOMBEADAS POR
 INJECAO ELETRONICA. | 200252.00 |

| **PROJETO TEMATICO** | 2003/10101-7 | VITOR BARANAUSKAS |
 | FAC ENGENHARIA ELETRICA COMPUTACAO/UNICAMP | 2004-09-01 | 2007-08-31 |
 DESENVOLVIMENTO DE PROTESES DE DIAMANTE E DE MATERIAIS DIAMANTIFEROS
NANOESTRUTURADOS.
 | 1234263.34 |

OUTROS FINANCIAMENTOS

"Rede de Pesquisa em Sistema em Chip, Microsistemas e
 Nanoeletrônica", **Programa Instituto do Milênio**, PADCT, MCT, Proc.
 no. 62.0063/01-7, Período: Dez/01 a Jul./05 – coordenador. Trata-se de
 projeto com participação de 55 pesquisadores doutores, de 7

universidades no país. Jacobus W. Swart – IMEEC.

“Desenvolvimento de Dispositivos MEMs e Tecnologias para Aquisição de Informação sobre Processos e Objetos”, MCT, **Proc. CNPq no. 552057/2002-9**; Período: Dez 02 a Dez 06; Jacobus W. Swart – IMEEC.

“Otimização de Processos de Deposição de Filmes Isolantes de Alta Qualidade e Corrosão por plasma ECR”, **CNPq, Processo no. 476078 / 2003-2**; Período: Set.03 a Ago.05. Jacobus W. Swart – IMEEC.

“Litografia por feixe de Elétrons: Microfabricação, Nanolitografia e escrita direta”, **FINEP (edital Infraestrutura 2003)**, Proc. 2481/03, Período: 03/04 a 03/06. Jacobus W. Swart – IMEEC.

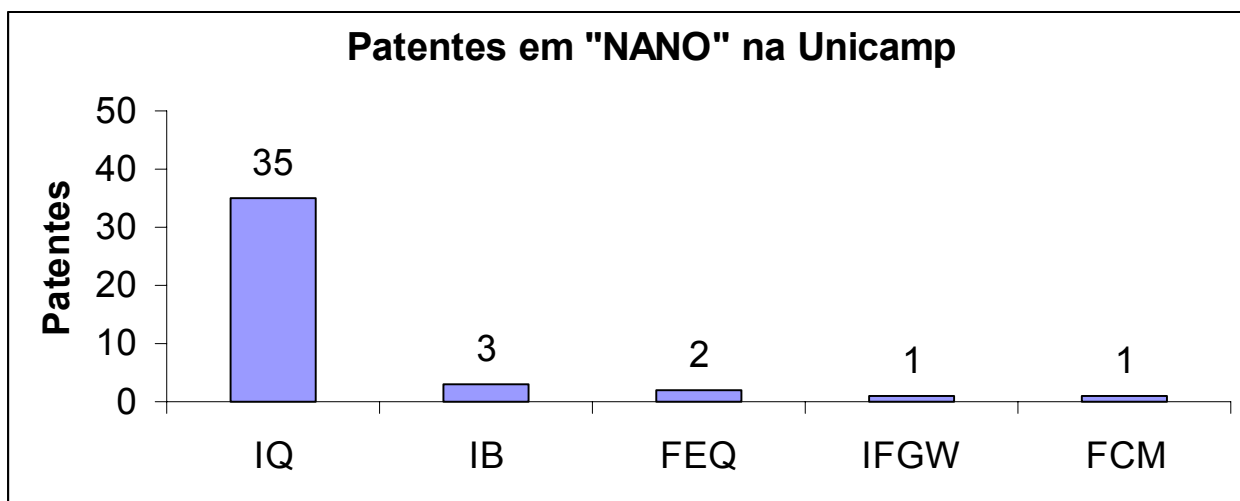
“Microfabricação por Processos de Plasma de Dispositivos de Potência”, **CNPq (Edital CT-Energ 2003)**, **Proc. 401701/03-4**. Período: 07/04 a 06/06. Jacobus W. Swart – IMEEC.

“Nanoestruturas de Silício Dopadas com Elementos das Terras Raras: Controle das propriedades estruturais e eletrônicas de dots e fios. **Projeto de Cooperação Internacional CIAM NSF/CNPq** No. 49.0149/03-0. Leandro Tessler – IMEEC.

PATENTES

Lista de patentes depositadas pela INOVACAMP e levantadas utilizando-se a palavra "nano"

Total de documentos encontrados = 43



25.04.96 – PI9601602-7

PROCESSO DE OBTENÇÃO DE DERIVADOS DE 3-AMINOPROP-1-ENOS E SEPARAÇÃO DE SEUS ISÔMEROS

NÉLSON EDUARDO DURÁN CABALLERO, ROSELI MARIA DE CONTI

LOURENÇO e RONALDO ALOISE PILLI

IQ

08.11.93 – PI9304516-6

MEMBRANA COM CAMADA NÃO POROSA HIDROFÍLICA PARA ULTRAFILTRAÇÃO

SUZANA PEREIRA NUNES e KLAUS-VICTOR PEINEMANN

IQ

30.01.95 – PI9500522-6

PROCESSO DE OBTENÇÃO DE PARTÍCULAS OCAS DE UM METAFOSFATO DUPLO DE ALUMÍNIO E CÁLCIO EM LÁTEX POLIMÉRICOS

FERNANDO GALEMBECK e ELIZABETH FÁTIMA DE SOUZA

IQ

04.08.95 – PI9502467-0

PROCESSO DE OBTENÇÃO DE GAMA-AMINOÁLCOOIS

ANTONIO CLÁUDIO HERRERA BRAGA e MARIA INÊS NOGUEIRA DE CAMARGO HARRIS
IQ

16.04.97 – PI9700552-5

DESFERRIOXAMINA B/Fe (III) MODELO DE FENOLOXIDASE: REDUÇÃO DE OXIGÊNIO PARA RADICAL HIDROXILA
NÉLSON EDUARDO DURÁN CABALLERO e MARIÂNGELA FONTES HONORIO
IQ

23.04.97 – PI9700586-0

PROCESSO DE SÍNTESE DE PARTÍCULAS DE FOSFATOS E POLIFOSFATOS DE FERRO (III), SIMPLES, DUPLOS OU MÚLTIPLOS, NÃO CRISTALINOS
FERNANDO GALEMBECK e ELIZABETH FÁTIMA DE SOUZA
IQ

04.03.98 – PI9801307-6

PROCESSO DE FORMULAÇÃO DE CICLODEXTRINA/VIOLECEÍNA PARA USO COMO ANTIBACTERIANO, ANTITUMORAL, ANTIVIRAL E TRIPANOCIDA
NÉLSON EDUARDO DURÁN CABALLERO, MARIÂNGELA DE BURGOS MARTINS DE AZEVEDO e JOEL BERNABÉ ALDERETE TRIVIÑOS
IQ

23.07.98 – PI9802755-7

PROCESSO DE FORMULAÇÃO DE N, N-DIMETIL-2-PROPEN-1-AMINA ANTI *Mycobacterium tuberculosis*
NÉLSON EDUARDO DURÁN CABALLERO e ANA OLÍVIA DE SOUZA
IQ

23.12.98 – PI9805831-2

ATIVIDADE ANTIMICOBACTERIANA DOS DERIVADOS DE 4-BROMO-BIFENIL
NÉLSON EDUARDO DURÁN CABALLERO e ANA OLÍVIA DE SOUZA
IQ

(1998) - PI9803053-1

PROCESSO DE PREPARAÇÃO DO POLIELETRÓLITO CLORETO DE 3-N-PROPILPIRIDINIO LIGADO A UMA ESTRUTURA DE SILSESQUIOXANO
Y. GUSHIKEM, R.V.S. ALFAYA, E A.A.S. ALFAYA
IQ

10.12.99 – PI9906202-0

PROCESSO DE FORMULAÇÃO DE
CICLODEXTRINA/BRASSINOSTERÓIDES, PARA APLICAÇÃO AGRÍCOLA,
UTILIZADOS COMO HORMÔNIOS VEGETAIS
NÉLSON EDUARDO DURÁN CABALLERO, JOEL BERNABE ALDERETE
TRIVIÑOS, TEREZINHA DE JESUS GARCIA SALVA, MARIANGELA DE
BURGOS MARTINS DE AZEVEDO e MARCO ANTONIO TEIXEIRA ZULLO
IQ

06.09.00 – PI0004238-2

FORMULAÇÕES DE S-NITROSOTIÓIS DOADORES DE ÓXIDO NÍTRICO
INCORPORADOS EM MATRIZES DE POLI(ETILENO GLICOL),
POLI(ETILENO GLICOL)/ÁGUA E POLI(ETILENO GLICOL)/ETILENO
GLICOL, E METODOLOGIA PARA INCORPORAÇÃO DE S-NITROSOTIÓIS
EM MATRIZES DE POLI(ETILENO GLICOL), POLI(ETILENO
GLICOL)/ÁGUAS E POLI(ETILENO GLICOL)/ETILENO GLICOL
MARCELO GANZAROLLI DE OLIVEIRA, AMEDEA BAROZZI SEABRA e
SÍLVIA MIKA SHISHIDO
IQ

22.12.00 – PI0006583-8

OBTENÇÃO DE NOVOS DERIVADOS DE DIBENZOILMETANO QUE
APRESENTAM ATIVIDADE ANTINEOPLÁSICA E DE APLICAÇÃO
POTENCIAL COMO PROTETORES SOLARES
ANITA JOCELYNE MARSAIOLI, ADERBAL FARIAS MAGALHÃES, DÉBORA
NAKAI BILOTI, EVA GONÇALVES MAGALHÃES, FRANCISCO BENEDITO
TEIXEIRA PESSINE, JOÃO ERNESTO DE CARVALHO, LUCIANA KONECNY
KOHN, MÁRCIA APARECIDA ANTONIO e MARISA ALVES NOGUEIRA
IQ

13.03.01 – PI0101013-1

CÉLULA SOLAR DE TiO_2 NANOCRISTALINO SENSIBILIZADO
UTILIZANDO ELETRÓLITO POLIMÉRICO SEM SOLVENTE
MARCO-AURÉLIO DE PAOLI e ANA FLÁVIA NOGUEIRA
IQ

28.03.01 – PI0101346-7

PROCESSO DE APLICAÇÃO DA VIOLACEÍNA COMO
ANTIMICOBACTERIANO
NÉLSON EDUARDO DURÁN CABALLERO e ANA OLÍVIA DE SOUZA
IQ

30.05.01 – PI0102823-5

PROCESSO DE FABRICAÇÃO DE ADESIVO PARA SUPERFÍCIES DE VIDROS, CERÂMICAS, ALVENARIAS E PLÁSTICOS À BASE DE LÁTEX DE BORRACHA NATURAL MODIFICADO POR POLIFOSFATO

FERNANDO GALEMBECK e MÁRCIA MARIA RIPPEL

IQ

03.07.01 – PI0103418-9

METODOLOGIA PARA SÍNTESE DO (+/-) BACLOFENO E ANÁLOGOS

CARLOS ROQUE DUARTE CORREIA

IQ

(2001) PI 0100200-7

PROCESSO DE IMOBILIZAÇÃO DE *SERRATIA RUBIDAEA* CCT 5732 EM ÓXIDO MISTO DE SÍLICA-TITANIA

A.J. MARSAIOLLI, R.A.C. GONÇALVES, J.E. GONÇALVES E Y. GUSHIKEM

26.03.02 – PI0201168-9

FORMULAÇÕES DE S-NITROSOTIÓIS DOADORES DE ÓXIDO NÍTRICO INCORPORADOS EM GÉIS AQUOSOS TÉRMICAMENTE REVERSÍVEIS DE COPOLÍMERO TRIBLOCO DE POLI(ÓXIDO DE ETILENO)-POLI(ÓXIDO DE PROPILENO)-POLI(ÓXIDO DE ETILENO) PLURONIC F-127 OU POLOXAMER 407 E METODOLOGIA DE INCORPORAÇÃO DE S-NITROSOTIÓIS EM MATRIZES DE GÉIS AQUOSOS DE PLURONIC F-127 OU POLOXAMER 407

MARCELO GANZAROLLI DE OLIVEIRA, WATSON LOH, AMEDEA BAROZZI SEABRA e SÍLVIA MIKA SHISHIDO

IQ

19.04.02 – PI0201487-4

FABRICAÇÃO TRIBOQUÍMICA DE NANOCOMPÓSITOS HÍBRIDOS DE POLIÉSTER COM ARGILAS

FERNANDO GALEMBECK e MARIA DE FÁTIMA BRITO SOUZA

IQ/STER-RHODIA

11.09.02 – PI0203947-8

PROCESSO DE OBTENÇÃO DE SENSORES DE PRESSÃO E FONTES DE ELÉTRONS À BASE DE CARBONO E CONTROLADOS POR PRESSÃO, E MATERIAL DE CARBONO OBTIDO PARA CONFECÇÃO DOS DISPOSITIVOS

FRANCISCO DAS CHAGAS MARQUES, CHUN HWA PATRICK POA,
RODRIGO GRIBEL LACERDA e SEMBUKUTTIARACHILAGE RAVI PRADIP
SILVA

IF

25.09.02 – PI0204125-1

PROCESSO DE OBTENÇÃO DE MICRO E NANOESFERAS DE POLI (ε-CAPROLACTONA) NA INCORPORAÇÃO DE ISONIAZIDA, COMPOSTO COM ATIVIDADE ANTIMICOBACTERIANA

NÉLSON EDUARDO DURÁN CABALLERO, AMANDA FERNÁNDEZ DE OLIVEIRA e MARCELO MANTOVANI MARTINIANO DE AZEVEDO

IQ

09.10.02 – PI0204377-7

MEMBRANAS LIPÍDICAS COM BAIXA PERMEABILIDADE A PROTONS

FRANCISCO BENEDITO TEIXEIRA PESSINE, DÉBORA NAKAI BILOTI e MARIA HELENA ANDRADE SANTANA

IQ

09.10.02 – PI0204379-3

PROCESSO DE OBTENÇÃO DE MEMBRANAS DE QUITOSANA COM TAMANHOS DE POROS CONTROLADOS

MARISA MASUMI BEPPU e CESAR COSTAPINTO SANTANA

FEQ

28.01.03 – PI0300183-0

PROCESSO DE APLICAÇÃO DE PRECURSORES SINTÉTICOS ESTEROÍDICOS DE BRASSINOSTERÓIDES, SEUS ANÁLOGOS ESPIROSTÂNICOS E SEUS RESPECTIVOS COMPOSTOS DE INCLUSÃO EM CICLODEXTRINAS COMO AGENTES CITOTÓXICOS E ANTITUMORAIS

MARIANGELA DE BURGOS MARTINS DE AZEVEDO, JOÃO BATISTA FABRIN NETO, MARCO ANTÔNIO TEIXEIRA ZULLO, MARISTELLA CONTE ANAZETTI, NORA MARCELA HAUN QUIRÓS e PATRÍCIA DA SILVA MELO

IQ

24.02.03 – PI0300784-7

PROCESSO DE OBTENÇÃO DE POLIÉSTERES POLINITROSADOS COMO DOADORES POLIMÉRICOS DE ÓXIDO NÍTRICO PARA APLICAÇÕES BIOMÉDICAS

MARCELO GANZAROLLI DE OLIVEIRA e AMEDEA BAROZZI SEABRA

IQ

24.02.03 – PI0300785-5

PROCESSO DE IMOBILIZAÇÃO DE DIÓXIDO DE TITÂNIO SOBRE PEÇAS DE VIDRO UTILIZANDO NOVO MÉTODO ADAPTADO DA TÉCNICA DE MODELAMENTO POR EMULSÃO

OSWALDO LUIZ ALVES, NÉLSON EDUARDO DURÁN CABALLERO, CARLA VERÍSSIMO e SANDRA GOMES DE MORAES

IQ

10.04.03 – PI0301193-3

PRODUÇÃO DE NANOCOMPÓSITOS DE TERMOPLÁSTICOS OU ELASTÔMEROS COM ARGILAS INTERCALADAS OU ESFOLIADAS, A PARTIR DE LATÉXES

FERNANDO GALEMBECK, LEONARDO FONSECA VALADARES, MÁRCIA MARIA RIPPEL e MAURO MAKOTO MURAKAMI

IQ

27.06.03 – PI0302250-1

PROCESSO DE OBTENÇÃO DOS ANESTÉSICOS LEVOBUPIVACAÍNA E (S)-L-MEPIVACAÍNA

RONALDO ALOISE PILLI e LEONARDO SILVA SANTOS

IQ

01.08.03 – PI0303685-5

COMPOSTOS DE INCLUSÃO ENTRE α -, β - e γ -CICLODEXTRINAS E LACTATO DE FERRO II PARA A FORMULAÇÃO DE ADITIVOS AO LEITE APLICADA A SUB-NUTRIÇÃO INFANTIL

YUJI TAKAHATA, ANTONIO CARLOS SENGES LINO e ROSILEY DE ALMEIDA LEITE

IQ

10.10.03 – PI0303984-6

COMPOSTOS DE INCLUSÃO ENTRE β -CICLODEXTRINA E ANESTÉSICOS LOCAIS PARA FORMULAÇÕES ANESTÉSICAS DE LONGA DURAÇÃO

ENEIDA DE PAULA, ANTONIO CARLOS SENGES LINO, DANIELE RIBEIRO DE ARAÚJO, LUCIANA DE MATOS ALVES PINTO, MARCELO BISPO DE JESUS, RAFAEL VANINI e YUJI TAKAHATA

IB

13.11.03 – PI0305589-2

APLICAÇÃO FOTOCATALÍTICA DE TiO_2 SUPORTADO SOBRE PEÇAS DE VIDRO ATRAVÉS DE UM NOVO MÉTODO ADAPTADO DA MODELAGEM POR EMULSÃO

OSWALDO LUIZ ALVES, CARLA VERÍSSIMO, MARIA IZABEL MARETTI SILVEIRA BUENO, NÉLSON EDUARDO DURÁN CABALLERO e SANDRA GOMES DE MORAES

IQ

(2003)PI 0303303-1

COMPOSTO DE SÍLICA-TITANIA-GRAFITE ($\text{SiO}_2/\text{TiO}_2$ /GRAFITE) COMO MATERIAL CERÂMICO ELETRICAMENTE CONDUTOR E PROCESSO SOL-GEL DE OBTENÇÃO DO MESMO

Y. Gushikem, E.V. Benvenutti e E.S. Ribeiro

IQ

13.11.03 – PI0305614-7

PROCESSO DE OBTENÇÃO DE AMINO ALCOÓIS E SUA APLICAÇÃO NA PREPARAÇÃO DOS ANTIBIÓTICOS CLORANFENICOL, FLUORANFENICOL E TIANFENICOL

FERNANDO ANTONIO SANTOS COELHO e CRISTIANO RICARDO MATEUS

IQ

15.12.03 – PI0306245-7

ANESTÉSICOS LOCAIS ENCAPSULADOS EM LIPOSSOMAS PARA FORMULAÇÕES DE LIBERAÇÃO CONTROLADA

ENEIDA DE PAULA, CÍNTIA MARIA SAIA CEREDA, DANIELE RIBEIRO DE ARAÚJO, GIOVANA BRUSCHINI BRUNETTO, LEONARDO FERNANDES FRACETO, LUCIANA DE MATOS ALVES PINTO E RAFAEL VANINI

IB

02.03.04 – PI0400869-3

NOVOS COMPOSTOS DERIVADOS DE 4-ANILINOQUINAZOLINAS COM PROPRIEDADE INIBIDORA DE ADENOSINA-CINASES

KLÉBER GOMES FRANCHINI, MÁRIO JOSÉ ABDALLA SAAD, ROBERTO RITTNER NETO, RODRIGO MIGUEL MARIN e SILVANA APARECIDA ROCCO

FCM

12.04.04 – PI0401217-8

PROCESSO DE PRODUÇÃO DE NANOCOMPÓSITO ORGANO-INORGÂNICO DE NYLON-6 EM α -HIDROGENOFOSFATO DE GERMÂNIO E NANOCOMPÓSITO ORGANO-INORGÂNICO ASSIM OBTIDO

OSWALDO LUIZ ALVES e RICARDO ROMANO

IQ

20.04.04 – PI0401621-1

COMPOSTO DE INCLUSÃO ENTRE β -CICLODEXTRINA E PRAZIQUANTEL PARA TRATAMENTO DE ESQUISTOSSOMOSE

ENEIDA DE PAULA, ANTONIO CARLOS SENGES LINO, LEONARDO FERNANDES FRACETO, LUCIANA DE MATOS ALVES PINTO, MARCELO BISPO DE JESUS e YUJI TAKAHATA

IB

26.04.04 – PI0401977-6

PROCESSO DE REVESTIMENTO DE STENTS PARA IMPLANTE INTRACORONÁRIO COM BLENDAS POLIMÉRICAS HIDROFÓBICAS DOADORAS DE ÓXIDO NÍTRICO

MARCELO GANZAROLLI DE OLIVEIRA, AMEDEA BAROZZI SEABRA e FRANCISCO RAFAEL MARTINS LAURINDO

IQ

02.03.04 – PI0403279-9

PROCESSOS DE ESTABILIZAÇÃO DE BIOAROMAS POR ENCAPSULAÇÃO EM CICLODEXTRINAS E EM LIPOSSOMAS

MARIA HELENA ANDRADE SANTANA, FERNANDA MARTINS e GLÁUCIA MARIA PASTORE

FEQ

28.09.04 – PI0404306-5

NANOPARTÍCULA POLIMÉRICA INCORPORANDO UM COMPOSTO COM PROPRIEDADES FARMACÊUTICAS OU COSMÉTICAS, SEU PROCESSO DE OBTENÇÃO E COMPOSIÇÃO COSMÉTICA OU FARMACÊUTICA CONTENDO AS NANOPARTÍCULAS POLIMÉRICAS

NÉLSON EDUARDO DURÁN CABALLERO e MARCELO MANTOVANI MARTINIANO DE AZEVEDO

IQ

PI0404588-2

PROCESSO DE PRODUÇÃO E UTILIZAÇÃO DE ESPONJAS VEGETAIS DE FONTE RENOVÁVEL PARA A OBTENÇÃO DE RÉPLICAS INORGÂNICAS DE MORFOLOGIA COMPLEXA DE CARBONATO DE CÁLCIO, HIDROXIAPATITA E ÓXIDO DE FERRO, RÉPLICAS INORGÂNICAS ASSIM OBTIDAS E SEUS RESPECTIVOS PÓS

OSWALDO LUIZ ALVES e ITALO ODONE MAZALLI

IQ

28.10.04 – PI0404738-9

PROCESSO DE FABRICAÇÃO DE ADESIVOS PARA METAIS, CONSTITUÍDOS POR RESINAS POLIMÉRICAS PORTADORAS DE NANODOMÍNIOS DIFERENCIADOS ELETRICA E MECANICAMENTE, ADESIVOS ASSIM OBTIDOS E SEU PROCESSO DE APLICAÇÃO FERNANDO GALEMBECK e MARIA DO CARMO VASCONCELOS MEDEIROS DA SILVA

IQ

PUBLICAÇÕES

Os termos de busca utilizados para levantamento dos trabalhos da Unicamp e outras universidades brasileiras (USP, UNESP, UFRJ, UFMG e UFPE) no ISI – Web of Science são listados abaixo.

ATOMIC FORCE MICROSCOPY	NANONET*
BIONANOTECHNOL*	NANOPARTIC*
FINE PARTICLE*	NANOPATTERN*
FULLERENE*	NANOPHAS*
GRANULAR	NANOPHOTON*
NANOBELT*	NANOPOR*
NANOBIOL*	NANOPOWD*
NANOBIOTECHNOL*	NANOROD*
NANOCARBON	NANOSCAL*
NANOCATAL*	NANOSCIE*
NANOCOMPOS*	NANOSCOPI*
NANOCORN*	NANOSIEV*
NANOCRYSTAL*	NANOSIZ*
NANODROPL*	NANOSPHER*
NANODRUG*	NANOSTRUCT*
NANOELECTRON*	NANOTECHNOL*
NANOELETROMECH*	NANOTEMPLA*
NANOENGINE*	NANOTRIBOLO*
NANOFABRIC*	NANOTUB*
NANOFIB*	NANOWIR*
NANOFILT*	QUANTUM-DOT*
NANOHYBR*	QUANTUM-WIRE*
NANOINDENT*	QUASI-CRYSTAL*
NANOLITOG*	SCANNING TUNNELING
NANOMAGNET*	MICROSCOPY
NANOMETER*	SCANNING TUNNELING
NANOMEDIC*	SPECTROSCOPY
NANOMETROL*	

1 - O asterisco no final das palavras indicada "coringa" para busca

2 - GRANULAR -> Todos os trabalhos encontrados usando esta palavra foram verificados para confirmação de se tratarem de nanotecnologia e não serem confundidos com trabalhos de outras áreas, principalmente biologia.

Os 10 trabalhos de "NANO" da UNICAMP mais citados na Web of Science

1. ☒ Makarova, TL; Sundqvist, B; Hohne, R; et al. **124**
[Magnetic carbon](#)
 NATURE, 413 (6857): 716-718 OCT 18 2001

2. ☒ Allia, P; Knobel, M; Tiberto, P; et al. **111**
[Magnetic properties and giant magnetoresistance of melt-spun granular Cu-100-x-Co-x alloys](#)
 PHYSICAL REVIEW B, 52 (21): 15398-15411 DEC 1 1995

3. ☒ Rodrigues, V; Fuhrer, T; Ugarte, D **88**
[Signature of atomic structure in the quantum conductance of gold nanowires](#)
 PHYSICAL REVIEW LETTERS, 85 (19): 4124-4127 NOV 6 2000

4. ☒ Vazquez, M; Knobel, M; Sanchez, ML; et al. **81**
[Giant magnetoimpedance effect in soft magnetic wires for sensor applications](#)
 SENSORS AND ACTUATORS A-PHYSICAL, 59 (1-3): 20-29 APR 1997

5. ☒ Ferrari, EF; daSilva, FCS; Knobel, M **72**
[Influence of the distribution of magnetic moments on the magnetization and magnetoresistance in granular alloys](#)
 PHYSICAL REVIEW B, 56 (10): 6086-6093 SEP 1 1997

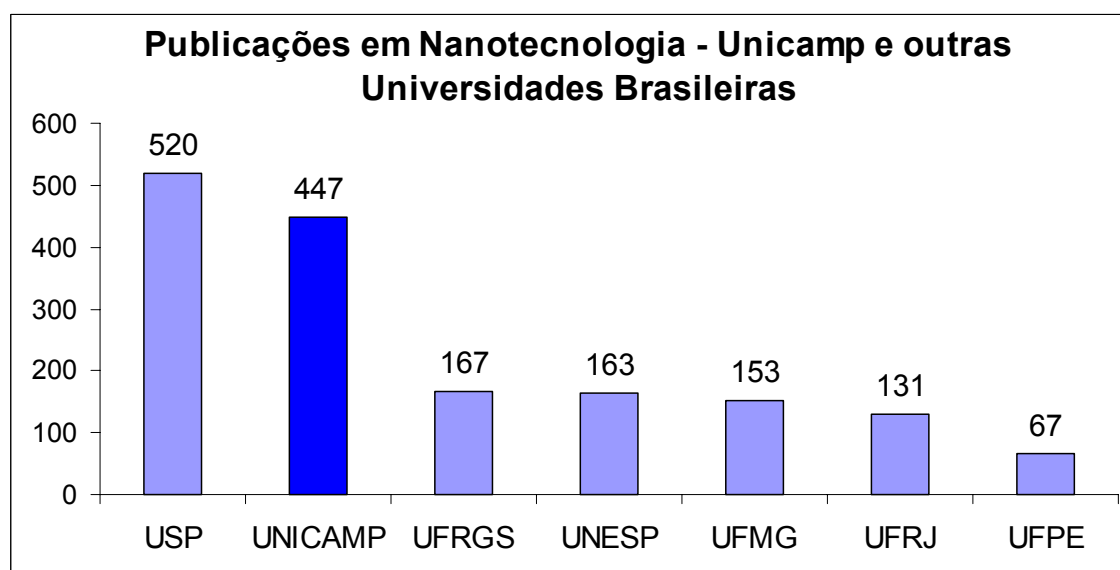
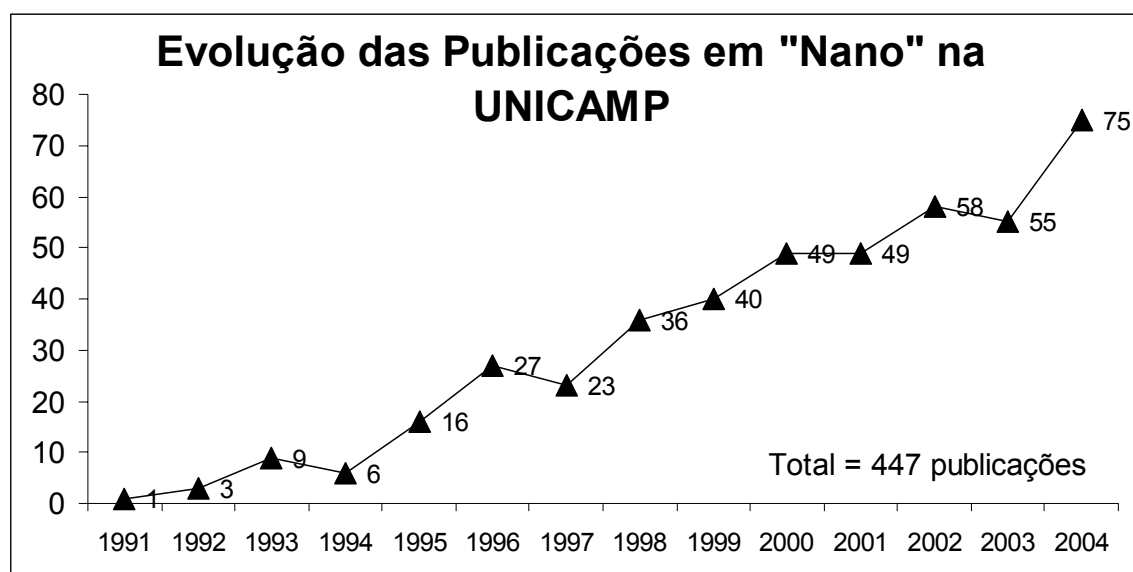
6. ☒ dos Santos, MC; Alvarez, F **55**
[Nitrogen substitution of carbon in graphite: Structure evolution toward molecular forms](#)
 PHYSICAL REVIEW B, 58 (20): 13918-13924 NOV 15 1998

7. ☒ Nogueira, AF; Durrant, JR; De Paoli, MA **53**
[Dye-sensitized nanocrystalline solar cells employing a polymer electrolyte](#)
 ADVANCED MATERIALS, 13 (11): 826-+ JUN 5 2001

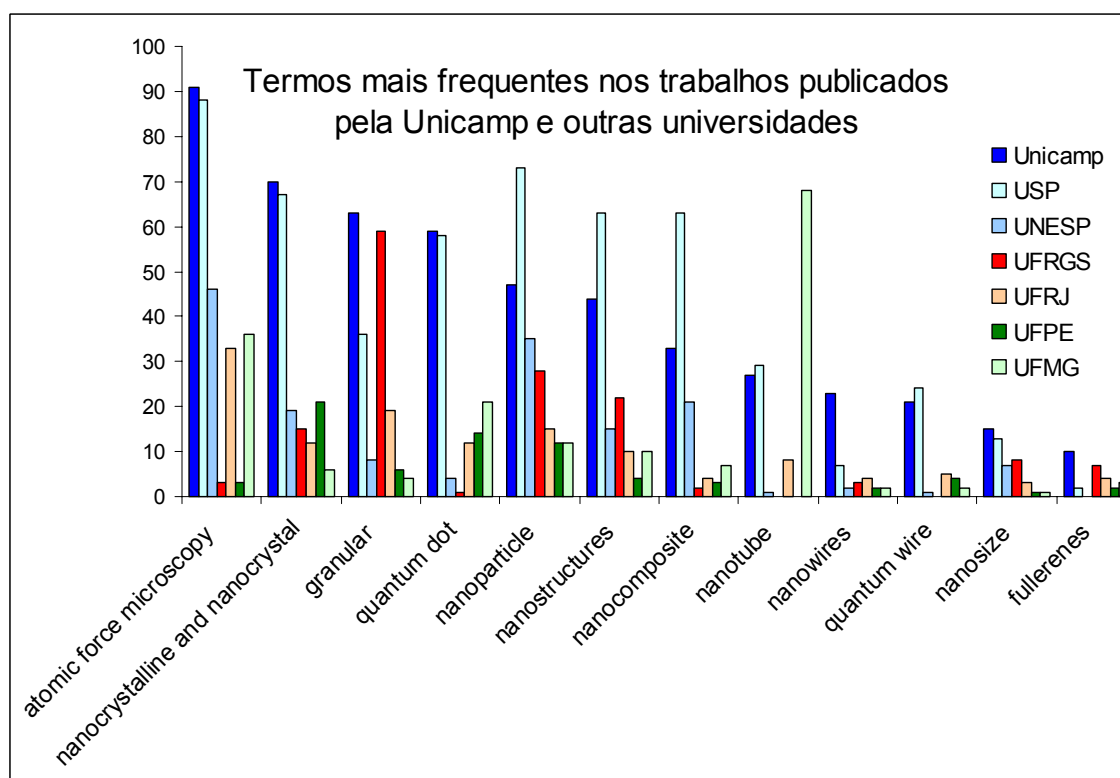
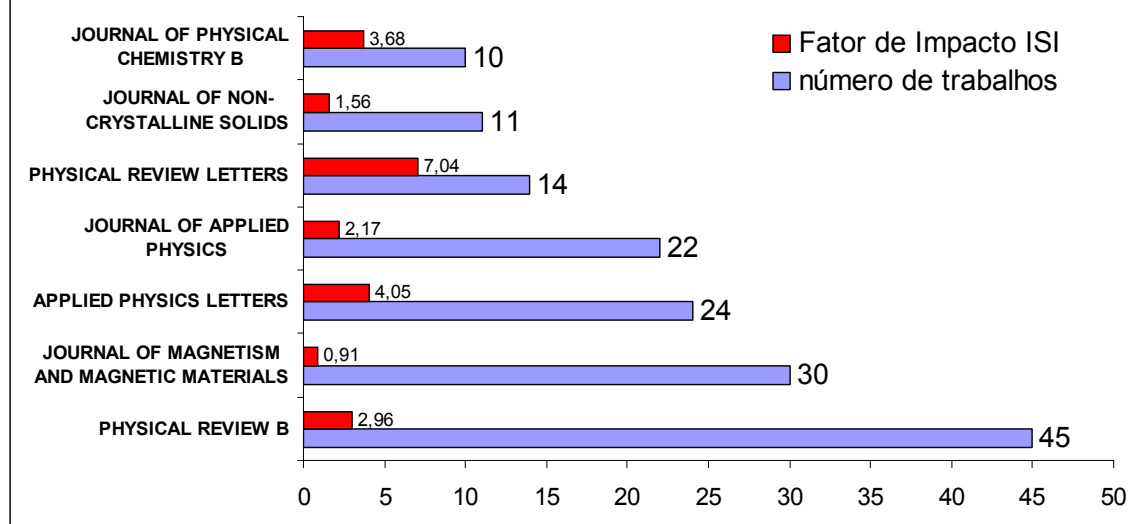
8. ☒ Hawrylak, P; Narvaez, GA; Bayer, M; et al. **53**
[Excitonic absorption in a quantum dot](#)
 PHYSICAL REVIEW LETTERS, 85 (2): 389-392 JUL 10 2000

9. ☒ Kopelevich, Y; Esquinazi, P; Torres, JHS; et al. **52**
[Ferromagnetic- and superconducting-like behavior of graphite](#)
 JOURNAL OF LOW TEMPERATURE PHYSICS, 119 (5-6): 691-702 JUN 2000

10. ☒ Lemos, V; Silveira, E; Leite, JR; et al. **45**
[Evidence for phase-separated quantum dots in cubic InGaN layers from resonant Raman scattering](#)
 PHYSICAL REVIEW LETTERS, 84 (16): 3666-3669 APR 17 2000



Periódicos mais utilizados pela Unicamp em NANO e os fatores de impacto no ISI



Lista de trabalhos publicados – UNICAMP

Busca efetuada na Web of Science utilizando os termos de busca listados acima. Apenas trabalhos completos.

2004

Albuquerque, A.S., Ardisson, J.D., Macedo, W.A.A., Plivelic, T.S., Torriani, I.L., Larrea, J.J. and Saitovitch, E.B. (2004).

Structural and magnetic properties of NiFe₂O₄-SnO₂ nanocomposite.

Journal of Magnetism and Magnetic Materials 272-76: 2211-2213.

Ctr Desenvolvimento Tecnol Nucl, Lab Fis Aplicada, BR-30123970 Belo Horizonte, MG, Brazil. Lab Nacl Luz Sincrotron, BR-13084971 Campinas, SP, Brazil. Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Ctr Brasileiro Pesquisas Fis, BR-22290180 Rio De Janeiro, Brazil.

Albuquerque, AS, Ctr Desenvolvimento Tecnol Nucl, Lab Fis Aplicada, BR-30123970 Belo Horizonte, MG, Brazil.

asa@cdtn.br

Andrade-Neto, A.V., Vasconcellos, A.R., Luzzi, R. and Freire, V.N. (2004).

A Raman scattering-based method to probe the carrier drift velocity in semiconductors: Application to gallium nitride.

Applied Physics Letters 85(18): 4055-4057.

Univ Estadual Feira Santana, Dept Fis, BR-40031460 Feira De Santana, Bahia, Brazil. Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Univ Fed Ceara, Dept Fis, Ctr Ciencias, BR-60455900 Fortaleza, Ceara, Brazil.

Andrade-Neto, AV, Univ Estadual Feira Santana, Dept Fis, Campus Univ, BR-40031460 Feira De Santana, Bahia, Brazil.

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Bahiana, M., Nunes, J.P.P., Altbir, D., Vargas, P. and Knobel, M. (2004).

Ordering effects of the dipolar interaction in lattices of small magnetic particles.

Journal of Magnetism and Magnetic Materials 281(2-3): 372-377.

Univ Santiago Chile, Dept Fis, Santiago, Chile. Univ Fed Rio de Janeiro, Inst Fis, BR-21941972 Rio De Janeiro, Brazil. Univ Tecn Federico Santa Maria, Dept Fis, Valparaiso, Chile. Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

Altbir, D, Univ Santiago Chile, Dept Fis, Avda Ecuador 3493, Santiago, Chile.

daltbir@lauca.usach.cl

Baranauskas, V., Fontana, M., Ceragioli, H.J. and Peterlevitz, A.C. (2004).

Nanostructured diamond and diamond-like materials for application in field-emission devices.

Nanotechnology 15(10): S678-S683.

Univ Estadual Campinas, Dept Semicond Instrumentos & Foton, Fac Engrn Eletr & Computacao, BR-13083970 Campinas, SP, Brazil.

Baranauskas, V, Univ Estadual Campinas, Dept Semicond Instrumentos & Foton, Fac Engrn Eletr & Computacao, Ave Albert Einstein N 400, BR-13083970 Campinas, SP, Brazil.

Baranauskas, V., Fontana, M., Guo, Z.J., Ceragioli, H.J. and Peterlevitz, A.C. (2004).

Analysis of the coagulation of human blood cells on diamond surfaces by atomic force microscopy.

Nanotechnology 15(11): 1661-1664.

Univ Estadual Campinas, Fac Engrn Eletr & Computacao, BR-13083852 Campinas, SP, Brazil.

Baranauskas, V, Univ Estadual Campinas, Fac Engrn Eletr & Computacao, Avenida Albert Einstein N 400, BR-13083852 Campinas, SP, Brazil.

Bleicher, L., Sasaki, J.M., Loski, R.V., Cardoso, L.P., Hayashi, M.A. and Swart, J.W. (2004).

IonRock: software for solving strain gradients of ion-implanted semiconductors by X-ray diffraction measurements and evolutionary programming.

Computer Physics Communications 160: 158-165.

Faculdade de Engenharia Elétrica e de Computação

Braga, S.F., Coluci, V.R., Legoas, S.B., Giro, R., Galva, D.S. and Baughman, R.H. (2004).

Structure and dynamics of carbon nanoscrolls.

Nano Letters 4(5): 881-884.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Univ Texas, NanoTech Inst, Richardson, TX USA. Univ Texas, Dept Chem, Richardson, TX USA.

Braga, SF, Univ Estadual Campinas, Inst Fis Gleb Wataghin, CP 6165, BR-13083970 Campinas, SP, Brazil.

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Brandi, H.S., Latge, A. and Oliveira, L.E. (2004).

Laser effects on donor states in low-dimensional semiconductor heterostructures.

Physical Review B 70(15).

Univ Fed Rio de Janeiro, Inst Fis, BR-21945970 Rio De Janeiro, Brazil.

Inmetro, BR-25250020 Rio De Janeiro, Brazil. Univ Fed Fluminense, Inst Fis, BR-24210340 Rio De Janeiro, Brazil. UNICAMP, Inst Fis, BR-13083970 Campinas, SP, Brazil.

Brandi, HS, Univ Fed Rio de Janeiro, Inst Fis, BR-21945970 Rio De Janeiro, Brazil.

Brandl, A.L., Denardin, J.C., Socolovsky, L.M., Knobel, M. and Allia, P. (2004).

Study of anhyseretic magnetization loops of Co-0.35(SiO₂)(0.65) granular film.

Journal of Magnetism and Magnetic Materials 272-76: 1526-1527.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Politecn Turin, Dipartimento Fis, I-10129 Turin, Italy.

Brandl, AL, Univ Estadual Campinas, Inst Fis Gleb Wataghin, Caixa Postal 6165, BR-13083970 Campinas, SP, Brazil.

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Cabrera, A.F., Torres, C.E.R., Zelis, P.M., Van Raap, M.F., Socolovsky, L.M., Pasquevich, G. and Sanchez, F.H. (2004).

Magnetic study of Fe₆₅Ni₂₀Nb₆B₉ nanocomposite alloys.

Physica B-Condensed Matter 354(1-4): 129-132.

Natl Univ La Plata, CONICET, IFLP, Fac Ciencias Exactas, Dept Fis, RA-1900 La Plata, Argentina. Univ Estadual Campinas, IFGW, Lab Mat & Baías Temp, Campinas, Brazil.

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Cardoso, W.S., Francisco, M.S.P., Lucho, A.M.S. and Gushikem, Y. (2004).

Synthesis and acidic properties of the SiO₂/SnO₂ mixed oxides obtained by the sol-gel process. Evaluation of immobilized copper hexacyanoferrate as an electrochemical probe.

Solid State Ionics 167(1-2): 165-173.

UNICAMP, Inst Quim, Dept Quim Inorgan, BR-13084971 Campinas, SP, Brazil.

Gushikem, Y, UNICAMP, Inst Quim, Dept Quim Inorgan, CP 6154, BR-13084971 Campinas, SP, Brazil.

gushikem@iqm.unicamp.br

Coluci, V.R., Braga, S.F., Legoas, S.B., Galvao, D.S. and Baughman, R.H. (2004).

New families of carbon nanotubes based on graphyne motifs.

Nanotechnology 15(4): S142-S149.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Univ Texas, NanoTech Inst, Richardson, TX USA. Univ Texas, Dept Chem, Richardson, TX USA.

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Coluci, V.R., Galvao, D.S. and Baughman, R.H. (2004).

Theoretical investigation of electromechanical effects for graphyne carbon nanotubes.

Journal of Chemical Physics 121(7): 3228-3237.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Univ Texas, Nanotech Inst, Richardson, TX 75080 USA. Univ Texas, Dept Chem, Richardson, TX 75080 USA.

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Coura, P.Z., Legoas, S.B., Moreira, A.S., Sato, F., Rodrigues, V., Dantas, S.O., Ugarte, D. and Galvao, D.S. (2004).

On the structural and stability features of linear atomic suspended chains formed from gold nanowires stretching.

Nano Letters 4(7): 1187-1191.

Univ Fed Juiz de Fora, ICE, Dept Fis, BR-36036330 Juiz De Fora, MG, Brazil. Lab Nacl Luz Sincrotron, BR-13084971 Campinas, SP, Brazil. Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Ctr Brasileiro Pesquisas Fis, BR-22290180 Rio De Janeiro, Brazil. Univ Fed Amazonas, Dept Fis, BR-69077000 Manaus, Amazonas, Brazil. Dantas, SO, Univ Fed Juiz de Fora, ICE, Dept Fis, BR-36036330 Juiz De Fora, MG, Brazil.

dantas@fisica.ufjf.br

da Fonseca, A.F. and Galvao, D.S. (2004).

Mechanical properties of nanosprings.

Physical Review Letters 92(17).

Rutgers State Univ, Dept Chem, Piscataway, NJ 08854 USA. Univ Sao Paulo, Inst Fis, BR-05315970 Sao Paulo, Brazil. Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

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afonseca@if.usp.br galvao@ifi.unicamp.br

da Silva, E.Z., da Silva, A.J.R. and Fazzio, A. (2004).

Breaking of gold nanowires.

Computational Materials Science 30(1-2): 73-76.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. USP, Inst Fis, BR-05315970 Sao Paulo, Brazil.
da Silva, EZ, Univ Estadual Campinas, Inst Fis Gleb Wataghin, CP 6165, BR-13083970 Campinas, SP, Brazil.
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da Silva, E.Z., Novaes, F.D., da Silva, A.J.R. and Fazzio, A. (2004).

Theoretical study of the formation, evolution, and breaking of gold nanowires.

Physical Review B 69(11).

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Univ Sao Paulo, Inst Fis, BR-05315970 Sao Paulo, Brazil.
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da Silva, M.I.N., Deziderio, S.N., Gonzalez, J.C., Graeff, C.F.O. and Cotta, M.A. (2004).

Synthetic melanin thin films: Structural and electrical properties.

Journal of Applied Physics 96(10): 5803-5807.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, Dept Fis Aplicada, Lab Pesquisa Disposit, BR-13081970 Campinas, SP, Brazil. Univ Sao Paulo, Fac Filosofia Ciencias & Letras Ribeirao Preto, Dept Fis & Matemat, BR-14040901 Sao Paulo, Brazil. Lab Nacl Luz Sincrotron, Sao Paulo, Brazil.
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de Almeida, R.L., Coelho, A.A. and de Lima, O.F. (2004).

Coherence and fluctuation in 3D networks: the superconducting behavior of Nb particles embedded in a Cu matrix.

Physica C-Superconductivity and Its Applications 408-10: 625-627.

Univ Estadual Campinas, IFGW, DFMC, Inst Fis Gleb Wataghin, LMBT, BR-13083970 Campinas, SP, Brazil.
de Almeida, RL, Univ Estadual Campinas, IFGW, DFMC, Inst Fis Gleb Wataghin, LMBT, BR-13083970 Campinas, SP, Brazil.

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de Andrade, M.L. and Atvars, T.D.Z. (2004).

Photophysical study in blends of poly(alkyl methacrylate-co-styrene)/polystyrene.

Macromolecules 37(24): 9096-9108.

Univ Estadual Campinas, Inst Quim, Sao Paulo, Brazil.

Atvars, TDZ, Univ Estadual Campinas, Inst Quim, Sao Paulo, Brazil.

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de Carvalho, H.B., Brasil, N.P., Knobel, M. and Denardin, J.C. (2004).

Magnetotransport and electric properties of CO-SiO₂-Si structure.

Journal of Magnetism and Magnetic Materials 272-76: 1157-1159.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

de Carvalho, HB, Univ Estadual Campinas, Inst Fis Gleb Wataghin, CP 6165, BR-13083970 Campinas, SP, Brazil.

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Denardin, J.C., Knobel, A., Dorneles, L.S. and Schelp, L.F. (2004).

Structural and magnetotransport properties of discontinuous CO/SiO₂ multilayers.

Materials Science and Engineering B-Solid State Materials for Advanced Technology 112(2-3): 120-122.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, Campinas, SP, Brazil.

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Denardin, JC, Univ Estadual Campinas, Inst Fis Gleb Wataghin, CP 6165, Campinas, SP, Brazil.

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Deziderio, S.N., Brunello, C.A., da Silva, M.I.N., Cotta, M.A. and Graeff, C.F.O. (2004).

Thin films of synthetic melanin.

Journal of Non-Crystalline Solids 338-40: 634-638.

USP, DFM, FFCLRP, BR-14040901 Ribeirao Preto, Brazil. UNICAMP, IFGW, BR-13083970 Campinas, SP, Brazil.

Graeff, CFO, USP, DFM, FFCLRP, BR-14040901 Ribeirao Preto, Brazil.
cfograeff@ffclrp.usp.br

do Nascimento, G.M., Constantino, V.R.L., Landers, R. and Temperini, M.L.A. (2004).

Aniline polymerization into montmorillonite clay: A spectroscopic investigation of the intercalated conduct-ling polymer.

Macromolecules 37(25): 9373-9385.

Univ Sao Paulo, Inst Quim, Dept Quim Fundamental, BR-05513970 Sao Paulo, Brazil. Univ Estadual Campinas, Inst Fis Gleb Wataghin, Dept Fis Aplicada, BR-13083970 Campinas, SP, Brazil. Lab Nacl Luz Sincrotron, BR-13084971 Campinas, SP, Brazil.

Temperini, MLA, Univ Sao Paulo, Inst Quim, Dept Quim Fundamental, CP 26-077, BR-05513970 Sao Paulo, Brazil.

Droppa, R., Ribeiro, C.T.M., Zanatta, A.R., dos Santos, M.C. and Alvarez, F. (2004).

Comprehensive spectroscopic study of nitrogenated carbon nanotubes.

Physical Review B 69(4).

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Lab Nacl Luz Sincrotron, BR-13084971 Sao Paulo, Brazil. Univ Sao Paulo, Inst Fis Sao Carlos, BR-13560250 Sao Paulo, Brazil.

Alvarez, F, Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

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Fagan, S.B., Souza, A.G., Lima, J.O.G., Mendes, J., Ferreira, O.P., Mazali, I.O., Alves, O.L. and Dresselhaus, M.S. (2004).

1,2-dichlorobenzene interacting with carbon nanotubes.

Nano Letters 4(7): 1285-1288.

Univ Fed Ceara, Dept Fis, BR-60455900 Fortaleza, Ceara, Brazil. Univ Estadual Campinas, Inst Quim, LQES, BR-13081970 Campinas, SP, Brazil. MIT, Dept Elect Engr & Comp Sci, Cambridge, MA 02139 USA. MIT, Dept Phys, Cambridge, MA 02139 USA.

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solange@fisica.ufc.br

Francisco, M.S.P., Landers, R. and Gushikem, Y. (2004).

Localder Structure and Surface Acidity Properties of a SiO₂/Nb₂O₅ Mixed Oxide Prepared by the Sol-Gel Processing Method.

J. Solid State Chem. 177: 2431.

IQ - UNICAMP

Francisco, M.S.P., Silva, W.C.d., Landers, R., Kholin, Y.V. and Gushikem, Y. (2004).

Surface modification with phosphoric acid of SiO₂/Nb₂O₅ prepared by the sol-gel method: A structural-textural and acid sites studies and an ion exchange model.

Langmuir 20: 8707.

IQ - UNNICAMP

Frederico, D.N.A., da Silva, E.Z., da Silva, A.J.R. and Fazzio, A. (2004).

Effect of impurities on the breaking of Au nanowires.

Surface Science 566: 367-371.

UNICAMP, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

USP, Inst Fis, BR-05315970 Sao Paulo, Brazil.

da Silva, EZ, UNICAMP, Inst Fis Gleb Wataghin, CP 6165, BR-13083970 Campinas, SP, Brazil.

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Gonzalez, J.C., Rodrigues, V., Bettini, J., Rego, L.G.C., Rocha, A.R., Coura, P.Z., Dantas, S.O., Sato, F., Galvao, D.S. and Ugarte, D. (2004).

Indication of unusual pentagonal structures in atomic-size Cu nanowires.

Physical Review Letters 93(12).

Lab Nacl Luz Sincrotron, BR-13084971 Campinas, SP, Brazil. Univ Fed Santa Catarina, Dept Fis, BR-88040900 Florianopolis, SC, Brazil. Univ Dublin Trinity Coll, Dept Phys, Dublin 2, Ireland. Univ Fed Juiz de Fora, ICE, Dept Fis, BR-36036330 Juiz De Fora, MG, Brazil. Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Gonzalez, JC, Lab Nacl Luz Sincrotron, CP 6192, BR-13084971 Campinas, SP, Brazil.
ugarte@lnls.br

Gurden, S.P., Monteiro, V.F., Longo, E. and Ferreira, M.M.C. (2004). Quantitative analysis and classification of AFM images of human hair. **Journal of Microscopy-Oxford** 215: 13-23.

UNICAMP, Dept Chem, BR-13084862 Campinas, SP, Brazil. Univ Fed Sao Carlos, Interdisciplinary Lab Electrochem & Ceram, BR-13565905 Sao Carlos, SP, Brazil.
Ferreira, MMC, UNICAMP, Dept Chem, BR-13084862 Campinas, SP, Brazil.
marcia@iqm.unicamp.br

Gutierrez, H.R., Magalhaes-Paniago, R., Bortoleto, J.R.R. and Cotta, M.A. (2004).

Three-dimensional mapping of the strain anisotropy in self-assembled quantum-wires by grazing incidence x-ray diffraction.

Applied Physics Letters 85(16): 3581-3583.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, DFA LPD, BR-13081970 Campinas, SP, Brazil. Univ Fed Minas Gerais, Dept Fis, BR-30161 Belo Horizonte, MG, Brazil. Lab Nacl Luz Sincrotron, Campinas, Brazil.
Gutierrez, HR, Univ Estadual Campinas, Inst Fis Gleb Wataghin, DFA LPD, CP 6165, BR-13081970 Campinas, SP, Brazil.
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Gutierrez, H.R., Nakabayashi, D., Silva, P.C., Bortoleto, J.R.R., Rodrigues, V., Clerici, J.H., Cotta, M.A. and Ugarte, D. (2004).

Carbon nanotube probe resolution: a quantitative analysis using Fourier Transform.

Physica Status Solidi a-Applied Research 201(5): 888-893.

LNLS, BR-13083970 Campinas, SP, Brazil. UNICAMP, LPD, DFA, Inst Fis Gleb Wataghin, BR-13081970 Campinas, SP, Brazil.

Ugarte, D, LNLS, CP 6192, BR-13083970 Campinas, SP, Brazil.
ugarte@lnls.br

Herrmann, P.S.D., Yoshida, C.M.P., Antunes, A.J. and Marcondes, J.A. (2004).

Surface evaluation of whey protein films by atomic force microscopy and water vapour permeability analysis.

Packaging Technology and Science 17(5): 267-273.

EMBRAPA, Instrumentacao Agropecuaria, BR-13560970 Sao Carlos, SP, Brazil. UNICAMP, Fac Engn Alimentos, BR-13083970 Campinas, SP, Brazil. UNOPAR, Ctr Pesquisa Ciencia & Tecnol Leite Fazenda Expt, Tamarana, PR, Brazil. Clemson Univ, Dept Packaging Sci, Clemson, SC 29634 USA. Herrmann, PSD, EMBRAPA, Instrumentacao Agropecuaria, Rua 15 Novembro 1456, BR-13560970 Sao Carlos, SP, Brazil.
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Iikawa, F., Godoy, M.P.F., Nakaema, M.K.K., Brasil, M., Maialle, M.Z., Degani, M.A., Ribeiro, E., Medeiros-Ribeiro, G., Carvalho, W. and Brum, J.A. (2004).

Optical properties of type-I and II quantum dots.

Brazilian Journal of Physics 34(2B): 555-559.

Univ Estadual Campinas, Inst Fis, Campinas, SP, Brazil. Liceu Vivere, Pirassununga, SP, Brazil. Haras Degani, Itatiba, SP, Brazil. Lab Nacl Luz Sincrotron, Campinas, SP, Brazil.
Iikawa, F, Univ Estadual Campinas, Inst Fis, Campinas, SP, Brazil.

Iikawa, F., Knobel, M., Santos, P.V., Adriano, C., Couto, O.D.D., Brasil, M., Giles, C., Magalhaes-Paniago, R. and Daweritz, L. (2004).

Apparent split between magnetic and structural phase transitions in epitaxial MnAs films.

Journal of Magnetism and Magnetic Materials 272-76: 1154-1156.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Paul Drude Inst Festkorperelekt, D-10117 Berlin, Germany. Lab Nacl Luz Sincrotron, BR-13084971 Campinas, SP, Brazil. Univ Fed Minas Gerais, Dept Fis, BR-30123970 Belo Horizonte, MG, Brazil.

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Ji, J.M., Senter, R.A., Tessler, L.R., Back, D., Winter, C.H. and Coffey, J.L. (2004).

Rare earth doped silicon nanocrystals derived from an erbium amidinate precursor.

Nanotechnology 15(5): 643-647.

Texas Christian Univ, Dept Chem, Ft Worth, TX 76129 USA. IFGW Unicamp, Dept Fis Aplicada, Campinas, SP, Brazil. Wayne State Univ, Dept Chem, Detroit, MI 48202 USA.

Ji, JM, Texas Christian Univ, Dept Chem, Ft Worth, TX 76129 USA.

Knobel, M., Nunes, W.C., Brandl, A.L., Vargas, J.M., Socolovsk, L.M. and Zanchet, D. (2004).

Interaction effects in magnetic granular systems.

Physica B-Condensed Matter 354(1-4): 80-87.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Lab Nacl Luz Sincrotron, BR-13084971 Campinas, SP, Brazil.

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Kurihara, S.T., Fujiwara, S.T., Alfaya, R.V.S., Gushikem, Y., Alfaya, A.A.S. and Castro, S.C.d. (2004).

Cu(II) adsorbed on SiO₂/SnO₂ obtained by the sol-gel processing method: applications as electrochemical sensor for ascorbic acid.

J. Colloid Interface Sci. 274: 579.

IQ - Unicamp

Lee, L.T., Leite, C.A.P. and Galembeck, F. (2004).

Controlled nanoparticle assembly by dewetting of charged polymer solutions.

Langmuir 20(11): 4430-4435.

Univ Estadual Campinas, Inst Quim, BR-13084971 Campinas, SP, Brazil.
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Legoas, S.B., Coluci, V.R., Braga, S.F., Coura, P.Z., Dantas, S. and Galvao, D.S. (2004).

Gigahertz nanomechanical oscillators based on carbon nanotubes.

Nanotechnology 15(4): S184-S189.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Univ Fed Juiz De Fora, Dept Fis, BR-36036330 Juiz De Fora, MG, Brazil.

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Legoas, S.B., Giro, R. and Galvao, D.S. (2004).

Molecular dynamics simulations of C-60 nanobearings.

Chemical Physics Letters 386(4-6): 425-429.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

Legoas, SB, Univ Estadual Campinas, Inst Fis Gleb Wataghin, CP 6165, BR-13083970 Campinas, SP, Brazil.

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Legoas, S.B., Rodrigues, V., Ugarte, D. and Galvao, D.S. (2004).

Contaminants in suspended gold chains: An ab initio molecular dynamics study.

Physical Review Letters 93(21).

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Univ Fed Amazonas, Dept Fis, BR-69077000 Manaus, Amazonas, Brazil. Lab Nacl Luz Sincrotron, BR-13084971 Campinas, SP, Brazil.

Galvao, DS, Univ Estadual Campinas, Inst Fis Gleb Wataghin, CP 6165, BR-13083970 Campinas, SP, Brazil.

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Libardi, J., Grigorov, K., Massi, M., Otani, C., Ravagnani, S.P., Maciel, H.S., Guerino, M. and Ocampo, J.M.J. (2004).

Comparative studies of the feed gas composition effects on the characteristics of DLC films deposited by magnetron sputtering.

Thin Solid Films 459(1-2): 282-285.

UNICAMP, Dept Tecnol Polimeros, FEQ, BR-13083970 Campinas, SP, Brazil. Bulgarian Acad Sci, Inst Elect, BU-1784 Sofia, Bulgaria. LPP, Dept Fis, ITA, CTA, BR-12228900 Sao Jose Dos Campos, SP, Brazil. EAFIT, Medellin, Colombia.

Libardi, J, UNICAMP, Dept Tecnol Polimeros, FEQ, CP 6066, BR-13083970 Campinas, SP, Brazil.

juliano@fis.ita.br

Lucho, A.M.S., Oliveira, E.C., Pastore, H.O. and Gushikem, Y. (2004).

3-n-propylpyridinium chloride silsesquioxane polymer film coated aluminumphosphate and adsorption of cobalt (II) tetrasulphophthalocyanine: An electrocatalytic oxidation study of the oxalic acid.

J. Electroanal. Chem. 573: 55.

IQ- Unicamp

Lucho, A.M.S., Pissetti, F.L. and Gushikem, Y. (2004).

Al₂O₃-coated 3-N-propylpyridinium chloride silsesquioxane polymer film: preparation and electrochemical property study of adsorbed cobalt tetrasulphophthalocyanine.

J. Colloid Interface Sci. 275: 251.

IQ - UNICAMP

Macedo, M.I.F., Osawa, C.C. and Bertran, C.A. (2004).

Sol-gel synthesis of transparent alumina gel and pure gamma alumina by urea hydrolysis of aluminum nitrate.

Journal of Sol-Gel Science and Technology 30(3): 135-140.

Univ Fed Rio de Janeiro, Inst Chem, Ctr Tecnol, BR-21945970 Rio De Janeiro, Brazil. Univ Estadual Campinas, Inst Chem, BR-13083970 Campinas, SP, Brazil.

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Machado, M.O., de Farias, R.F. and Airoidi, C. (2004).

Two different synthetic routes involving the reaction of dodecylamine nicotinamide with crystalline lamellar vanadylphosphate.

Journal of Physics and Chemistry of Solids 65(10): 1697-1703.

Univ Estadual Campinas, Inst Quim, BR-13084971 Campinas, SP, Brazil.

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Madureira, J.R., Maialle, M.Z. and Degani, M.H. (2004).

Franz-Keldysh effect in semiconductor T-wire in applied magnetic field.

Brazilian Journal of Physics 34(2B): 663-665.

Univ Estadual Campinas, Inst Fis, BR-13083970 Campinas, SP, Brazil.

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Madureira, JR, Univ Estadual Campinas, Inst Fis, CP 6165, BR-13083970 Campinas, SP, Brazil.

Madureira, J.R., Schulz, P.A. and Maialle, M.Z. (2004).

Dynamic localization in finite quantum-dot superlattices: A pure ac field effect.

Physical Review B 70(3).

Univ Estadual Campinas, Inst Fis, BR-13083970 Campinas, SP, Brazil.

Liceu Vivere, BR-13635000 Pirassununga, SP, Brazil.

Madureira, JR, Univ Estadual Campinas, Inst Fis, CP 6165, BR-13083970 Campinas, SP, Brazil.

Martins, L.R., Skaf, M.S. and Ladanyi, B.M. (2004).

Solvation dynamics at the water/zirconia interface: Molecular dynamics simulations.

Journal of Physical Chemistry B 108(51): 19687-19697.

Univ Estadual Campinas, Inst Quim, BR-13083970 Campinas, SP, Brazil.

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Mazali, I.O. and Alves, O.L. (2004).

Fabrication of a new porous glass-ceramic monolith using vanadium(III) calcium phosphate glass as precursor.

Journal of the Brazilian Chemical Society 15(4): 464-467.

Univ Estadual Campinas, Inst Quim, BR-13084971 Campinas, SP, Brazil.

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Moshkalyov, S.A., Moreau, A.L.D., Guttierrez, H.R., Cotta, M.A. and Swart, J.W. (2004).

Carbon nanotubes growth by chemical vapor deposition using thin film nickel catalyst.

Materials Science and Engineering B-Solid State Materials for Advanced Technology 112(2-3): 147-153.

Univ Estadual Campinas, Ctr Semicond Components, BR-13083970 Campinas, SP, Brazil. UNICAMP, IFGW, LPD, BR-13083970 Campinas, SP, Brazil.

Moshkalyov, SA, Univ Estadual Campinas, Ctr Semicond Components, CP 6061, BR-13083970 Campinas, SP, Brazil.

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Nogueira, A.F., Longo, C. and De Paoli, M.A. (2004).

Polymers in dye sensitized solar cells: overview and perspectives.

Coordination Chemistry Reviews 248(13-14): 1455-1468.

Inst Quim, Lab Polimeros Condutores & Reciclagem, BR-13084971
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**Otero, R., Hummelink, F., Sato, F., Legoas, S.B., Thstrup, P.,
Laegsgaard, E., Stensgaard, I., Galvao, D.S. and Besenbacher, F.
(2004).**

Lock-and-key effect in the surface diffusion of large organic molecules probed
by STM.

Nature Materials 3(11): 779-782.

Aarhus Univ, Interdisciplinary Nanosci Ctr iNANO, DK-8000 Aarhus C,
Denmark. Aarhus Univ, Dept Phys & Astron, DK-8000 Aarhus, Denmark.
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**Padilha, L.A., Neves, A.A.R., Cesar, C.L., Barbosa, L.C. and Cruz,
C.H.B. (2004).**

Recombination processes in CdTe quantum-dot-doped glasses.

Applied Physics Letters 85(15): 3256-3258.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas,
SP, Brazil.

Padilha, LA, Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-
13083970 Campinas, SP, Brazil.

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**Paniago, R., de Siervo, A., Soares, E.A., Pfannes, H.D. and Landers,
R. (2004).**

Pd growth on Cu(111): stress relaxation through surface alloying?

Surface Science 560(1-3): 27-34.

Univ Fed Minas Gerais, Dept Fis, BR-30123970 Belo Horizonte, MG, Brazil.
Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas,
SP, Brazil.

Paniago, R, Univ Fed Minas Gerais, Dept Fis, CP 702, BR-30123970 Belo Horizonte, MG, Brazil.
paniago@fisica.ufmg.br

Pastore, H.O., Frache, A., Boccaleri, E., Marchese, L. and Camino, G. (2004).

Heat induced structure modifications in polymer-layered silicate nanocomposites.

Macromolecular Materials and Engineering 289(9): 783-786.

Univ Estadual Campinas, Inst Quim, BR-13084971 Campinas, SP, Brazil.

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Pinho, R.O., Radovanovic, E., Torriani, I.L. and Yoshida, I.V.P. (2004).

Hybrid materials derived from divinylbenzene and cyclic siloxane.

European Polymer Journal 40(3): 615-622.

Univ Estadual Campinas, Inst Quim, BR-13083970 Campinas, SP, Brazil.

Univ Estadual Campinas, Inst Fis, BR-13083970 Campinas, SP, Brazil.

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valeria@iqm.unicamp.br

Pucci, A., Tirelli, N., Willneff, E.A., Schroeder, S.L.M., Galembeck, F. and Ruggeri, G. (2004).

Evidence and use of metal-chromophore interactions: luminescence dichroism of terthiophene-coated gold nanoparticles in polyethyleneoriented films.

Journal of Materials Chemistry 14(24): 3495-3502.

Univ Manchester, Sch Pharm, Manchester M13 9PL, Lancs, England. Univ

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Radovanovic, E., Carone, E. and Goncalves, M.C. (2004).

Comparative AFM and TEM investigation of the morphology of nylon6-rubber blends.

Polymer Testing 23(2): 231-237.

Univ Estadual Maringa, Dept Quim, BR-87020900 Maringa, Parana, Brazil.

Univ Estadual Campinas, Inst Quim, BR-13083970 Campinas, SP, Brazil.

Radovanovic, E, Univ Estadual Maringa, Dept Quim, Av Colombo 5790, BR-87020900 Maringa, Parana, Brazil.

Reyes-Betanzo, C., Moshkalyov, S.A., Ramos, A.C.S. and Swart, J.W. (2004).

Mechanisms of Silicon Nitride Etching by ECR Plasmas Using SF₆ and NF₃ Based Gas Mixtures.

Journal of Vacuum Science and Technology A 22: 4.

Faculdade de Engenharia Elétrica e de Computação

Reyes-Betanzo, C., Moshkalyov, S.A. and Swart, J.W. (2004).

Anisotropic etching of silicon for a micromachining application using plasmas of SF₆/CH₄/O-2/Ar and SF₆/CF₄/O-2/Ar.

Revista Mexicana De Fisica 50(2): 203-207.

Inst Nacl Astrofis Opt & Elect, Puebla 72000, Mexico. UNICAMP, Ctr Componentes, BR-13083970 Campinas, SP, Brazil.

Reyes-Betanzo, C, Inst Nacl Astrofis Opt & Elect, Apartado Postal 51, Puebla 72000, Mexico.

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Ribeiro, A.S., Nogueira, V.C., dos Santos, P.F. and De Paoli, M.A. (2004).

Electrochromic properties of poly{3- 12-(p-methoxyphenoxy)dodecyl thiophene}.

Electrochimica Acta 49(14): 2237-2242.

Univ Estadual Campinas, Inst Quim, Lab Polimreos Condutores & Reciclagem, BR-13084971 Campinas, SP, Brazil.

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Santos, J.P., Corpart, P., Wong, K. and Galembeck, F. (2004).

Heterogeneity in styrene-butadiene latex films.

Langmuir 20(24): 10576-10582.

Univ Estadual Campinas, Inst Chem, BR-13083970 Campinas, SP, Brazil.
Rhodia Recherche CRA, F-93308 Aubervilliers, France. Rhodia Brasil Ltda, Phys Chem Lab, BR-13140000 Paulinia, SP, Brazil.

Galembeck, F, Univ Estadual Campinas, Inst Chem, POB 6154, BR-13083970 Campinas, SP, Brazil.

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Schiavon, M.A., Gervais, C., Babonneau, F. and Soraru, G.D. (2004).

Crystallization behavior of novel silicon boron oxycarbide glasses.

Journal of the American Ceramic Society 87(2): 203-208.

UNICAMP, Inst Quim, BR-13015191 Campinas, SP, Brazil. Univ Paris, F-75252 Paris, France. Univ Trent, Dipartimento Ingn Mat, I-38050 Trent, Italy.

Schiavon, MA, UNICAMP, Inst Quim, BR-13015191 Campinas, SP, Brazil.

Silva, M.N.B., Duque, J.G.D., Gouveia, D.X., de Paiva, J.A.C. and Macedo, M.A. (2004).

Novel route for the preparation of nanosized NiFe₂O₄ powders.

Japanese Journal of Applied Physics Part 1-Regular Papers Short Notes & Review Papers 43(8A): 5249-5252.

Fed Univ Sergipe, Dept Phys, BR-49100000 Sao Cristovao, SE, Brazil.

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Souza, A.G., Ferreira, O.P., Santos, E.J.G., Mendes, J. and Alves, O.L. (2004).

Raman spectra in vanadate nanotubes revisited.

Nano Letters 4(11): 2099-2104.

Univ Fed Ceara, Dept Fis, BR-60455900 Fortaleza, Ceara, Brazil. Univ Estadual Campinas, Inst Quim, Lab Quim Estado Solido, BR-13083970 Campinas, SP, Brazil.

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Teles, L.K., Ferreira, L.G., Scolfaro, L.M.R. and Leite, J.R. (2004).

Theoretical study of strain-induced ordering in cubic $\text{In}_x\text{Ga}_{1-x}\text{N}$ epitaxial layers.

Physical Review B 69(24).

Univ Sao Paulo, Inst Fis, BR-05315970 Sao Paulo, Brazil. Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

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jrleite@if.usp.br

Teles, L.K., Marques, M., Ferreira, L.G., Scolfaro, L.M.R. and Leite, J.R. (2004).

Phase separation, effects of biaxial strain, and ordered phase formations in cubic nitride alloys.

Microelectronics Journal 35(1): 53-57.

Univ Sao Paulo, Inst Fis, BR-05315970 Sao Paulo, SP, Brazil. Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

Scolfaro, LMR, Univ Sao Paulo, Inst Fis, CP 66318, BR-05315970 Sao Paulo, SP, Brazil.

Toledo, Lucho, A.M.S. and Gushikem, Y. (2004).

In situ preparation of Co phthalocyanine on a porous silica gel surface and the study of the electrochemical oxidation of oxalic acid.

Material Science 39: 6851.

IQ - Unicamp

**Trasferetti, B.C., Gelamo, R.V., Rouxinol, F.P., de Moraes, M.A.B.,
Goncalves, M.D. and Davanzo, C.U. (2004).**

Nanocomposites of amorphous hydrogenated carbon and siloxane networks produced by PECVD.

Chemistry of Materials 16(4): 567-569.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

de Moraes, MAB, Univ Estadual Campinas, Inst Fis Gleb Wataghin, Caixa Postal 6165, BR-13083970 Campinas, SP, Brazil.

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Uzumaki, E.T., Lambert, C.S. and Zavaglia, C.A.C. (2004). Diamond-like carbon coatings on Ti-13Nb-13Zr alloy produced by plasma immersion for orthopaedic applications. Bioceramics, Vol 16. **254-2**: 435-437.

Watanabe, N., Morais, J., Accione, S.B.B., Morrone, A., Schmidt, J.E. and Alves, M.C.M. (2004).

Electronic, structural, and magnetic properties of cobalt aggregates embedded in polypyrrole.

Journal of Physical Chemistry B 108(13): 4013-4017.

Lab NaCl Luz Sincrotron, BR-13084971 Campinas, Brazil. UNICAMP, Inst Quim, BR-13083970 Campinas, SP, Brazil. Univ Fed Rio Grande Sul, Inst Fis, BR-91501970 Porto Alegre, RS, Brazil.

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Westfahl, H., Caldeira, A.O., Medeiros-Ribeiro, G. and Cerro, M. (2004).

Dissipative dynamics of spins in quantum dots.

Physical Review B 70(19).

ABTLuS, Lab Nacl Luz Sincrotron, BR-13043090 Sao Paulo, Brazil. Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

Westfahl, H, ABTLuS, Lab Nacl Luz Sincrotron, Caixa Postal 6192, BR-13043090 Sao Paulo, Brazil.

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

2003

Barbaroto, P.R., Doi, I. and Ferreira, L.O.S. (2003).

Si-LiG process for inductive meso systems.

Applied Surface Science 212: 406-410.

State Univ Campinas, Sch Elect & Comp Engr, FEEC, BR-13083970 Campinas, SP, Brazil. State Univ Campinas, CCS, BR-13083970 Campinas, SP, Brazil. Natl Synchrotron Light Lab, LNLS, BR-13084971 Campinas, SP, Brazil.

Doi, I, State Univ Campinas, Sch Elect & Comp Engr, FEEC, CP 6101, BR-13083970 Campinas, SP, Brazil.

Barticevic, Z., Pacheco, M., Duque, C.A. and Oliveira, L.E. (2003).

Exciton trapping in interface defects/quantum dots in narrow quantum wells: magnetic-field effects.

Physica B-Condensed Matter 340: 1090-1093.

Univ Tecn Fed Santa Maria, Dept Fis, Valparaiso, Chile. Univ Antioquia, Inst Fis, Medellin, Colombia. Univ Estadual Campinas, Inst Fis, Campinas, SP, Brazil.

Pacheco, M, Univ Tecn Fed Santa Maria, Dept Fis, Casilla 110-V, Valparaiso, Chile.

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Barticevic, Z., Pacheco, M., Duque, C.A. and Oliveira, L.E. (2003).

Magnetic-field effects on excitons trapped in quantum dots/interface defects in narrow quantum wells.

Physical Review B 68(7).

Univ Tecn Federico Santa Maria, Dept Fis, Valparaiso, Chile. Univ Santiago Chile, Dept Fis, Santiago, Chile. Univ Antioquia, Inst Fis, Medellin, Colombia. Univ Estadual Campinas, Inst Fis, Campinas, SP, Brazil. Barticevic, Z, Univ Tecn Federico Santa Maria, Dept Fis, Casilla 110-V, Valparaiso, Chile.

Bettini, J., de Carvalho, M.M.G., Cotta, M.A. and Ugarte, D. (2003).
Role of V/III ratio on atomic ordering and surface morphology of InGaP layers grown by chemical beam epitaxy.
Surface Science 540(1): 129-135.

UNICAMP, IFGW, LPD, BR-13083970 Campinas, SP, Brazil. LME, LNLS, MCT, Campinas, SP, Brazil.
Bettini, J, UNICAMP, IFGW, LPD, CP 6165, BR-13083970 Campinas, SP, Brazil.

Bittencourt, C., Llobet, E., Silva, M.A.P., Landers, R., Nieto, L., Vicaro, K.O., Sueiras, J.E., Calderer, J. and Correig, X. (2003).
Influence of the deposition method on the morphology and elemental composition of SnO₂ films for gas sensing: atomic force and X-ray photoemission spectroscopy analysis.
Sensors and Actuators B-Chemical 92(1-2): 67-72.

Univ Rovira & Virgili, Dept Elect Engn, Tarragona 43007, Spain. Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Univ Sao Paulo, Inst Fis Sao Carlos, BR-16000000 Sao Carlos, SP, Brazil. Univ Rovira & Virgili, Dept Engn Quim, Tarragona 43007, Spain. Univ Politecn Catalunya, Dept Elect Engn, ES-08034 Barcelona, Spain. Llobet, E, Univ Rovira & Virgili, Dept Elect Engn, Campus Sescelades, Avda Paisos Catalans, 26, Tarragona 43007, Spain.

Borchert, H., Talapin, D.V., McGinley, C., Adam, S., Lobo, A., de Castro, A.R.B., Moller, T. and Weller, H. (2003).
High resolution photoemission study of CdSe and CdSe/ZnS core-shell nanocrystals.
Journal of Chemical Physics 119(3): 1800-1807.

Univ Hamburg, Inst Phys Chem, D-20146 Hamburg, Germany. DESY, HASYLAB, D-22603 Hamburg, Germany. Lab Nacl Luz Sincrotron, BR-

13084971 Campinas, SP, Brazil. UNICAMP, IFGW, BR-13083970
Campinas, SP, Brazil.
Borchert, H, Univ Hamburg, Inst Phys Chem, Bundesstr 45, D-20146
Hamburg, Germany.

Bortoleto, J.R.R., Gutierrez, H.R., Cotta, M.A., Bettini, J., Cardoso, L.P. and de Carvalho, M.M.G. (2003).

Spatialdering in InP/InGaP nanostructures.

Applied Physics Letters 82(20): 3523-3525.

UNICAMP, DFA, Inst Fis Gleb Wataghin, BR-13081970 Campinas, SP, Brazil.

Bortoleto, JRR, UNICAMP, DFA, Inst Fis Gleb Wataghin, CP 6165, BR-13081970 Campinas, SP, Brazil.

Cezar, J.C., Tolentino, H.C.N. and Knobel, M. (2003).

Structural, magnetic, and transport properties of Co nanoparticles within a Cu matrix.

Physical Review B 68(5).

LNLS, BR-13084971 Campinas, SP, Brazil. UNICAMP, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

Cezar, JC, LNLS, CP 6192, BR-13084971 Campinas, SP, Brazil.

Coluci, V.R., Braga, S.F., Legoas, S.B., Galvao, D.S. and Baughman, R.H. (2003).

Families of carbon nanotubes: Graphyne-based nanotubes.

Physical Review B 68(3).

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Univ Texas, NanoTech Inst, Richardson, TX USA. Univ Texas, Dept Chem, Richardson, TX 75083 USA.

Coluci, VR, Univ Estadual Campinas, Inst Fis Gleb Wataghin, CP 6165, BR-13083970 Campinas, SP, Brazil.

Costa, C.A.R., Leite, C.A.P. and Galembeck, F. (2003).

Size dependence of Stober silica nanoparticle microchemistry.

Journal of Physical Chemistry B 107(20): 4747-4755.

Univ Estadual Campinas, Inst Quim, UNICAMP, BR-13083970 Campinas, SP, Brazil.

Galembeck, F, Univ Estadual Campinas, Inst Quim, UNICAMP, C Postal 6154, BR-13083970 Campinas, SP, Brazil.

da Silva, A. and Teschke, O. (2003).

Effects of the antimicrobial peptide PGLa on live *Escherichia coli*.

Biochimica Et Biophysica Acta-Molecular Cell Research 1643(1-3): 95-103.

Univ Estadual Campinas, Inst Fis, Lab Nanoestruturas & Interfaces, BR-13083970 Campinas, SP, Brazil. Univ Estadual Campinas, Ctr Biol Mol & Engn Genet, BR-13083970 Campinas, SP, Brazil.

Teschke, O, Univ Estadual Campinas, Inst Fis, Lab Nanoestruturas & Interfaces, BR-13083970 Campinas, SP, Brazil.

da Silva, M.I.N., Gonzalez, J.C. and Russell, P.E. (2003).

Cross-sectional Scanning Probe Microscopy of GaN-based p-n heterostructures.

Microelectronics Journal 34(5-8): 571-573.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13081970 Campinas, SP, Brazil. Lab Nacl Luz Sincrotron, Lab Microscopia Eletron, BR-13084971 Campinas, SP, Brazil. N Carolina State Univ, Analyt Instrumentat Facil, Raleigh, NC 27695 USA.

da Silva, MIN, Univ Estadual Campinas, Inst Fis Gleb Wataghin, Caixa Postal 6165, BR-13081970 Campinas, SP, Brazil.

de Castro, A.R.B. and Zysler, R.D. (2003).

A Monte Carlo model of the MCD behavior of hematite colloids.

Journal of Magnetism and Magnetic Materials 257(1): 51-57.

LNLS Lab Nacl Luz Sincrotron, UV Instrumentat, BR-13083970 Campinas, SP, Brazil. Comis Nacl Energia Atom, Ctr Atom Bariloche, RA-8400 San Carlos De Bariloche, Rio Negro, Argentina. Univ Estadual Campinas, IFGW, BR-13083970 Campinas, SP, Brazil.

de Castro, ARB, LNLS Lab Nacl Luz Sincrotron, UV Instrumentat, CP 6192, BR-13083970 Campinas, SP, Brazil.

Denardin, J.C., Knobel, M., Socolovsky, L.M., Brandl, A.L. and Zhang, X.X. (2003).

Modifying the nanostructure of Co SiO₂ samples by controlled annealing.
Ieee Transactions on Magnetics 39(5): 2767-2769.

UNICAMP, IFGW, Campinas, SP, Brazil. Hong Kong Univ Sci & Technol, Dept Phys, Kowloon, Hong Kong, Peoples R China. Hong Kong Univ Sci & Technol, Inst Nanosci & Technol, Kowloon, Hong Kong, Peoples R China. Denardin, JC, UNICAMP, IFGW, Campinas, SP, Brazil.

Denardin, J.C., Knobel, M., Zhang, X.X. and Pakhomov, A.B. (2003).

Giant Hall effect in superparamagnetic granular films.
Journal of Magnetism and Magnetic Materials 262(1): 15-22.

Univ Estadual Campinas, IFGW, BR-13083970 Campinas, SP, Brazil. Hong Kong Univ Sci & Technol, Dept Phys, Kowloon, Hong Kong, Peoples R China. Hong Kong Univ Sci & Technol, INST, Kowloon, Hong Kong, Peoples R China. Univ Washington, Dept Mat Sci, Seattle, WA 98195 USA. Knobel, M, Univ Estadual Campinas, IFGW, CP 6165, BR-13083970 Campinas, SP, Brazil.

Denardin, J.C., Pakhomov, A.B., Brandl, A.L., Socolovsky, L.M., Knobel, M. and Zhang, X.X. (2003).

Blocking phenomena in granular magnetic alloys through magnetization, Hall effect, and magnetoresistance experiments.
Applied Physics Letters 82(5): 763-765.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Univ Washington, Dept Mat Sci & Engn, Seattle, WA 98195 USA. Hong Kong Univ Sci & Technol, Dept Phys, Kowloon, Hong Kong, Peoples R China. Hong Kong Univ Sci & Technol, Inst Nanosci & Technol, Kowloon, Hong Kong, Peoples R China. Denardin, JC, Univ Estadual Campinas, Inst Fis Gleb Wataghin, Caixa Postal 6165, BR-13083970 Campinas, SP, Brazil.

Diniz, J.A., Doi, I. and Swart, J.W. (2003).

Insulators Obtained by Electron Cyclotron Resonance Plasmas on Si GaAs.
Materials Characterization 50: 135-147.

Faculdade de Engenharia Elétrica e de Computação

Duarte, C.A., da Silva, E.C.F., Quivy, A.A., da Silva, M.J., Martini, S., Leite, J.R., Meneses, E.A. and Lauretto, E. (2003).

Influence of the temperature on the carrier capture into self-assembled InAs/GaAs quantum dots.

Journal of Applied Physics 93(10): 6279-6283.

Univ Sao Paulo, Inst Fis, BR-05315970 Sao Paulo, Brazil. Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-17083970 Campinas, SP, Brazil. Duarte, CA, Univ Sao Paulo, Inst Fis, CP 66318, BR-05315970 Sao Paulo, Brazil.

Eckelt, J., Loske, S., Goncalves, M.C. and Wolf, B.A. (2003).

Formation of micro- and nano-spheric particles (filter dust) during the preparation of cellulose acetate membranes.

Journal of Membrane Science 212(1-2): 69-74.

Univ Mainz, Inst Chem Phys, D-55099 Mainz, Germany. Univ Estadual Campinas, Inst Chem, BR-13083970 Campinas, SP, Brazil. Wolf, BA, Univ Mainz, Inst Chem Phys, Jakob Welder Weg 13, D-55099 Mainz, Germany.

Garcia, N.L. and Motta, M.R. (2003).

Perfect simulation for a stationary silo with absorbing walls.

Methodology and Computing in Applied Probability 5(1): 109-121.

Univ Estadual Campinas, UNICAMP, Dept Estatist, IMECC, BR-13081970 Campinas, SP, Brazil.

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Gutierrez, H.R., Cotta, M.A. and de Carvalho, M.M.G. (2003).

Vertical stacks of InAs quantum wires in an InP matrix.

Journal of Crystal Growth 254(1-2): 1-5.

UNICAMP, DFA LPD, Inst Fis Gleb Wataghin, BR-13081970 Campinas, SP, Brazil.

Gutierrez, HR, UNICAMP, DFA LPD, Inst Fis Gleb Wataghin, CP 6165, BR-13081970 Campinas, SP, Brazil.

Herbst, M.H. and Dias, G.H.M. (2003).

Chemical reactivity of solid PtnC60 towards carbon monoxide.

Journal of Physics and Chemistry of Solids 64(12): 2423-2428.

Univ Estadual Campinas, Inst Quim, BR-13873970 Campinas, SP, Brazil.

Herbst, MH, UFRJ, Inst Fis, RJ CP 68528, BR-21945970 Rio De Janeiro, Brazil.

Karthikeyan, C.S., Schossig, M., Radovanovic, E., Goncalves, M.C., Wittich, H., Schulte, K. and Nunes, S.P. (2003).

Aligned Nafion (R) nanocomposites: Preparation and morphological characterization.

Macromolecular Materials and Engineering 288(2): 175-180.

GKSS, Res Ctr, D-21502 Geesthacht, Germany. Univ Estadual Campinas, BR-13083970 Campinas, SP, Brazil. Tech Univ Hamburg, D-21073 Hamburg, Germany.

Nunes, SP, GKSS, Res Ctr, D-21502 Geesthacht, Germany.

Kellermann, G. and Craievich, A.F. (2003).

Isothermal aggregation of Bi atoms embedded in a soda borate glass: Coarsening of liquid nanodroplets and atomic diffusion.

Physical Review B 67(8).

Lab Nacl Luz Sincrotron, BR-13084971 Campinas, SP, Brazil. UNICAMP, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. USP, Inst Fis, BR-05315970 Sao Paulo, Brazil.

Kellermann, G, Lab Nacl Luz Sincrotron, CP 6192, BR-13084971 Campinas, SP, Brazil.

Kretly, L.C., Almeida, A.F.L., Oliveira, R.S., Sasaki, J.M. and Sombra, A.S. (2003).

Electrical and Optical Properties of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ (CCTO) Substrates for Microwave Devices and Antennas.

Microwave and Optical Technology Letters 39: 145-150.

FEEC

Lee, L.T., da Silva, M.D. and Galembeck, F. (2003).

Dewetting patterns of thin films of charged polymer solutions.

Langmuir 19(17): 6717-6722.

Univ Estadual Campinas, Inst Quim, BR-13083970 Campinas, SP, Brazil.

CEA Saclay, Lab Leon Brillouin, F-91191 Gif Sur Yvette, France.

Lee, LT, Univ Estadual Campinas, Inst Quim, POB 6154, BR-13083970 Campinas, SP, Brazil.

Legoas, S.B., Coluci, V.R., Braga, S.F., Coura, P.Z., Dantas, S.O. and Galvao, D.S. (2003).

Molecular-dynamics simulations of carbon nanotubes as gigahertz oscillators.

Physical Review Letters 90(5).

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Univ Fed Juiz de Fora, ICE, Dept Fis, BR-36036330 Juiz De Fora, MG, Brazil.

Legoas, SB, Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

Longo, C. and De Paoli, M.A. (2003).

Dye-sensitized solar cells: A successful combination of materials.

Journal of the Brazilian Chemical Society 14(6): 889-901.

Univ Estadual Campinas, Inst Quim, BR-13084971 Campinas, SP, Brazil.

De Paoli, MA, Univ Estadual Campinas, Inst Quim, CP 6154, BR-13084971 Campinas, SP, Brazil.

Madureira, J.R., Degani, M.H. and Maialle, M.Z. (2003).

Nonlinear optical absorption of semiconductor quantum wires:

Photoexcitation dynamical effects.

Physical Review B 68(16).

Univ Estadual Campinas, Inst Fis, BR-13083970 Campinas, SP, Brazil.
 Haras Degani, BR-13250000 Itatiba, SP, Brazil. Liceu Vivere, BR-13635000
 Pirassununga, SP, Brazil.
 Madureira, JR, Univ Estadual Campinas, Inst Fis, CP 6165, BR-13083970
 Campinas, SP, Brazil.

Makarova, T.L., Han, K.H., Esquinazi, P., da Silva, R.R., Kopelevich, Y., Zakharova, I.B. and Sundqvist, B. (2003).

Magnetism in photopolymerized fullerenes.

Carbon 41(8): 1575-1584.

Umea Univ, Dept Expt Phys, S-90187 Umea, Sweden. AF Ioffe Phys Tech
 Inst, St Petersburg 194021, Russia. Univ Leipzig, Dept Superconduct &
 Magnetism, Inst Expt Phys 2, D-04103 Leipzig, Germany. UNICAMP, Inst
 Fis, BR-13083970 Campinas, SP, Brazil. St Petersburg State Polytech Univ,
 St Petersburg 195251, Russia.
 Makarova, TL, Umea Univ, Dept Expt Phys, S-90187 Umea, Sweden.

Makarova, T.L., Sundqvist, B. and Kopelevich, Y. (2003).

Structural studies of magnetic polymerized fullerene.

Synthetic Metals 137(1-3): 1335-1337.

Ioffe PTI, St Petersburg 194021, Russia. Umea Univ, S-90187 Umea,
 Sweden. UNICAMP, Sao Paulo, Brazil.
 Makarova, TL, Ioffe PTI, St Petersburg 194021, Russia.

Mendoza, M. and Schulz, P.A. (2003).

Effects of a perturbative spike in open quantum dots: suppression of the
 conductance and discrete states imaging.

Microelectronics Journal 34(5-8): 499-502.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, DFMC, BR-13083970
 Campinas, SP, Brazil.
 Mendoza, M, Univ Estadual Campinas, Inst Fis Gleb Wataghin, DFMC, Cx P
 6165, BR-13083970 Campinas, SP, Brazil.

Mendoza, M. and Schulz, P.A. (2003).

Wave-function mapping conditions in open quantum dot structures.

Physical Review B 68(20).

UNICAMP, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

Mendoza, M, UNICAMP, Inst Fis Gleb Wataghin, Caixa Postal 6165, BR-13083970 Campinas, SP, Brazil.

Novaes, F.D., da Silva, A.J.R., da Silva, E.Z. and Fazzio, A. (2003).

Effect of impurities in the large Au-Au distances in gold nanowires.

Physical Review Letters 90(3).

Univ Sao Paulo, Inst Fis, BR-05315970 Sao Paulo, Brazil. UNICAMP, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

Novaes, FD, Univ Sao Paulo, Inst Fis, CP 66318, BR-05315970 Sao Paulo, Brazil.

Pereira, R.D., da Silva, M.I.N. and Cotta, M.A. (2003).

Adhesion forces measured between a calcium blocker drug and its receptor in living cells using atomic force microscope.

Febs Letters 552(2-3): 155-159.

Inst Biomed Sci, BR-13084480 Campinas, SP, Brazil. Univ Estadual

Campinas, Inst Fis Gleb Wataghin, BR-13081970 Campinas, SP, Brazil.

Pereira, RD, Inst Biomed Sci, Rua Jean Nassif Mokarzel 174, BR-13084480 Campinas, SP, Brazil.

Poa, C.H.P., Lacerda, R.G., Cox, D.C., Marques, F.C. and Silva, S.R.P. (2003).

Effects of stress on electron emission from nanostructured carbon materials.

Journal of Vacuum Science & Technology B 21(4): 1710-1714.

Univ Surrey, Adv Technol Inst, Sch Elect & Phys Sci, Guildford GU2 7XH, Surrey, England. Univ Surrey, Adv Technol Inst, Sch Elect & Phys Sci, Guildford GU2 7XH, Surrey, England. Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

Poa, CHP, Univ Surrey, Adv Technol Inst, Sch Elect & Phys Sci, Guildford GU2 7XH, Surrey, England.

Reyes-Betanzo, C., Moshkalyov, S.A. and Swart, J.W. (2003).

Silicon Nitride Etching in High- and Low-density Plasmas using SF₆ /O₂/N₂ Mixtures.

Journal of Vacuum Science and Technology A 21: 461-469.

Faculdade de Engenharia Elétrica e de Computação

Rippel, M.M., Lee, L.T., Leite, C.A.P. and Galembeck, F. (2003).

Skim and cream natural rubber particles: colloidal properties, coalescence and film formation.

Journal of Colloid and Interface Science 268(2): 330-340.

Univ Estadual Campinas, Inst Quim, BR-13083970 Campinas, SP, Brazil.

CEA Saclay, Lab Leon Brillouin, CNRS, Gif Sur Yvette, France.

Lee, LT, Univ Estadual Campinas, Inst Quim, POB 6154, BR-13083970 Campinas, SP, Brazil.

Ronconi, C.M. and Alves, O.L. (2003).

Structural evolution and optical properties of Cd₂Nb₂O₇ films prepared by metallo-organic decomposition.

Thin Solid Films 441(1-2): 121-129.

UNICAMP, Inst Quim, Lab Quim Estado Solido, LQES, BR-13083862 Campinas, SP, Brazil.

Alves, OL, UNICAMP, Inst Quim, Lab Quim Estado Solido, LQES, CP 6154, BR-13083862 Campinas, SP, Brazil.

Sabadini, E., Cosgrove, T. and Taweepreda, W. (2003).

Complexation between alpha-cyclodextrin and poly(ethylene oxide) physically adsorbed on the surface of colloidal silica.

Langmuir 19(11): 4812-4816.

Univ Bristol, Sch Chem, Bristol BS8 1TS, Avon, England. Univ Estadual Campinas, Inst Quim, BR-13084862 Campinas, SP, Brazil.

Sabadini, E, Univ Bristol, Sch Chem, Cantocks Close, Bristol BS8 1TS, Avon, England.

Santos, J.V.A., Macedo, M.A., Cunha, F., Sasaki, J.M. and Duque, J.G.S. (2003).

BaFe₁₂O₁₉ thin film grown by an aqueous sol-gel process.

Microelectronics Journal 34(5-8): 565-567.

Fed Univ Sergipe, Dept Phys, Mat Proc & Characterizat Lab, BR-49100000 Sao Cristovao, SE, Brazil. Univ Fed Ceara, Ctr Ciencias Exatas, Dept Fis, BR-60455900 Fortaleza, Ceara, Brazil. UNICAMP, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

Macedo, MA, Fed Univ Sergipe, Dept Phys, Mat Proc & Characterizat Lab, BR-49100000 Sao Cristovao, SE, Brazil.

Schultz, D., Droppa, R., Alvarez, F. and dos Santos, M.C. (2003).

Stability of small carbon-nitride heterofullerenes.

Physical Review Letters 90(1).

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

dos Santos, MC, Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

Socolovsky, L.M., Denardin, J.C., Brandl, A.L. and Knobel, M. (2003).

Magnetotransport, magnetic, and structural properties of TM-SiO₂ (TM=Fe, Co, Ni) granular alloys.

Materials Characterization 50(2-3): 117-121.

Univ Estadual Campinas, IFGW, BR-13083970 Campinas, SP, Brazil.

Socolovsky, LM, Univ Estadual Campinas, IFGW, POB 6165, BR-13083970 Campinas, SP, Brazil.

Socolovsky, L.M., Denardin, J.C., Brandl, A.L., Knobel, M. and Zhang, X.X. (2003).

Structural and magnetic properties of TM-SiO₂ (TM = Fe, Co, Ni) films.

Journal of Magnetism and Magnetic Materials 262(1): 102-106.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, Dept Fis Mat Condensada, Lab Mat & Baixas Temp, BR-13083970 Campinas, SP, Brazil.

Hong Kong Univ Sci & Technol, Dept Phys, Kowloon, Hong Kong, Peoples R

China. Hong Kong Univ Sci & Technol, Inst Nanosci & Technol INST,
Kowloon, Hong Kong, Peoples R China.
Socolovsky, LM, Univ Estadual Campinas, Inst Fis Gleb Wataghin, Dept Fis
Mat Condensada, Lab Mat & Baixas Temp, CP 6165, BR-13083970
Campinas, SP, Brazil.

Socolovsky, L.M. and Sanchez, F.H. (2003).

Thermal scanning studies of percolated Fe-Cu granular alloys.

Materials Characterization 50(2-3): 123-125.

Univ Estadual Campinas, IFGW, DFMC, LMBT, BR-13083970 Campinas, SP,
Brazil. Natl Univ La Plata, Inst Fis La Plata, Dept Fis, Lab Espectroscopia
Nucl & Interacc Hiperfinas, RA-1900 La Plata, Argentina.
Socolovsky, LM, Univ Estadual Campinas, IFGW, DFMC, LMBT, CP 6165,
BR-13083970 Campinas, SP, Brazil.

Teixeira-Neto, E., Kaupp, G. and Galembeck, F. (2003).

Latex particle heterogeneity and clustering in films.

Journal of Physical Chemistry B 107(51): 14255-14260.

Univ Estadual Campinas, UNICAMP, Inst Quim, BR-13084971 Campinas,
SP, Brazil. Univ Oldenburg, D-26111 Oldenburg, Germany.
Galembeck, F, Univ Estadual Campinas, UNICAMP, Inst Quim, POB 6154,
BR-13084971 Campinas, SP, Brazil.

**Teles, L.K., Ferreira, L.G., Leite, J.R., Scolfaro, L.M.R., Kharchenko,
A., Husberg, O., As, D.J., Schikora, D. and Lischka, K. (2003).**

Strain-induced ordering in $\text{In}_x\text{Ga}_{1-x}\text{N}$ alloys.

Applied Physics Letters 82(24): 4274-4276.

Univ Sao Paulo, Inst Fis, BR-05315970 Sao Paulo, Brazil. Univ Paderborn,
FB Phys 6, D-33095 Paderborn, Germany. Univ Estadual Campinas, Inst
Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.
Leite, JR, Univ Sao Paulo, Inst Fis, Caixa Postal 66318, BR-05315970 Sao
Paulo, Brazil.

Teschke, O. and de Souza, E.F. (2003).

Electrostatic response of hydrophobic surface measured by atomic force microscopy.

Applied Physics Letters 82(7): 1126-1128.

UNICAMP, IFGW, Nanostruct & Interfaces Lab, BR-13081970 Campinas, SP, Brazil. Pontificia Univ Catolica Campinas, BR-13020904 Campinas, SP, Brazil.

Teschke, O, UNICAMP, IFGW, Nanostruct & Interfaces Lab, BR-13081970 Campinas, SP, Brazil.

Teschke, O. and de Souza, E.F. (2003).

Hydrophobic surfaces probed by atomic force microscopy.

Langmuir 19(13): 5357-5365.

UNICAMP, IFGW, DFA, Nanostruct & Interfaces Lab, BR-13083970 Campinas, SP, Brazil. Pontificia Univ Catolica Campinas, Inst Ciencias Biol & Quim, BR-13020904 Campinas, SP, Brazil.

Teschke, O, UNICAMP, IFGW, DFA, Nanostruct & Interfaces Lab, Caixa Postal 6165, BR-13083970 Campinas, SP, Brazil.

Teschke, O. and de Souza, E.F. (2003).

Measurements of long-range attractive forces between hydrophobic surfaces and atomic force microscopy tips.

Chemical Physics Letters 375(5-6): 540-546.

Univ Estadual Campinas, IFGW, NanoStruct & Interfaces Lab, BR-13083970 Campinas, SP, Brazil. Pontificia Univ Catolica Campinas, Inst Ciencias Biol & Quim, BR-13020904 Campinas, SP, Brazil.

Teschke, O, Univ Estadual Campinas, IFGW, NanoStruct & Interfaces Lab, BR-13083970 Campinas, SP, Brazil.

Teschke, O. and de Souza, E.F. (2003).

Molecular arrangements of self-assembled surfactant films: Characterization from atomic force microscopy data.

Physical Review E 68(3).

Univ Estadual Campinas, IFGW, Nanostruct Lab, BR-13081970 Campinas, SP, Brazil. Pontificia Univ Catolica Campinas, Fac Quim, CEATEC, BR-13086900 Campinas, SP, Brazil.

Teschke, O, Univ Estadual Campinas, IFGW, Nanostruct Lab, BR-13081970 Campinas, SP, Brazil.

Teschke, O., Kleinke, M.U., Dotto, M.E.R., Soares, D.M., Knobel, M. and de Souza, E.F. (2003).

Magnetic force images of nanomagnetic domains taken with platinum-coated tips.

Journal of Applied Physics 94(1): 626-632.

UNICAMP, NanoStruct & Interfaces Lab, Inst Fis, BR-13083970 Campinas, SP, Brazil. Pontificia Univ Catolica Campinas, Inst Ciencias Biol & Quim, BR-13020904 Campinas, SP, Brazil.

Teschke, O, UNICAMP, NanoStruct & Interfaces Lab, Inst Fis, BR-13083970 Campinas, SP, Brazil.

Vargas, J.M., Socolovsky, L.M., Goya, G.F., Knobel, M. and Zanchet, D. (2003).

Structural, magnetic, and Mossbauer characterization of size-controlled iron-iron oxide nanoparticles obtained by chemical methods.

Ieee Transactions on Magnetism 39(5): 2681-2683.

Lab Nacl Luz Sincroton, BR-13084971 Campinas, SP, Brazil. Univ Estadual Campinas, BR-13084971 Campinas, SP, Brazil. Univ Sao Paulo, BR-05315970 Sao Paulo, SP, Brazil.

Vargas, JM, Lab Nacl Luz Sincroton, BR-13084971 Campinas, SP, Brazil.

Verissimo, C. and Alves, O.L. (2003).

Preparation of the conducting nanocomposites using molded inorganic matrix: fibrous cerium(IV) hydrogenphosphate as a self-supported pyrrole polymerization agent.

Journal of Materials Chemistry 13(6): 1378-1383.

Univ Estadual Campinas, Lab Quim Estado Solido, Inst Quim, BR-13083970 Campinas, SP, Brazil.

Alves, OL, Univ Estadual Campinas, Lab Quim Estado Solido, Inst Quim, CP 6154, BR-13083970 Campinas, SP, Brazil.

Vicaro, K.O., Cotta, M.A., Gutierrez, H.R. and Bortoleto, J.R.R. (2003).

Spatially resolved electrical properties of InAs/InP quantum dots and wires.

Nanotechnology 14(5): 509-514.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, DFA, LPD, BR-13081970 Campinas, SP, Brazil.

Vicaro, KO, Univ Estadual Campinas, Inst Fis Gleb Wataghin, DFA, LPD, CP 6165, BR-13081970 Campinas, SP, Brazil.

2002

Ambrosio, M.C.B. and Taranto, O.P. (2002).

The drying of solids in a modified fluidized bed.

Brazilian Journal of Chemical Engineering 19(3): 355-358.

Univ Estadual Campinas, FEQ, Dept Termofluidodinam, Campinas, SP, Brazil. Univ Estadual Campinas, Detp Termofluidodinam, FEQ, BR-13083970 Campinas, SP, Brazil.

Ambrosio, MCB, Univ Estadual Campinas, FEQ, Dept Termofluidodinam, Campinas, SP, Brazil.

Baranauskas, V., Dourado, D.M., Zhao, J.G. and da Cruz-Hofling, M.A. (2002).

Characterization of the crotalus durissus terrificus venom by atomic force microscopy.

Journal of Vacuum Science & Technology B 20(4): 1317-1320.

Univ Estadual Campinas, Dept Semicond Instrumentos & Foton, UNICAMP, BR-13083970 Campinas, SP, Brazil. Univ Desenvolvimento Estado Reg Pantanal, Campo Grande, MS USA. Univ Estadual Campinas, Dept Histol & Embriol, UNICAMP, Inst Biol, BR-13083970 Campinas, SP, Brazil.

Baranauskas, V, Univ Estadual Campinas, Dept Semicond Instrumentos & Foton, UNICAMP, BR-13083970 Campinas, SP, Brazil.

Baranauskas, V., Santos, T.E.A., Schreiner, M.A., Zhao, J.G., Mammana, A.P. and Mammana, C.I.Z. (2002).

Analysis of nanocrystalline coatings of tin oxides on glass by atomic force microscopy.

Sensors and Actuators B-Chemical 85(1-2): 90-94.

Univ Estadual Campinas, Fac Engr Eletr & Comp, BR-13083970 Campinas, SP, Brazil. CenPRA, BR-13089500 Campinas, SP, Brazil.
Baranauskas, V, Univ Oxford, Dept Mat, Parks Rd, Oxford OX1 3PH, England.

Barros, S.R.M., Ferrari, P.A., Garcia, N.L. and Martinez, S. (2002).

Asymptotic behavior of a stationary silo with absorbing walls.

Journal of Statistical Physics 106(3-4): 521-546.

Univ Sao Paulo, IME, BR-05315970 Sao Paulo, Brazil. Univ Estadual Campinas, IMECC, BR-13081970 Campinas, SP, Brazil. Univ Chile, Dept Ingn Matemat, Santiago, Chile.
Barros, SRM, Univ Sao Paulo, IME, Caixa Postal 66281, BR-05315970 Sao Paulo, Brazil.

Bastos, C.S.M., Bahiana, M., Nunes, W.C., Novak, M.A., Altbir, D., Vargas, P. and Knobel, M. (2002).

Role of the alloy structure in the magnetic behavior of granular systems.

Physical Review B 66(21).

Univ Fed Rio de Janeiro, Inst Fis, BR-21945970 Rio De Janeiro, Brazil. Univ Santiago Chile, Dept Fis, Santiago 2, Chile. Univ Tecn Federico Santa Maria, Dept Fis, Valparaiso, Chile. Univ Estadual Campinas, Inst Fis Gleb Wataghin, UNICAMP, BR-13083970 Campinas, SP, Brazil.
Bastos, CSM, Univ Fed Rio de Janeiro, Inst Fis, Caixa Postal 68528, BR-21945970 Rio De Janeiro, Brazil.

Bertran, C.A., Marques, C.S.T. and Benvenutti, L.H. (2002).

Temporal evolution of soot particles from C₂H₂/O₂ combustion in a closed chamber.

Journal of the Brazilian Chemical Society 13(1): 47-53.

Univ Estadual Campinas, Inst Quim, BR-13083970 Campinas, SP, Brazil. Bertran, CA, Univ Estadual Campinas, Inst Quim, CP 6154, BR-13083970 Campinas, SP, Brazil.

Bittencourt, C., Landers, R., Llobet, E., Molas, G., Correig, X., Silva, M.A.P., Sueiras, J.E. and Calderer, J. (2002).

Effects of oxygen partial pressure and annealing temperature on the formation of sputtered tungsten oxide films.

Journal of the Electrochemical Society 149(3): H81-H86.

Univ Campinas, Inst Fis Gleb Wataghin, BR-13038970 Campinas, SP, Brazil. Univ Rovira & Virgili, Dept Elect Engn, Tarragona 43007, Spain. Univ Sao Paulo, Inst Fis Sao Carlos, BR-16000000 Sao Carlos, SP, Brazil. Univ Rovira & Virgili, Dept Engn Quim, Tarragona 43007, Spain. Univ Politecn Catalunya, Dept Elect Engn, ES-08034 Barcelona, Spain. Bittencourt, C, Univ Campinas, Inst Fis Gleb Wataghin, BR-13038970 Campinas, SP, Brazil.

Bortoleto, J.R.R., Cotta, M.A. and de Carvalho, M.M.G. (2002).

Anisotropic unstable and stable growth of homoepitaxial (100) InP films.

Surface Science 515(1): 117-125.

UNICAMP, LPD, DFA, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

Bortoleto, JRR, UNICAMP, LPD, DFA, Inst Fis Gleb Wataghin, CP 6165, BR-13083970 Campinas, SP, Brazil.

Brandi, H.S., Latge, A. and Oliveira, L.E. (2002).

Magnetic-field and laser effects on the electronic and donor states in semiconducting quantum dots.

Journal of Applied Physics 92(8): 4209-4212.

Univ Fed Rio de Janeiro, Inst Fis, BR-21945970 Rio De Janeiro, Brazil. Univ Fed Fluminense, Inst Fis, BR-24210340 Niteroi, RJ, Brazil. UNICAMP, Inst Fis, BR-13083970 Campinas, SP, Brazil.

Brandi, HS, Univ Fed Rio de Janeiro, Inst Fis, BR-21945970 Rio De Janeiro, Brazil.

Brandl, A.L., Denardin, J.C., Knobel, M., Dotto, M.E.R. and Kleinke, M.U. (2002).

Study of interactions in CO-SiO₂ granular films by means of MFM and magnetization measurements.

Physica B-Condensed Matter 320(1-4): 213-216.

Univ Estadual Campinas, IFGW, UNICAMP, BR-13083970 Campinas, SP, Brazil.

Brandl, AL, Univ Estadual Campinas, IFGW, UNICAMP, CP 6165, BR-13083970 Campinas, SP, Brazil.

Craco, L. and Cuniberti, G. (2002).

Effect of the lead dimensionality over transport properties in quantum dots.

Brazilian Journal of Physics 32(2): 293-295.

UNICAMP, Inst Fis Gleb Wataghin, BR-13081910 Campinas, SP, Brazil.

Max Planck Inst Phys Komplexer Syst, D-01187 Dresden, Germany.

Craco, L, UNICAMP, Inst Fis Gleb Wataghin, BR-13081910 Campinas, SP, Brazil.

Craievich, A.F., Kellermann, G., Barbosa, L.C. and Alves, O.L. (2002).

Structure characterization and mechanism of growth of PbTe nanocrystals embedded in a silicate glass.

Physical Review Letters 89(23).

USP, Inst Phys, BR-09500900 Sao Paulo, Brazil. Natl Synchrotron Light Lab, Campinas, SP, Brazil. UNICAMP, Inst Phys, Campinas, SP, Brazil.

UNICAMP, Inst Chem, Campinas, SP, Brazil. USP, Inst Phys, BR-05315970 Sao Paulo, Brazil.

Craievich, AF, USP, Inst Phys, BR-09500900 Sao Paulo, Brazil.

Cruz, T.G.S., Kleinke, M.U. and Gorenstein, A. (2002).

Evidence of local and global scaling regimes in thin films deposited by sputtering: An atomic force microscopy and electrochemical study.

Applied Physics Letters 81(26): 4922-4924.

State Univ Campinas, Gleb Wataghin Phys Inst, Dept Appl Phys, BR-13083970 Campinas, SP, Brazil.

Cruz, TGS, State Univ Campinas, Gleb Wataghin Phys Inst, Dept Appl Phys, BR-13083970 Campinas, SP, Brazil.

da Silva, L. and de Aguiar, M.A.M. (2002).

Short-range interactions in a two-electron system: Energy levels and magnetic properties.

Physical Review B 66(16).

Univ Estadual Campinas, UNICAMP, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Duke Univ, Dept Phys, Durham, NC 27708 USA. da Silva, LGGVD, Univ Fed Sao Carlos, Dept Fis, BR-13565905 Sao Carlos, SP, Brazil.

De Arruda, A.C.S., Mousinho, A.P., Mansano, R.D., Ruas, R., Hanamoto, L.S. and Felisberti, M. (2002).

The influence of thermal annealing in polymers employed in microelectronics.

Molecular Crystals and Liquid Crystals 374: 397-402.

Univ Sao Paulo, LSI, EPUSP, BR-05508 Sao Paulo, Brazil. UNICAMP, Dept Quim, Campinas, SP, Brazil.

De Arruda, ACS, Univ Sao Paulo, LSI, EPUSP, BR-05508 Sao Paulo, Brazil.

de Azevedo, M.M.M., Bueno, M., Davanzo, C.U. and Galembeck, F. (2002).

Coexistence of liquid phases in the sodium polyphosphate-chromium nitrate-water system.

Journal of Colloid and Interface Science 248(1): 185-193.

Univ Estadual Campinas, Inst Chem, BR-13083970 Campinas, SP, Brazil. Galembeck, F, Univ Estadual Campinas, Inst Chem, POB 6154, BR-13083970 Campinas, SP, Brazil.

de Carvalho, H.B., Brasil, M., Knobel, M. and Cotta, M.A. (2002). Microstructure and magnetic properties of Co films on Si: Thickness and roughness dependence. Metastable and Nanostructured Materials - Nanomat-2001, Proceedings. **403**: 111-116.

Denardin, J.C., Brandl, A.L., Knobel, M., Panissod, P., Pakhomov, A.B., Liu, H. and Zhang, X.X. (2002).

Thermoremanence and zero-field-cooled/field-cooled magnetization study of Co-x(SiO₂)(1-x) granular films.

Physical Review B 65(6).

UNICAMP, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Inst Phys & Chim Mat Strasbourg, F-67037 Strasbourg, France. Hong Kong Univ Sci & Technol, MCPF, MAGIC, Kowloon, Hong Kong, Peoples R China. Hong Kong Univ Sci & Technol, INST, Kowloon, Hong Kong, Peoples R China. Hong Kong Univ Sci & Technol, Dept Phys, Kowloon, Hong Kong, Peoples R China.
Denardin, JC, UNICAMP, Inst Fis Gleb Wataghin, CP 6165, BR-13083970 Campinas, SP, Brazil.

Droppa, R., Hammer, P., Carvalho, A.C.M., dos Santos, M.C. and Alvarez, F. (2002).

Incorporation of nitrogen in carbon nanotubes.

Journal of Non-Crystalline Solids 299: 874-879.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, UNICAMP, BR-13083970 Campinas, SP, Brazil.

Alvarez, F, Univ Estadual Campinas, Inst Fis Gleb Wataghin, UNICAMP, BR-13083970 Campinas, SP, Brazil.

Franco, R., Figueira, M.S. and Foglio, M.E. (2002).

X-boson cumulant approach to the periodic Anderson model.

Physical Review B 66(4).

Univ Fed Fluminense, Inst Fis, BR-24210340 Niteroi, RJ, Brazil. Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

Franco, R, Univ Fed Fluminense, Inst Fis, CP 100-093, Ave Litoranea S-No, BR-24210340 Niteroi, RJ, Brazil.

Freire, R.S., Duran, N., Wang, J. and Kubota, L.T. (2002).

Laccase-based screen printed electrode for amperometric detection of phenolic compounds.

Analytical Letters 35(1): 29-38.

New Mexico State Univ, Dept Chem & Biochem, Las Cruces, NM 88003 USA. Univ Estadual Campinas, Inst Quim, BR-13083970 Campinas, SP, Brazil.

Wang, J, New Mexico State Univ, Dept Chem & Biochem, Las Cruces, NM 88003 USA.

Galembeck, F., Da Silva, M., Leite, C.A.P., Costa, C.A.R. and Galembeck, A. (2002).

Particle and polymer microchemistry and electric domain mapping.

Molecular Crystals and Liquid Crystals 374: 159-166.

Univ Estadual Campinas, Inst Chem, BR-13083970 Campinas, SP, Brazil.

Univ Fed Pernambuco, Recife, PE, Brazil.

Galembeck, F, Univ Estadual Campinas, Inst Chem, POB 6154, BR-13083970 Campinas, SP, Brazil.

Gutierrez, H.R., Cotta, M.A., Bortoleto, J.R.R. and de Carvalho, M.M.G. (2002).

Role of group V exchange on the shape and size of InAs/InP self-assembled nanostructures.

Journal of Applied Physics 92(12): 7523-7526.

UNICAMP, DFA LPD, Inst Fis Gleb Wataghin, BR-13081970 Campinas, SP, Brazil.

Gutierrez, HR, UNICAMP, DFA LPD, Inst Fis Gleb Wataghin, Case Postale 6165, BR-13081970 Campinas, SP, Brazil.

Kang, K. and Craco, L. (2002).

Mesoscopic Kondo resonance in a quantum dot connected to an Aharonov-Bohni ring.

Physical Review B 65(3).

Elect & Telecommun Res Inst, Basic Res Lab, Taejon 305350, South Korea.

UNICAMP, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

Kang, K, Elect & Telecommun Res Inst, Basic Res Lab, Taejon 305350, South Korea.

Kellermann, G. and Craievich, A.F. (2002).

Structure and melting of Bi nanocrystals embedded in a B2O3-Na2O glass.

Physical Review B 65(13).

Univ Estadual Campinas, Lab Nacl Luz Sincrotron, Campinas, SP, Brazil.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, Campinas, SP, Brazil.

Univ Sao Paulo, Inst Fis, BR-01498 Sao Paulo, Brazil.

Kellermann, G, Univ Estadual Campinas, Lab Nacl Luz Sincrotron, Campinas, SP, Brazil.

Knobel, M., Denardin, J.C. and Brandl, A.L. (2002). Magnetic and magnetotransport properties of nanostructured magnetic materials. Metastable and Nanostructured Materials - Nanomat-2001, Proceedings. 403: 117-125.

Knobel, M., Sampaio, L.C., Sinnecker, E., Vargas, P. and Altbir, D. (2002).

Dipolar magnetic interactions among magnetic microwires.

Journal of Magnetism and Magnetic Materials 249(1-2): 60-72.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. MCT, CBPF, URCA, BR-22290180 Rio De Janeiro, Brazil. Univ Tecn Federico Santa Maria, Dept Fis, Valparaíso, Chile. Univ Santiago, Dept Fis, Santiago 2, Chile.

Knobel, M, Univ Estadual Campinas, Inst Fis Gleb Wataghin, CP 6165, BR-13083970 Campinas, SP, Brazil.

Kurmaev, E.Z., Galakhov, A.V., Moewes, A., Moehlecke, S. and Kopelevich, Y. (2002).

Interlayer conduction band states in graphite-sulfur composites.

Physical Review B 66(19).

Russian Acad Sci, Inst Met Phys, Ural Div, Ekaterinburg 620219, Russia. Univ Saskatchewan, Dept Phys & Engrg Phys, Saskatoon, SK S7N 5E2, Canada. Univ Calif San Diego, Dept Phys, La Jolla, CA 92093 USA. Univ Calif San Diego, Inst Pure & Appl Phys Sci, La Jolla, CA 92093 USA. Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

Kurmaev, EZ, Russian Acad Sci, Inst Met Phys, Ural Div, GSP-170, Ekaterinburg 620219, Russia.

Legoas, S.B., Galvao, D.S., Rodrigues, V. and Ugarte, D. (2002).

Origin of anomalously long interatomic distances in suspended gold chains.

Physical Review Letters 88(7).

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Lab Nacl Luz Sincrotron, BR-13084971 Campinas, SP, Brazil.

Legoas, SB, Univ Estadual Campinas, Inst Fis Gleb Wataghin, CP 6165, BR-13083970 Campinas, SP, Brazil.

Longo, C., Nogueira, A.F., De Paoli, M.A. and Cachet, H. (2002).
Solid-state and flexible dye-sensitized TiO₂ solar cells: a study by electrochemical impedance spectroscopy.
Journal of Physical Chemistry B 106(23): 5925-5930.

UNICAMP, Lab Polimeros Condutores & Reciclagem, Inst Quim, BR-13083970 Campinas, SP, Brazil. CNRS, UPR15, Lab Phys Liquides & Electrochim, F-75252 Paris 05, France.
De Paoli, MA, UNICAMP, Lab Polimeros Condutores & Reciclagem, Inst Quim, C Postal 6154, BR-13083970 Campinas, SP, Brazil.

Madureira, J.R., Maialle, M.Z. and Degani, M.H. (2002).
Magnetoexciton electroabsorption in T-shaped semiconductor quantum wires.
Physical Review B 66(7).

Univ Estadual Campinas, Inst Fis, BR-13083970 Campinas, SP, Brazil.
Liceu Vivere, BR-13635000 Pirassununga, SP, Brazil. Univ Sao Francisco, BR-13251900 Itatiba, SP, Brazil.
Madureira, JR, Univ Estadual Campinas, Inst Fis, CP 6165, BR-13083970 Campinas, SP, Brazil.

Magalhaes, J.L., Moreira, L.M., Rodrigues, U.P., Giz, M.J., Pereira-da-Silva, M.A., Landers, R., Vinhas, R.C.G. and Nascente, P.A.P. (2002).
Surface chemistry of the iron tetraazamacrocyclic on the aminopropyl-modified surface of oxidized n-Si(100) by AFM and XPS.
Surface and Interface Analysis 33(4): 293-298.

Univ Sao Paulo, Inst Quim Sao Carlos, BR-13564970 Sao Carlos, SP, Brazil. Univ Sao Paulo, Inst Fis Sao Carlos, BR-13564970 Sao Carlos, SP, Brazil. Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Univ Fed Sao Carlos, Dept Mat Engn, Ctr Caracterizacao & Desenvolvimento Mat, BR-13565970 Sao Carlos, SP, Brazil.
Rodrigues, UP, Univ Sao Paulo, Inst Quim Sao Carlos, POB 780, BR-13564970 Sao Carlos, SP, Brazil.

Mammana, V.P., Santos, T.E.A., Mammana, A.P., Baranauskas, V., Ceragioli, H.J. and Peterlevitz, A.C. (2002).

Field emission properties of porous diamond-like films produced by chemical vapor deposition.

Applied Physics Letters 81(18): 3470-3472.

Univ Estadual Campinas, Fac Engn Eletr & Computacao, BR-13083970 Campinas, SP, Brazil. Minist Ciencia & Tecnol, Inst Ctr Pesquisas Renato Archer, BR-13089500 Campinas, SP, Brazil.

Mammana, VP, Univ Estadual Campinas, Fac Engn Eletr & Computacao, Ave Albert Einstein N 400, BR-13083970 Campinas, SP, Brazil.

Nakaema, M.K.K., Brasil, M., Iikawa, F., Ribeiro, E., Heinzl, T., Ensslin, K., Medeiros-Ribeiro, G., Petroff, P.M. and Brum, J.A. (2002).

Micro-photoluminescence of self-assembled quantum dots in the presence of an electron gas.

Physica E-Low-Dimensional Systems & Nanostructures 12(1-4): 872-875.

Univ Estadual Campinas, IFGW, DFESCM, Campinas, SP, Brazil. Lab Nucl Luz Sincrotron, Campinas, SP, Brazil. ETH Zurich, Festkorperphys Lab, Zurich, Switzerland. UCSB, Dept Mat, Santa Barbara, CA USA.

Iikawa, F, Univ Estadual Campinas, IFGW, DFESCM, Campinas, SP, Brazil.

Nakaema, M.K.K., Iikawa, F., Brasil, M., Ribeiro, E., Medeiros-Ribeiro, G., Carvalho, W., Maialle, M.Z. and Degani, M.H. (2002).

On the origin of the blueshift from type-II quantum dots emission using microphotoluminescence.

Applied Physics Letters 81(15): 2743-2745.

UNICAMP, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Lab Nacl Luz Sincrotron, BR-13084971 Campinas, SP, Brazil. Univ Sao Francisco, BR-13251900 Itatiba, SP, Brazil.

Nakaema, MKK, UNICAMP, Inst Fis Gleb Wataghin, CP-6165, BR-13083970 Campinas, SP, Brazil.

Oliveira, F.D., Schneider, J., Siervo, A., Landers, R., Plepis, A.M.G., Pireaux, J.J. and Rodrigues, U.P. (2002).

Micro- and nanocomposites of Keggin heteropolymetalates in cellulose esters.

Surface and Interface Analysis 34(1): 580-582.

Univ Sao Paulo, Inst Quim Sao Carlos, BR-13564970 Sao Carlos, SP, Brazil. Univ Sao Paulo, Inst Fis Sao Carlos, BR-13564970 Sao Carlos, SP, Brazil. Univ Estadual Campinas, Inst Fis Gleb Wataghin, Campinas, SP, Brazil. Fac Univ Notre Dame Paix, Lab Interdisciplinaire Spect Elect, B-5000 Namur, Belgium.

Rodrigues, UP, Univ Sao Paulo, Inst Quim Sao Carlos, POB 780, BR-13564970 Sao Carlos, SP, Brazil.

Oliveira, L.E., Latge, A. and Brandi, H.S. (2002).

A dressed-atom approach to laser effects in excitons and shallow impurities in low-dimensional semiconductor heterostructures.

Physica Status Solidi a-Applied Research 190(3): 667-672.

UNICAMP, Inst Fis, BR-13083970 Campinas, SP, Brazil. Univ Fed Fluminense, Inst Fis, BR-24210340 Niteroi, RJ, Brazil. Univ Fed Rio de Janeiro, Inst Fis, BR-21946970 Rio De Janeiro, RJ, Brazil.

Oliveira, LE, UNICAMP, Inst Fis, CP 6165, BR-13083970 Campinas, SP, Brazil.

Pereira-Da-Silva, M.A., Balogh, D.T., Eiras, C., Kleinke, M.U. and Faria, R.M. (2002).

Analysis of polyaniline films using atomic force microscopy.

Molecular Crystals and Liquid Crystals 374: 191-200.

USP, Inst Fis Sao Carlos, BR-13560970 Sao Carlos, SP, Brazil. UNICAMP, Inst Fis Gleb Wataghin, Campinas, SP, Brazil.

Pereira-Da-Silva, MA, USP, Inst Fis Sao Carlos, Caixa Postal 369, BR-13560970 Sao Carlos, SP, Brazil.

Poa, C.H., Lacerda, R.G., Cox, D.C., Silva, S.R.P. and Marques, F.C. (2002).

Stress-induced electron emission from nanocomposite amorphous carbon thin films.

Applied Physics Letters 81(5): 853-855.

Univ Estadual Campinas, UNICAMP, Inst Fis Gleb Wataghin, BR-13083970
Campinas, SP, Brazil. Univ Surrey, Sch Elect Comp & Math, Guildford GU2
7XH, Surrey, England.
Poa, CH, Univ Surrey, Sch Elect Comp & Math, Guildford GU2 7XH, Surrey,
England.

Redondo, S.U.A., Radovanovic, E., Goncalves, M.C. and Yoshida, I.V.P. (2002).

Eucalyptus Kraft pulp fibers as an alternative reinforcement of silicone composites. I. Characterization and chemical modification of Eucalyptus fibers withganosilane coupling agent.

Journal of Applied Polymer Science 85(12): 2573-2579.

Univ Estadual Campinas, Inst Quim, BR-13083970 Campinas, SP, Brazil.
Yoshida, IVP, Univ Estadual Campinas, Inst Quim, CP 6154, BR-13083970
Campinas, SP, Brazil.

Reyes-Betanzo, C., Moshkalyov, S.A., Ramos, A.C., Diniz, J.A. and Swart, J.W. (2002).

Study of Conditions for Anisotropic Plasma Etching of Tungsten and Tungsten Nitride Using SF₆ /Ar Gas Mixtures.

Journal of Electrochemical Society 149: G179-G183.

Faculdade de Engenharia Elétrica e de Computação

Rodrigues, V., Bettini, J., Rocha, A.R., Rego, L.G.C. and Ugarte, D. (2002).

Quantum conductance in silver nanowires: Correlation between atomic structure and transport properties.

Physical Review B 65(15).

Lab Nacl Luz Sincrotron, BR-13084971 Campinas, SP, Brazil. UNICAMP,
Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.
Rodrigues, V, Lab Nacl Luz Sincrotron, Caixa Postal 6192, BR-13084971
Campinas, SP, Brazil.

Rodrigues, V. and Ugarte, D. (2002).

Atomic arrangement and conductance of metal nanowires.

Physica Status Solidi B-Basic Research 230(2): 475-480.

Lab Nacl Luz Sincrotron, BR-13084971 Campinas, SP, Brazil. UNICAMP,

Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

Ugarte, D, Lab Nacl Luz Sincrotron, CP 6192, BR-13084971 Campinas, SP, Brazil.

Rodrigues, V. and Ugarte, D. (2002).

Metal nanowires: atomic arrangement and electrical transport properties.

Nanotechnology 13(3): 404-408.

Lab Nacl Luz Sincrotron, BR-13084971 Campinas, SP, Brazil. UNICAMP,

Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

Rodrigues, V, Lab Nacl Luz Sincrotron, CP 6192, BR-13084971 Campinas, SP, Brazil.

Rodrigues, V. and Ugarte, D. (2002).

Quantum conductance properties of metal nanowires.

Materials Science and Engineering B-Solid State Materials for Advanced Technology 96(2): 188-192.

Lab Nacl Sincrotron, BR-13084971 Campinas, SP, Brazil. UNICAMP, Inst

Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

Ugarte, D, Lab Nacl Sincrotron, CP 6192, BR-13084971 Campinas, SP, Brazil.

Romero, J.G.V., Luengo, C.A., Huber, J.G. and Rosolen, J.M. (2002).

Synthesis of single-wall nanotubes by pyrolysis of graphite in helium atmosphere.

Quimica Nova 25(1): 59-61.

UNICAMP, Inst Fis Gleb Wataghin, Dept Fis Aplicada, BR-13083970

Campinas, SP, Brazil.

Romero, JGV, UNICAMP, Inst Fis Gleb Wataghin, Dept Fis Aplicada, BR-13083970 Campinas, SP, Brazil.

Santos, L.V., Trava-Airoidi, V.J., Corat, E.J., Iha, K., Massi, M., Prioli, R. and Landers, R. (2002).

Friction coefficient measurements By LFM on DLC films as function of sputtering deposition parameters.

Diamond and Related Materials 11(3-6): 1135-1138.

Inst Natl Pesquisas Espaciais INPE, Sao Jose Dos Campos, Brazil. Inst Tecnol Aeronaut, ITA CTA, Sao Jose Dos Campos, Brazil. Pontificia Univ Catolica Rio de Janeiro, Rio De Janeiro, Brazil. Univ Estadual Campinas, UNICAMP, Campinas, Brazil.

Santos, LV, Inst Natl Pesquisas Espaciais INPE, Av Astronautas 178,CP 515, Sao Jose Dos Campos, Brazil.

Schulz, P.A., Rivera, P.H. and Studart, N. (2002).

Renormalization approach to quantum-dot structures under strong alternating fields.

Physical Review B 66(19).

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Univ Fed Sao Carlos, Dept Fis, BR-13565905 Sao Carlos, SP, Brazil.

Schulz, PA, Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

Silva, C.R., Fonseca, M.G., Barone, J.S. and Airoidi, C. (2002).

Layered inorganic-organic talc-like nanocomposites.

Chemistry of Materials 14(1): 175-179.

Univ Estadual Campinas, Inst Quim, BR-13083970 Campinas, SP, Brazil.

Silva, CR, Univ Estadual Campinas, Inst Quim, Caixa Postal 6154, BR-13083970 Campinas, SP, Brazil.

Silva-Valencia, J., Miranda, E. and dos Santos, R.R. (2002).

Luttinger liquid superlattices: Realization of gapless insulating phases.

Physical Review B 65(11).

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Univ Fed Rio de Janeiro, Inst Fis, BR-21945970 Rio De Janeiro, Brazil.

Silva-Valencia, J, Univ Estadual Campinas, Inst Fis Gleb Wataghin, CP 6165, BR-13083970 Campinas, SP, Brazil.

Teixeira-Neto, E. and Galembeck, F. (2002).

Substrate effect on latex particle self-arraying: a SEPM study.

Colloids and Surfaces a-Physicochemical and Engineering Aspects 207(1-3): 147-154.

Univ Estadual Campinas, Inst Quim, UNICAMP, BR-13083970 Campinas, SP, Brazil.

Galembeck, F, Univ Estadual Campinas, Inst Quim, UNICAMP, POB 6154, BR-13083970 Campinas, SP, Brazil.

Teschke, O. and de Souza, E.F. (2002).

Liposome structure imaging by atomic force microscopy: Verification of improved liposome stability during adsorption of multiple aggregated vesicles.

Langmuir 18(17): 6513-6520.

UNICAMP, IFGW, DFA, Nano Struct Lab, BR-13083970 Campinas, SP, Brazil. Pontificia Univ Catolica Campinas, Inst Ciencias Biol & Quim, BR-13020904 Campinas, SP, Brazil.

Teschke, O, UNICAMP, IFGW, DFA, Nano Struct Lab, Caixa Postal 6165, BR-13083970 Campinas, SP, Brazil.

Tessler, L.R., Coffey, J.L., Ji, J. and Senter, R.A. (2002).

Erbium environment in silicon nanoparticles.

Journal of Non-Crystalline Solids 299: 673-677.

UNICAMP, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

Texas Christian Univ, Dept Chem, Ft Worth, TX 76129 USA.

Tessler, LR, UNICAMP, Inst Fis Gleb Wataghin, CP 6165, BR-13083970 Campinas, SP, Brazil.

van Raap, M.B.F., Socolovsky, L.M., Sanchez, F.H. and Torriani, I.L. (2002).

Small-angle x-ray scattering study of nanocrystalline FeCu_{1-y} alloys produced by ball milling.

Journal of Physics-Condensed Matter 14(4): 857-864.

Natl Univ La Plata, Fac Ciencias Exactas, Dept Fis, RA-1900 La Plata, Argentina. UNICAMP, Inst Fis, BR-13083970 Campinas, SP, Brazil.
van Raap, MBF, Natl Univ La Plata, Fac Ciencias Exactas, Dept Fis, CC 67, RA-1900 La Plata, Argentina.

Vargas, P., Altbir, D., Knobel, M. and Laroze, D. (2002).

Thermodynamics of two-dimensional magnetic nanoparticles.

Europhysics Letters 58(4): 603-609.

Univ Tecn Federico Santa Maria, Dept Fis, Valparaiso, Chile. Max Planck Inst Festkorperphys, D-70569 Stuttgart, Germany. Univ Santiago Chile, Dept Fis, Santiago, Chile. Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Univ Catolica Valparaiso, Inst Fis, Valparaiso, Chile.

Vargas, P, Univ Tecn Federico Santa Maria, Dept Fis, Valparaiso, Chile.

Vargas, P., Knobel, M. and Altbir, D. (2002).

Magnetic relaxation in nanocrystalline systems: linking Monte Carlo steps with time.

Zeitschrift Fur Metallkunde 93(10): 974-977.

Univ Tecn Federico Santa Maria, Dept Phys, Valparaiso, Chile. Univ Tecn Federico Santa Maria, Dept Fis, Valparaiso, Chile. Univ Estadual Campinas, Inst Fis Gleb Wataghin, Campinas, SP, Brazil. Univ Santiago Chile, Dept Fis, Santiago, Chile.

Vargas, P, Univ Tecn Federico Santa Maria, Dept Phys, Av Espana 1680, Casilla 110V, Valparaiso, Chile.

Vergara, M.P.C., Cezar, J.C., Tolentino, H.C.N. and Knobel, M. (2002).

Structural evolution of Co clusters on Cu₉₀Co₁₀ upon annealing.

Physica B-Condensed Matter 320(1-4): 143-145.

Univ Estadual Campinas, Lab Nacl Luz Sincrotron, LNLS ABTLuS, BR-13083970 Campinas, SP, Brazil. Univ Los Andes, Dept Fis, Bogota, Colombia. UNICAMP, Inst Fis Gleb Wataghin, Campinas, SP, Brazil. Tolentino, HCN, Univ Estadual Campinas, Lab Nacl Luz Sincrotron, LNLS ABTLuS, Caixa Postal 6192, BR-13083970 Campinas, SP, Brazil.

Zioli, R.L. and Jardim, W.F. (2002).

Photocatalytic decomposition of seawater-soluble crude-oil fractions using high surface area colloid nanoparticles of TiO₂.

Journal of Photochemistry and Photobiology a-Chemistry 147(3): 205-212.

Pontificia Univ Catolica Rio de Janeiro, Dept Quim Pontificia, BR-22453900 Rio De Janeiro, Brazil. Univ Estadual Campinas, Inst Quim, BR-13083970 Campinas, SP, Brazil.

Zioli, RL, Pontificia Univ Catolica Rio de Janeiro, Dept Quim Pontificia, Rua Marques Sao Vicente 225, BR-22453900 Rio De Janeiro, Brazil.

2001

Allia, P., Coisson, M., Tiberto, P., Vinai, F., Knobel, M., Novak, M.A. and Nunes, W.C. (2001).

Granular Cu-Co alloys as interacting superparamagnets.

Physical Review B 6414(14).

Politecn Turin, Dipartimento Fis, I-10129 Turin, Italy. INFM, UdR TO Poli, I-10129 Turin, Italy. Politecn Turin, DISPEA, I-10129 Turin, Italy. Ist Elettrotecnico Nazl Galileo Ferraris, I-10125 Turin, Italy. UNICAMP, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Univ Fed Rio de Janeiro, Inst Fis, BR-21945970 Rio De Janeiro, Brazil.

Allia, P, Politecn Turin, Dipartimento Fis, Corso Duca Abruzzi 24, I-10129 Turin, Italy.

Baranauskas, V., Ceragioli, H.J., Peterlevitz, A.C. and Durrant, S.F. (2001).

Development of tubes of micro-crystalline diamond and diamond-like carbon.

Thin Solid Films 398: 250-254.

Univ Estadual Campinas, Dept Semicond Instrumentos & Foton, Fac Engn Eletr & Comp, BR-13083970 Campinas, SP, Brazil.

Baranauskas, V, Univ Estadual Campinas, Dept Semicond Instrumentos & Foton, Fac Engn Eletr & Comp, Av Albert Einstein 400, BR-13083970 Campinas, SP, Brazil.

Baranauskas, V., Garavello-Freitas, I., Jingguo, Z. and Cruz-Hofling, M.A. (2001).

Observation of the bone matrix structure of intact and regenerative zones of tibias by atomic force microscopy.

Journal of Vacuum Science & Technology A 19(4): 1042-1045.

UNICAMP, Fac Elect & Comp Engr, BR-13083970 Campinas, SP, Brazil.
Univ Estadual Campinas, Inst Biol, Dept Histol & Embryol, Campinas, SP, Brazil.

Baranauskas, V, UNICAMP, Fac Elect & Comp Engr, Av Albert Einstein N400, BR-13083970 Campinas, SP, Brazil.

Baranauskas, V., Peterlevitz, A.C., Ceragioli, H.J. and Durrant, S.F. (2001).

Micro-crystalline diamond and nano-carbon structures produced using a high argon concentration in hot-filament chemical vapor deposition.

Journal of Vacuum Science & Technology A 19(4): 1057-1062.

Univ Estadual Campinas, Fac Elect & Comp Engr, Dept Semicond Instrumentos & Foton, BR-13083970 Campinas, SP, Brazil.

Baranauskas, V, Univ Estadual Campinas, Fac Elect & Comp Engr, Dept Semicond Instrumentos & Foton, Av Albert Einstein N400, BR-13083970 Campinas, SP, Brazil.

Baranauskas, V., Peterlevitz, A.C., Chang, D.C. and Durrant, S.F. (2001).

Method of porous diamond deposition on porous silicon.

Applied Surface Science 185(1-2): 108-113.

Univ Estadual Campinas, Fac Engr Eletr & Computac, BR-13083970 Campinas, SP, Brazil.

Baranauskas, V, Univ Oxford, Dept Mat, Parks Rd, Oxford OX1 3PH, England.

Baranauskas, V., Peterlevitz, A.C., Zhao, J.G. and Durrant, S.F. (2001).

Fabrication of smooth diamond films on SiO₂ by the addition of nitrogen to the gas feed in hot-filament chemical vapor deposition.

Journal of Vacuum Science & Technology a-Vacuum Surfaces and Films 19(4): 1052-1056.

Univ Estadual Campinas, Fac Engr Elect & Comp, Dept Semicond Instrumentos & Foton, BR-13083970 Campinas, SP, Brazil.

Baranauskas, V, Univ Estadual Campinas, Fac Engr Elect & Comp, Dept Semicond Instrumentos & Foton, Av Albert Einstein N400, BR-13083970 Campinas, SP, Brazil.

Brandi, H.S., Latge, A. and Oliveira, L.E. (2001).

Light-induced shifts in the electronic and shallow-donor states in GaAs-(Ga,Al)As quantum dots.

Physical Review B 64(23).

Univ Fed Rio de Janeiro, Inst Fis, BR-21945970 Rio De Janeiro, Brazil. Univ Fed Fluminense, Inst Fis, BR-24210340 Niteroi, RJ, Brazil. UNICAMP, Inst Fis, BR-13083970 Campinas, SP, Brazil.

Brandi, HS, Univ Fed Rio de Janeiro, Inst Fis, BR-21945970 Rio De Janeiro, Brazil.

Ceotto, G., de Souza, E.F. and Teschke, O. (2001).

Ionic surfactant films imaged by atomic force microscopy.

Journal of Molecular Catalysis a-Chemical 167(1-2): 225-233.

UNICAMP, IFGW, Nano Struct Lab, BR-13081970 Campinas, SP, Brazil.

Univ Fed Vicosa, Dept Fis, BR-36571000 Vicosa, MG, Brazil. Pontificia Univ Catolica Campinas, Inst Ciencias Biol & Quim, BR-13020904 Campinas, SP, Brazil.

Teschke, O, UNICAMP, IFGW, Nano Struct Lab, BR-13081970 Campinas, SP, Brazil.

Cezar, J.C., Knobel, M. and Tolentino, H.C.N. (2001).

Magnetic properties of Cu-Permalloy granular alloy.

Journal of Magnetism and Magnetic Materials 226: 1519-1521.

LNLS, BR-13083970 Campinas, SP, Brazil. UNICAMP, Inst Fis Gleb Wataghin, Campinas, SP, Brazil.

Cezar, JC, LNLS, CP 6192, BR-13083970 Campinas, SP, Brazil.

Cezar, J.C., Tolentino, H.C.N. and Knobel, M. (2001).

Structural and magnetic characterization of CuCo granular alloys.

Journal of Magnetism and Magnetic Materials 233(1-2): 103-107.

Lab Nacl Luz Sincrotron, BR-13083970 Campinas, SP, Brazil. UNICAMP, Inst Fis Gleb Wataghin, Campinas, SP, Brazil.

Tolentino, HCN, Lab Nacl Luz Sincrotron, Caixa Postal 6192, BR-13083970 Campinas, SP, Brazil.

Corio, P., Temperini, M.L.A., Santos, P.S., Romero, J.V., Huber, J.G., Luengo, C.A., Brown, S.D.M., Dresselhaus, M.S., Dresselhaus, G., Dantas, M.S.S., Leite, C.F., Matinaga, F., Gonzalez, J.C. and Pimenta, M.A. (2001).

Resonant Raman scattering characterization of carbon nanotubes grown with different catalysts.

Chemical Physics Letters 350(5-6): 373-380.

Univ Sao Paulo, Inst Quim, BR-05508900 Sao Paulo, Brazil. Univ Estadual Campinas, Inst Fis, BR-13083970 Campinas, SP, Brazil. MIT, Dept Phys, Cambridge, MA 02139 USA. MIT, Dept Elect Engr & Comp Sci, Cambridge, MA 02139 USA. MIT, Francis Bitter Natl Magnet Lab, Cambridge, MA 02139 USA. UFMG, Dept Fis, BR-30123970 Belo Horizonte, MG, Brazil.

Corio, P, Univ Sao Paulo, Inst Quim, Av Prof Lineu Prestes 748, BR-05508900 Sao Paulo, Brazil.

Costa, C.A.R., Leite, C.A.P., de Souza, E.F. and Galembeck, F. (2001).

Size effects on the microchemistry and plasticity of Stober silica particles: A study using EFTEM, FESEM, and AFM-SEPM microscopies.

Langmuir 17(1): 189-194.

Univ Estadual Campinas, UNICAMP, Inst Quim, BR-13083970 Campinas, SP, Brazil. Pontificia Univ Catolica Campinas, Inst Ciencias Biol & Quim, BR-13020904 Campinas, SP, Brazil.

Galembeck, F, Univ Estadual Campinas, UNICAMP, Inst Quim, POB 6154, BR-13083970 Campinas, SP, Brazil.

da Silva, E.Z., da Silva, A.J.R. and Fazzio, A. (2001).

How do gold nanowires break?

Physical Review Letters 87(25).

UNICAMP, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

Univ Sao Paulo, Inst Fis, BR-05315970 Sao Paulo, Brazil.

da Silva, EZ, UNICAMP, Inst Fis Gleb Wataghin, CP 6165, BR-13083970 Campinas, SP, Brazil.

Danilov, I., Pataro, L.L., Castro, M.P.P.d., Nascimento, G.C.d. and Frateschi, N.C. (2001).

Electrical and optical effects of He⁺ ion irradiation in InGaP/GaAs/InGaAs lasers.

Nuclear Instruments and Methods in Physics Research B 175: 782-786.

IFGW

de Castro, A.R.B., Fonseca, P.T., Pacheco, J.G., da Silva, J.C.V., da Silva, E.G.L. and Santana, M.H.A. (2001).

L-edge inner shell spectroscopy of nanostructured Fe₃O₄.

Journal of Magnetism and Magnetic Materials 233(1-2): 69-73.

Lab Nacl Luz Sincrotron, BR-13084971 Campinas, SP, Brazil. UNICAMP, IFGW, BR-13083970 Campinas, SP, Brazil. UNICAMP, FEQ, BR-13083970 Campinas, SP, Brazil.

de Castro, ARB, Lab Nacl Luz Sincrotron, Caixa Postal 6192, BR-13084971 Campinas, SP, Brazil.

de Castro, A.R.B., Zysler, R.D., Mansilla, M.V., Arciprete, C. and Dimitrijewits, M. (2001).

Magnetic circular dichroism in nanostructured hematite.

Journal of Magnetism and Magnetic Materials 231(2-3): 287-290.

UNICAMP, IFGW, BR-13083970 Campinas, SP, Brazil. LNLS Lab Nacl Luz Sincrotron, BR-13083970 Campinas, SP, Brazil. Comis Nacl Energia Atom, Ctr Atom Bariloche, RA-8400 Bariloche, Rio Negro, Argentina. Ctr Atom Bariloche, Complejo Technol Pilcaniyeu, RA-8400 Bariloche, Rio Negro, Argentina.

de Castro, ARB, UNICAMP, IFGW, CP6165, BR-13084971 Campinas, SP, Brazil.

de Farias, R.F. and Airoidi, C. (2001).

Synthesis and characterization of Si-Al, Si-Ti, Si-Zr, Al-Zr, Al-Ti, and Al-Ti-Zr nanocomposites of lamellar hexagonal structure.

Journal of Solid State Chemistry 158(2): 134-138.

Univ Fed Roraima, UFRR, Dept Quim, BR-69310270 Boa Vista, Roraima, Brazil. UNICAMP, Inst Quim, BR-13083970 Campinas, SP, Brazil.
de Farias, RF, Univ Fed Roraima, UFRR, Dept Quim, BR-69310270 Boa Vista, Roraima, Brazil.

de Souza, E.F., Ceotto, G. and Teschke, O. (2001).

Dielectric constant measurements of interfacial aqueous solutions using atomic force microscopy.

Journal of Molecular Catalysis a-Chemical 167(1-2): 235-243.

Univ Estadual Campinas, UNICAMP, IFGW, Nano Struct Lab, BR-13081970 Campinas, SP, Brazil. Pontificia Univ Catolica Campinas, Inst Ciencias Biol & Quim, BR-13020904 Campinas, SP, Brazil. Univ Fed Vicosa, Dept Fis, BR-36571000 Vicosa, MG, Brazil.

Teschke, O, Univ Estadual Campinas, UNICAMP, IFGW, Nano Struct Lab, Cidade Univ, Zeferino Vaz Dist, Ciaxa Postal 6165, BR-13081970 Campinas, SP, Brazil.

Denardin, J.C., Pakhomov, A.B., Knobel, M., Liu, H. and Zhang, X.X. (2001).

Ordinary and extraordinary giant Hall effects in Co-SiO₂ granular films.

Journal of Magnetism and Magnetic Materials 226: 680-682.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Hong Kong Univ Sci & Technol, Magnet Innovat Ctr MAGIC, MCPF, Kowloon, Hong Kong, Peoples R China. Hong Kong Univ Sci & Technol, Dept Phys, Kowloon, Hong Kong, Peoples R China.
Denardin, JC, Univ Estadual Campinas, Inst Fis Gleb Wataghin, CP 6165, BR-13083970 Campinas, SP, Brazil.

Durrant, S.F., Baranauskas, V., Peterlevitz, A.C., Castro, S.G., Landers, R. and de Moraes, M.A.B. (2001).

Characterization of diamond fluorinated by glow discharge plasma treatment.

Diamond and Related Materials 10(3-7): 490-495.

Univ Estadual Campinas, Fac Engr Eletr & Computacao, Dept Semicond Instrumentos & Foton, BR-13083970 Campinas, SP, Brazil. Univ Estadual Campinas, Inst Fis Gleb Wataghin, Grp Fis Superficies, Dept Fis Aplicada, BR-13083970 Campinas, SP, Brazil. Univ Estadual Campinas, Inst Fis Gleb Wataghin, Lab Proc Plasma, Dept Fis Aplicada, BR-13083970 Campinas, SP, Brazil.

Durrant, SF, Univ Estadual Campinas, Fac Engr Eletr & Computacao, Dept Semicond Instrumentos & Foton, Av Albert Einstein N 400, BR-13083970 Campinas, SP, Brazil.

Figueroa, C.A., Wisnivesky, D., Hammer, R., Lacerda, R.G., Droppa, R., Marques, F.C. and Alvarez, F. (2001).

A comprehensive nitriding study by low energy ion beam implantation on stainless steel.

Surface & Coatings Technology 146: 405-409.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

Alvarez, F, Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

Galembeck, A., Costa, C.A.R., da Silva, M. and Galembeck, F. (2001).

Macrocrystal swelling: AFM in situ observation of particle and film deformation and motion.

Journal of Colloid and Interface Science 234(2): 393-399.

Univ Estadual Campinas, Inst Chem, BR-13083970 Campinas, SP, Brazil. Univ Fed Pernambuco, Recife, PE, Brazil.

Galembeck, F, Univ Estadual Campinas, Inst Chem, POB 6154, BR-13083970 Campinas, SP, Brazil.

Galembeck, A., Costa, C.A.R., da Silva, M., Souza, E.F. and Galembeck, F. (2001).

Scanning electric potential microscopy imaging of polymers: electrical charge distribution in dielectrics.

Polymer 42(11): 4845-4851.

Univ Estadual Campinas, Inst Quim, UNICAMP, BR-13083970 Campinas, SP, Brazil. Univ Fed Pernambuco, Dept Quim Fundamental, Recife, PE, Brazil. Pontificia Univ Catolica Campinas, Inst Ciencias Biol & Quim, Campinas, SP, Brazil.

Galembeck, F, Univ Estadual Campinas, Inst Quim, UNICAMP, Caixa Postal 6154, POB 6154, BR-13083970 Campinas, SP, Brazil.

Gutierrez, H.R., Cotta, M.A. and de Carvalho, M.M.G. (2001).

Faceting evolution during self-assembling of InAs/InP quantum wires.

Applied Physics Letters 79(23): 3854-3856.

UNICAMP, DFA, LPD, Inst Fis Gleb Wataghin, BR-13081970 Campinas, SP, Brazil.

Gutierrez, HR, UNICAMP, DFA, LPD, Inst Fis Gleb Wataghin, CP 6151, BR-13081970 Campinas, SP, Brazil.

Huber, J.G., Romero, J.G.V., Spivey, J.D. and Luengo, C.A. (2001).

A bench arc-furnace facility for fullerene and single-wall nanotubes synthesis.

Quimica Nova 24(6): 898-900.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, Dept Fis Aplicada, BR-13083970 Campinas, SP, Brazil.

Huber, JG, Independent Res, 501 N Blvd,7, Richmond, VA 23220 USA.

Jankov, I.R., Szente, R.N., Goldman, I.D., Carreno, M.N.P., Swart, J.W. and Landers, R. (2001).

Sample Preparation Method for Scanning Force Microscopy.

Brazilian Journal of Physics 31: 552-561.

IFGW

Kellermann, G., Craievich, A.F., Barbosa, L.C. and Alves, O.L. (2001).

Nucleation and growth of CdTe_{1-x}S_x nanocrystals embedded in a borosilicate glass. Effects of sulfur content and two-step thermal annealing.

Journal of Non-Crystalline Solids 293: 517-526.

Univ Sao Paulo, Inst Phys, BR-05508900 Sao Paulo, SP, Brazil. Natl Synchrotron Light Lab, Campinas, SP, Brazil. UNICAMP, Inst Phys, Campinas, SP, Brazil. UNICAMP, Inst Chem, LQES, Campinas, SP, Brazil. Craievich, AF, Univ Sao Paulo, Inst Phys, Cidade Univ, Rua Matao Travessa R 187, BR-05508900 Sao Paulo, SP, Brazil.

Keslarek, A.J., Costa, C.A.R. and Galembeck, F. (2001).

Electric charge clustering and migration in latex films: A study by scanning electric potential microscopy.

Langmuir 17(25): 7886-7892.

Univ Estadual Campinas, Inst Chem, BR-13083970 Campinas, SP, Brazil. Keslarek, AJ, Univ Estadual Campinas, Inst Chem, BR-13083970 Campinas, SP, Brazil.

Leite, C.A.P. and Galembeck, F. (2001).

Nanocrystalline domain identification in gold films, by backscattered electron imaging and energy-filtered transmission electron microscopy.

Journal of Colloid and Interface Science 235(1): 4-8.

Univ Estadual Campinas, Inst Chem, BR-13083970 Campinas, SP, Brazil. Galembeck, F, Univ Estadual Campinas, Inst Chem, POB 6154, BR-13083970 Campinas, SP, Brazil.

Makarova, T.L., Sundqvist, B., Hohne, R., Esquinazi, P., Kopelevich, Y., Scharff, P., Davydov, V.A., Kashevarova, L.S. and Rakhmanina, A.V. (2001).

Magnetic carbon.

Nature 413(6857): 716-718.

AF Ioffe Phys Tech Inst, St Petersburg 194021, Russia. Umea Univ, Dept Expt Phys, S-90187 Umea, Sweden. Tech Univ Ilmenau, Dept Chem, Inst Phys, D-98693 Ilmenau, Germany. Univ Leipzig, Dept Superconduct & Magnetism, D-04103 Leipzig, Germany. UNICAMP, Inst Fis, BR-13083970

Campinas, SP, Brazil. Russian Acad Sci, Inst High Pressure Phys, Troitsk 142092, Russia.

Makarova, TL, AF Ioffe Phys Tech Inst, St Petersburg 194021, Russia.

Mazali, I.O. and Alves, O.L. (2001).

Porous glass-ceramic with skeleton of α -NbPO₅ with three-dimensional network structure.

Journal of Materials Science Letters 20(23): 2113-2117.

Univ Estadual Campinas, Inst Quim, Lab Quim Estado Solido, BR-13083970 Campinas, SP, Brazil.

Mazali, IO, Univ Estadual Campinas, Inst Quim, Lab Quim Estado Solido, CP 6154, BR-13083970 Campinas, SP, Brazil.

Mestanza, S.N.M. and Frateschi, N.C. (2001).

Laser reflectometry in situ monitoring structural and growth effects on the electron cyclotron resonance etching of In_{0.49}Ga_{0.51}P layers in Al-free laser structures.

Journal of Vacuum Science and Technology B 19: 1.

IFGW

Moya, J., Cremaschi, V., Silva, F.C.S., Knobel, M. and Sirkin, H. (2001).

Influence of the heat treatment method on magnetic and mechanical properties of the Fe_{73.5}Si_{13.5}B₉Nb₃Cu₁ alloy.

Journal of Magnetism and Magnetic Materials 226: 1522-1523.

Fac Ingn, Dept Fis, Lab Solidos Amorfos, RA-1063 Buenos Aires, DF, Argentina. UNICAMP, Inst Fis Gleb Wataghin, LMBT, BR-13083970 Campinas, SP, Brazil.

Cremaschi, V, Fac Ingn, Dept Fis, Lab Solidos Amorfos, UBA Paseo Colon 850, RA-1063 Buenos Aires, DF, Argentina.

Nogueira, A.F., De Paoli, M.A., Montanari, I., Monkhouse, R., Nelson, J. and Durrant, J.R. (2001).

Electron transfer dynamics in dye sensitized nanocrystalline solar cells using a polymer electrolyte.

Journal of Physical Chemistry B 105(31): 7517-7524.

Univ Estadual Campinas, Inst Quim, Lab Polimeros Condutores & Reciclagem, BR-13083970 Campinas, SP, Brazil. Univ London Imperial Coll Sci Technol & Med, Dept Chem, Ctr Elect Mat & Devices, London SW7 2AY, England. Univ London Imperial Coll Sci Technol & Med, Dept Phys, London SW7 2AY, England.

De Paoli, MA, Univ Estadual Campinas, Inst Quim, Lab Polimeros Condutores & Reciclagem, C Postal 6154, BR-13083970 Campinas, SP, Brazil.

Nogueira, A.F., Durrant, J.R. and De Paoli, M.A. (2001).

Dye-sensitized nanocrystalline solar cells employing a polymer electrolyte.

Advanced Materials 13(11): 826-+.

Univ Estadual Campinas, Inst Quim, Lab Polimeros Condutores & Reciclagem, BR-13083970 Campinas, SP, Brazil. Imperial Coll, Ctr Elect Mat & Devices, Dept Chem, London SW7 2AY, England.

De Paoli, MA, Univ Estadual Campinas, Inst Quim, Lab Polimeros Condutores & Reciclagem, C-Postal 6154, BR-13083970 Campinas, SP, Brazil.

Nunes, W.C., Novak, M.A., Knobel, M. and Hernando, A. (2001).

Magnetic properties in granular Co₁₀Cu₉₀ alloys: the effect of random anisotropy and interparticle interactions.

Journal of Magnetism and Magnetic Materials 226: 1856-1858.

UFRJ, Inst Fis, BR-21945970 Rio De Janeiro, Brazil. UNICAMP, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Inst Magnetismo Aplicado, Madrid, Spain.

Novak, MA, UFRJ, Inst Fis, CP 68528, BR-21945970 Rio De Janeiro, Brazil.

Oliveira, L.E., Duque, C.A., Porras-Montenegro, N. and de Dios-Leyva, M. (2001).

Shallow-donor states in semiconductor heterostructures within the fractional-dimensional space approach.

Physica B 302: 72-76.

Univ Estadual Campinas, Inst Fis, UNICAMP, BR-13083970 Campinas, SP, Brazil. Univ Antioquia, Dept Fis, Medellin, Colombia. Univ Valle, Dept Fis, Cali, Colombia. Univ Havana, Dept Theoret Phys, Havana 10400, Cuba. Oliveira, LE, Univ Estadual Campinas, Inst Fis, UNICAMP, CP 6165, BR-13083970 Campinas, SP, Brazil.

Panissod, P., Malinowska, M., Jedryka, E., Wojcik, M., Nadolski, S., Knobel, M. and Schmidt, J.E. (2001).

Inhomogeneous structure and magnetic properties of granular Co₁₀Cu₉₀ alloys.

Physical Review B 6301(1): art. no.-014408.

Inst Phys & Chim Mat Strasbourg, F-67037 Strasbourg, France. Polish Acad Sci, Inst Phys, PL-02688 Warsaw, Poland. Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Univ Fed Rio Grande Sul, Inst Fis, BR-91501970 Porto Alegre, RS, Brazil. Panissod, P, Inst Phys & Chim Mat Strasbourg, F-67037 Strasbourg, France.

Rodrigues, V. and Ugarte, D. (2001).

Real-time imaging of atomistic process in one-atom-thick metal junctions.

Physical Review B 6307(7): art. no.-073405.

Lab Nacl Luz Sincrotron, BR-13084971 Campinas, SP, Brazil. UNICAMP, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Ugarte, D, Lab Nacl Luz Sincrotron, Caixa Postal 6192, BR-13084971 Campinas, SP, Brazil.

Rodrigues, V. and Ugarte, D. (2001).

Structural and electronic properties of gold nanowires.

European Physical Journal D 16(1-3): 395-398.

Lab Nacl Luz Sincrotron, BR-13084971 Campinas, SP, Brazil. UNICAMP, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Rodrigues, V, Lab Nacl Luz Sincrotron, CP 6192, BR-13084971 Campinas, SP, Brazil.

Rowe, R.V.A., Kunita, M.H., Porto, M.F., Muniz, E.C., Rubira, A.F., Nery, R.C., Radovanovic, E., Taylor, L.T. and Nazem, N. (2001).

Low-resistance films of polyimides with impregnated copper sulfide.

Journal of Materials Research 16(11): 3097-3106.

Univ Estadual Maringa, Dept Quim, BR-87020900 Maringa, Parana, Brazil.

Univ Estadual Maringa, Dept Fis, BR-87020900 Maringa, Parana, Brazil.

UNICAMP, Inst Quim, Campinas, SP, Brazil. Virginia Tech, Dept Chem, Blacksburg, VA 24061 USA.

Rubira, AF, Univ Estadual Maringa, Dept Quim, Av Colombo 5790, BR-87020900 Maringa, Parana, Brazil.

Senter, R.A., Chen, Y.D., Coffey, J.L. and Tessler, L.R. (2001).

Synthesis of silicon nanocrystals with erbium-rich surface layers.

Nano Letters 1(7): 383-386.

Texas Christian Univ, Dept Chem, Ft Worth, TX 76129 USA. Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

Coffey, JL, Texas Christian Univ, Dept Chem, Ft Worth, TX 76129 USA.

Sforca, M.L., Yoshida, I.V.P., Borges, C.P. and Nunes, S.P. (2001).

Hybrid membranes based on SiO₂/polyether-b-polyamide: Morphology and applications.

Journal of Applied Polymer Science 82(1): 178-185.

Univ Estadual Campinas, Inst Quim, BR-13083970 Campinas, SP, Brazil.

Univ Fed Rio de Janeiro, COPPE, Prog Eng Quim, BR-21845 Rio De Janeiro, Brazil. GKSS Forschungszentrum Geesthacht GmbH, D-21502 Geesthacht, Germany.

Yoshida, IVP, Univ Estadual Campinas, Inst Quim, CP 6154, BR-13083970 Campinas, SP, Brazil.

Silva, L.L.G., Ferreira, N.G., Dotto, M.E.R. and Kleinke, M.U. (2001).

The fractal dimension of boron-doped diamond films.

Applied Surface Science 181(3-4): 327-330.

UNICAMP, NanoStruct & Interfaces Lab, DFA IFGW, BR-13081970

Campinas, SP, Brazil. ITA CTA, Dept Quim, BR-12225800 Sao Jose Dos

Campos, Brazil. LAS INPE, BR-12201970 Sao Jose Dos Campos, Brazil.

Kleinke, MU, UNICAMP, NanoStruct & Interfaces Lab, DFA IFGW, CP 6165, BR-13081970 Campinas, SP, Brazil.

Sinnecker, E., de Menezes, F.S., Sampaio, L.C., Knobel, M. and Vazquez, M. (2001).

Tailoring coercivity in an array of glass-coated microwires.

Journal of Magnetism and Magnetic Materials 226: 1467-1469.

Ctr Brasileiro Pesquisas Fis, CBPF, CNPq, BR-22290180 Rio De Janeiro, Brazil. Univ Fed Lavras, Dept Ciencias Exatas, BR-37200000 Lavras, MG, Brazil. Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. UCM, RENFE, Inst Magnetismo Aplicado, Madrid 28230, Spain. CSIC, Inst Ciencia Mat, Madrid 28230, Spain. Sinnecker, EHCP, Ctr Brasileiro Pesquisas Fis, CBPF, CNPq, Rua Dr Xavier Sigaud 150,URCA, BR-22290180 Rio De Janeiro, Brazil.

Sotomayor, P.T., Raimundo, I.M., Zarbin, A.J.G., Rohwedder, J.J.R., Neto, G.O. and Alves, O.L. (2001).

Construction and evaluation of an optical pH sensor based on polyaniline-porous Vycor glass nanocomposite.

Sensors and Actuators B-Chemical 74(1-3): 157-162.

UNICAMP, Inst Quim, BR-13083970 Campinas, SP, Brazil. UFPR, Dept Quim, BR-81531990 Curitiba, Parana, Brazil. Univ Sao Francisco, Fac Farm, BR-12900000 Braganca Paulista, SP, Brazil. Raimundo, IM, UNICAMP, Inst Quim, CP 6154, BR-13083970 Campinas, SP, Brazil.

Srinivasu, V.V., Itoh, K., Hashizume, A., Sreedevi, V., Kohmoto, H., Endo, T., da Silva, R.R., Kopelevich, Y., Moehlecke, S., Masui, T. and Hayashi, K. (2001).

Nonresonant microwave absorption in Bi2212 single crystal: Second peak and microwave power dependence.

Journal of Superconductivity 14(1): 41-46.

Mie Univ, Fac Engr, Tsu, Mie 5148507, Japan. Univ Estadual Campinas, UNICAMP, Inst Fis, BR-13083970 Campinas, SP, Brazil. Mie Prefectural Ind Res Inst, Tsu, Mie 5140819, Japan. Srinivasu, VV, Mie Univ, Fac Engr, Tsu, Mie 5148507, Japan.

Teschke, O., Ceotto, G. and de Souza, E.F. (2001).

Dielectric exchange force: a convenient technique for measuring the interfacial water relative permittivity profile.

Physical Chemistry Chemical Physics 3(17): 3761-3768.

Univ Estadual Campinas, IFGW, Nanostruct & Interfaces Lab, BR-13081970 Campinas, SP, Brazil. Univ Fed Vicosa, Dept Fis, BR-36571000 Vicosa, MG, Brazil. Pontificia Univ Catolica Campinas, BR-13020904 Campinas, SP, Brazil.

Teschke, O, Univ Estadual Campinas, IFGW, Nanostruct & Interfaces Lab, BR-13081970 Campinas, SP, Brazil.

Teschke, O., Ceotto, G. and de Souza, E.F. (2001).

Interfacial water dielectric-permittivity-profile measurements using atomic force microscopy.

Physical Review E 6401(1).

UNICAMP, IFGW, Nanostruct Lab, BR-13081970 Campinas, SP, Brazil. Univ Fed Vicosa, Dept Fis, BR-36571000 Vicosa, MG, Brazil. Pontificia Univ Catolica Campinas, Inst Ciencias Biol & Quim, BR-13020904 Campinas, SP, Brazil.

Teschke, O, UNICAMP, IFGW, Nanostruct Lab, BR-13081970 Campinas, SP, Brazil.

2000

Airoidi, C. and de Farias, R.F. (2000).

Inorganic-organic hybrids of silicon fluorides of high crystallinity.

Journal of Fluorine Chemistry 103(1): 53-55.

Univ Estadual Campinas, Inst Quim, BR-13083970 Campinas, SP, Brazil. Univ Fed Roraima, Dept Quim, BR-69310270 Boa Vista, Roraima, Brazil. Airoidi, C, Univ Estadual Campinas, Inst Quim, Caixa Postal 6154, BR-13083970 Campinas, SP, Brazil.

Airoidi, C., Nunes, L.M. and de Farias, R.F. (2000).

The intercalation of n-alkyldiamines into crystalline layered titanate.

Materials Research Bulletin 35(13): 2081-2090.

Univ Estadual Campinas, Inst Quim, BR-13083970 Campinas, SP, Brazil.
 Univ Fed Roraima, Dept Quim, BR-69310270 Boa Vista, Roraima, Brazil.
 Airoidi, C, Univ Estadual Campinas, Inst Quim, Caixa Postal 6154, BR-13083970 Campinas, SP, Brazil.

Alvarez, F. and dos Santos, M.C. (2000).

Electronic and structural properties of amorphous carbon-nitrogen alloys.
Journal of Non-Crystalline Solids 266: 808-814.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, UNICAMP, BR-13083970
 Campinas, SP, Brazil.
 Alvarez, F, Univ Estadual Campinas, Inst Fis Gleb Wataghin, UNICAMP, BR-13083970 Campinas, SP, Brazil.

Araujo-Moreira, F.M., de Lima, O.F., Trajanovich, Z., Venkatesan, V.T. and Tiz, W.A. (2000).

Grain clusters contribution to the multilevel granular behavior in melt-textured YBa₂Cu₃O_{7-d}.
Physica C 341: 537-538.

Univ Fed Sao Carlos, Dept Fis, BR-13565905 Sao Carlos, SP, Brazil. Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Univ Maryland, Dept Phys, Ctr Superconduct Res, College Pk, MD 20740 USA.
 Araujo-Moreira, FM, Univ Fed Sao Carlos, Dept Fis, CP 676, BR-13565905 Sao Carlos, SP, Brazil.

Balachova, O.V., Alves, M.A.R., Swart, J.W., Braga, E.S. and Cescato, L. (2000).

CF₄ Plasma Etching of Materials Used in Microeletronic Manufacturing.
Microelectronics Journal 31: 213-215.

Faculdade de Engenharia Elétrica e de Computação

Baranauskas, V., Ceragioli, H.J., Peterlevitz, A.C., Tosin, M.C. and Durrant, S.F. (2000).

Effects of the addition of helium on the synthesis of diamond films.

Thin Solid Films 377: 182-187.

Univ Estadual Campinas, Fac Engn Eletr & Computacao, Dept Semicond Instrumentos & Foton, BR-13083970 Campinas, SP, Brazil.

Baranauskas, V, Univ Estadual Campinas, Fac Engn Eletr & Computacao, Dept Semicond Instrumentos & Foton, Av Albert Einstein 400, BR-13083970 Campinas, SP, Brazil.

Baranauskas, V., Li, B.B., Tosin, M.C., Zhao, J.G., Ceragioli, H.J., Peterlevitz, A.C. and Durrant, S.F. (2000).

Structural and photoluminescent properties of porous silicon with deep pores obtained by laser-assisted electrochemistry.

Surface & Coatings Technology 133: 325-330.

Univ Estadual Campinas, Fac Engn Eletr & Comp, Dept Semicond Instrumentos & Fonton, BR-13083970 Campinas, SP, Brazil.

Baranauskas, V, Univ Estadual Campinas, Fac Engn Eletr & Comp, Dept Semicond Instrumentos & Fonton, Av Albert Einstein N 400, BR-13083970 Campinas, SP, Brazil.

Baranauskas, V., Peterlevitz, A.C., Li, B.B., Tosin, M.C., Ceragioli, H.J. and Durrant, S.F. (2000).

The growth of diamond films on laser-etched porous silicon.

Physica Status Solidi a-Applied Research 182(1): 181-187.

Univ Estadual Campinas, Dept Semicond Instrumentos & Foton, Fac Elect & Comp Engn, BR-13083970 Campinas, SP, Brazil.

Baranauskas, V, Univ Estadual Campinas, Dept Semicond Instrumentos & Foton, Fac Elect & Comp Engn, Av Albert Einstein N 400, BR-13083970 Campinas, SP, Brazil.

Baranauskas, V., Tosin, M.C., Ceragioli, H.J., Zhao, J.G., Peterlevitz, A.C. and Durrant, S.F. (2000).

Photoluminescent properties of porous carbon films pyrolysed on silicon.

Physica Status Solidi a-Applied Research 182(1): 395-400.

Univ Estadual Campinas, Fac Engn Eletr & Comp, Dept Semicond Instrumentos & Foton, BR-13083970 Campinas, SP, Brazil.

Baranauskas, V, Univ Estadual Campinas, Fac Engn Eletr & Comp, Dept Semicond Instrumentos & Foton, Av Albert Einstein N-400, BR-13083970 Campinas, SP, Brazil.

Baranauskas, V., Tosin, M.C., Peterlevitz, A.C., Ceragioli, H.J. and Durrant, S.F. (2000).

Microcrystalline diamond deposition on a porous silicon host matrix.

Materials Science and Engineering B-Solid State Materials for Advanced Technology 69: 171-176.

Univ Estadual Campinas, Fac Engn Eletr & Comp, BR-13083970 Campinas, SP, Brazil.

Baranauskas, V, Univ Estadual Campinas, Fac Engn Eletr & Comp, Ave Albert Einstein N 400, BR-13083970 Campinas, SP, Brazil.

Baranauskas, V., Tosin, M.C., Peterlevitz, A.C., Ceragioli, H.J. and Durrant, S.F. (2000).

Structural and photoluminescent properties of carbon structures on thick porous silicon.

Thin Solid Films 377: 315-319.

Univ Estadual Campinas, Fac Engn Eletr & Comp, BR-13083970 Campinas, SP, Brazil.

Baranauskas, V, Univ Estadual Campinas, Fac Engn Eletr & Comp, Av Albert Einstein N 400, BR-13083970 Campinas, SP, Brazil.

Bilmes, S.A., Mandelbaum, P., Alvarez, F. and Victoria, N.M. (2000).

Surface and electronic structure of titanium dioxide photocatalysts.

Journal of Physical Chemistry B 104(42): 9851-9858.

Univ Buenos Aires, Fac Ciencias Exactas & Nat, Dept Quim Inorgan Analit & Quim Fis, INQUIMAE, Buenos Aires, DF, Argentina. Univ Estadual Campinas, UNICAMP, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

Bilmes, SA, Univ Buenos Aires, Fac Ciencias Exactas & Nat, Dept Quim Inorgan Analit & Quim Fis, INQUIMAE, Ciudad Univ Pab 2,C1428EHA, Buenos Aires, DF, Argentina.

Bittencourt, C. (2000).

Characterization of SiC buffer layer formation by reaction of Si(100) surface with methane plus hydrogen plasma.

Surface and Interface Analysis 30(1): 603-606.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Univ Warwick, Dept Phys, Coventry CV4 7AL, W Midlands, England.

Bittencourt, C, Joan Fuster & tells 18,1-2, Terragona 43005, Spain.

Bittencourt, C. (2000).

Influence of substrate temperature on formation of an SiC buffer layer by reaction of Si(100) with silane-methane plasma.

Semiconductor Science and Technology 15(12): 1115-1118.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Univ Rovira & Virgili, Dept Elect Engn, Tarragona 43006, Spain.

Bittencourt, C, Univ Estadual Campinas, Inst Fis Gleb Wataghin, POB 6165, BR-13083970 Campinas, SP, Brazil.

Cavinatto, D., Zavaglia, C.A.C. and Costa, N. (2000). Porous hydroxyapatite template grown on self-assembly of lysozyme and saccharose and Langmuir-Blodgett thin films. Bioceramics. **192-1**: 99-102.

Chang, D.C., Baranauskas, V., Doi, I. and Prohaska, T. (2000).

Observation of structural depth profiles in porous silicon by atomic force microscopy.

Journal of Porous Materials 7(1-3): 349-352.

Univ Estadual Campinas, Fac Engn Eletr & Comp, BR-13083970 Campinas, SP, Brazil. Univ Agr, Inst Chem, Working Grp Analyt Chem, A-1190 Vienna, Austria.

Chang, DC, Univ Estadual Campinas, Fac Engn Eletr & Comp, Av Albert Einstein N400, BR-13083970 Campinas, SP, Brazil.

Constantino, C.J.L., Dhanabalan, A., Cotta, M.A., Pereira-da-Silva, M.A., Curvelo, A.A.S. and Oliveira, O.N. (2000).

Atomic force microscopy (AFM) investigation of Langmuir-Blodgett (LB) films of sugar cane bagasse lignin.

Holzforschung 54(1): 55-60.

Univ Sao Paulo, Inst Fis, BR-13560970 Sao Carlos, SP, Brazil. UNICAMP, Inst Fis Gleb Wataghin, Campinas, SP, Brazil. Univ Sao Paulo, Inst Quim, Sao Carlos, SP, Brazil.

Constantino, CJL, Univ Sao Paulo, Inst Fis, CP 369, BR-13560970 Sao Carlos, SP, Brazil.

da Fonseca, M.G. and Airoidi, C. (2000).

New layered inorganic-organic nanocomposites containing n-propylmercapto copper phyllosilicates.

Journal of Materials Chemistry 10(6): 1457-1463.

Univ Estadual Campinas, Inst Quim, BR-13083970 Campinas, SP, Brazil. Univ Estadual Paraiba, Fac Ciencias & Tecnol, Campina Grande, Paraiba, Brazil.

Airoidi, C, Univ Estadual Campinas, Inst Quim, Caixa Postal 6154, BR-13083970 Campinas, SP, Brazil.

da Silva, E.C.S., Knobel, M., Ferrari, E.F., Denardin, J.C., Miranda, M.G.M., Bracho, G.J., Antunes, A.B. and Baibich, M.N. (2000).

Development of granular structure in Cu₉₀Co₁₀ ribbons through furnace and current annealing.

Ieee Transactions on Magnetism 36(5): 3041-3043.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Univ Fed Rio Grande Sul, Inst Fis, BR-91501970 Porto Alegre, RS, Brazil.

da Silva, ECS, Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

da Silva, F.C.S., Ferrari, E.F., Knobel, M., Torriani, I.L. and dos Santos, D.R. (2000).

Controlling Fe nanocrystallization in amorphous Fe₈₆Zr₇Cu₁B₆ by linear varying current Joule heating.

Applied Physics Letters 77(9): 1375-1377.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

da Silva, FCS, Univ Estadual Campinas, Inst Fis Gleb Wataghin, CP 6165, BR-13083970 Campinas, SP, Brazil.

da Silva, F.C.S., Knobel, M., Ugarte, D. and Zanchet, D. (2000).

Influence of particle size distribution on magnetic properties of nanocrystalline soft magnetic Fe₈₆Zr₇Cu₁B₆.

Ieee Transactions on Magnetism 36(5): 3430-3432.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Lab Nacl Luz Sincrotron, BR-13083970 Campinas, SP, Brazil.
da Silva, FCS, Univ Estadual Campinas, Inst Fis Gleb Wataghin, CP 6165, BR-13083970 Campinas, SP, Brazil.

de Carvalho, W., Furtado, M.T., Bernussi, A.A., Gobbi, A.L. and Cotta, M.A. (2000).

Impact of growth rate on the quality of ZNS-MQW InGaAsP/InP laser structures grown by LP-MOVPE.

Journal of Electronic Materials 29(1): 62-68.

Assoc Brasileira Tecnol Luz Sincrotron, Fundacao Ctr Pesquisa & Desenvolvimento Telecomun, BR-13083970 Campinas, SP, Brazil. Univ Estadual Campinas, IFGW, Dept Fis Aplicada, Lab Pesquisa Disposit, BR-13081970 Campinas, SP, Brazil.

de Carvalho, W, Assoc Brasileira Tecnol Luz Sincrotron, Fundacao Ctr Pesquisa & Desenvolvimento Telecomun, CP 6070, BR-13083970 Campinas, SP, Brazil.

de Farias, R.F. and Airoidi, C. (2000).

Mechanically induced structural modifications in metal-doped lamellar silica.

Journal of Non-Crystalline Solids 261(1-3): 181-185.

Univ Estadual Campinas, Inst Quim, BR-13083970 Campinas, SP, Brazil. Univ Fed Roraima, Dept Quim, BR-69310270 Boa Vista, Roraima, Brazil. Airoidi, C, Univ Estadual Campinas, Inst Quim, Caixa Postal 6154, BR-13083970 Campinas, SP, Brazil.

de Farias, R.F., Martinez, L. and Airoidi, C. (2000).

Decrease of interlamellar spacing of silica samples induced by external pressure.

Journal of Non-Crystalline Solids 276(1-3): 56-60.

Univ Estadual Campinas, Inst Quim, BR-13083970 Campinas, SP, Brazil.
 Univ Fed Roraima, Dept Quim, BR-69310270 Boa Vista, Roraima, Brazil.
 Airoidi, C, Univ Estadual Campinas, Inst Quim, Caixa Postal 6154, BR-13083970 Campinas, SP, Brazil.

Denardin, J.C., Pakhomov, A.B., Knobel, M., Liu, H. and Zhang, X.X. (2000).

Giant Hall effect in Co-SiO₂ nanocomposites.

Journal of Physics-Condensed Matter 12(14): 3397-3399.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, UNICAMP, BR-13083970 Campinas, SP, Brazil. Hong Kong Univ Sci & Technol, Dept Phys, Hong Kong, Hong Kong, Peoples R China.

Denardin, JC, Univ Estadual Campinas, Inst Fis Gleb Wataghin, UNICAMP, CP 6165, BR-13083970 Campinas, SP, Brazil.

Diniz, J.A., Sotero, A.P., Lujan, G.S., Tasch, P.T. and Swart, J.W. (2000).

High Quality ultra-thin oxynitride films formed by low-energy nitrogen implantation into Silicon with additional plasma of thermal oxidation.

Nuclear Instruments and Methods in Physics Research, B 166/167: 64-69.

Faculdade de Engenharia Elétrica e de Computação

dos Santos, D.R., Torriani, I.L., Silva, F.C.S. and Knobel, M. (2000).

In-situ small-angle scattering study on the formation of a nano-crystalline soft-magnetic alloy.

Journal of Applied Crystallography 33(1): 473-477.

Lab NaCl Luz Sincrotron, Campinas, SP, Brazil. UNICAMP, Inst Fis, Campinas, SP, Brazil.

Torriani, IL, Lab NaCl Luz Sincrotron, Campinas, SP, Brazil.

 Filho, J.R., Lemos, V., de Sousa, J.S., Farias, G.A. and Freire, V.N. (2000).
 Nonabrupt interface related exciton energy shifts in GaN/Al(x)Ga(1-x)N

quantum dots. Silicon Carbide and Related Materials - 1999 Pts, 1 & 2.
338-3: 1567-1570.

Hall, B.D., Zanchet, D. and Ugarte, D. (2000).

Estimating nanoparticle size from diffraction measurements.

Journal of Applied Crystallography 33: 1335-1341.

Measurement Stand Lab New Zealand, Lower Hutt, New Zealand.

UNICAMP, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Lab

NaCl Luz Sincrotron, BR-13083970 Campinas, SP, Brazil.

Hall, BD, Measurement Stand Lab New Zealand, POB 31-310, Lower Hutt,
 New Zealand.

Hassan, S.A., Vasconcellos, A.R., Mesquita, M.V. and Luzzi, R. (2000).

Optical properties of nonequilibrium low-dimensional systems.

Physical Review E 61(1): 71-76.

CUNY Mt Sinai Sch Med, Dept Physiol & Biophys, New York, NY 10029

USA. Univ Estadual Campinas, Inst Fis Gleb Wataghin, UNICAMP, BR-
 13083970 Campinas, SP, Brazil.

Hassan, SA, CUNY Mt Sinai Sch Med, Dept Physiol & Biophys, Box 1218,
 New York, NY 10029 USA.

Hawrylak, P., Narvaez, G.A., Bayer, M. and Forchel, A. (2000).

Excitonic absorption in a quantum dot.

Physical Review Letters 85(2): 389-392.

Natl Res Council Canada, Inst Microstruct Sci, Ottawa, ON K1A 0R6,

Canada. Univ Wurzburg, D-97094 Wurzburg, Germany. Univ Estadual

Campinas, DFESCM, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP,
 Brazil.

Hawrylak, P, Natl Res Council Canada, Inst Microstruct Sci, Ottawa, ON
 K1A 0R6, Canada.

Herbst, M.H., Pinhal, N.M., Demetrio, F.A.T., Dias, G.H.M. and Vugnan, N.V. (2000).

Solid-state structural studies on amorphous platinum-fullerene 60
 compounds PtnC60 (n=1,2).

Journal of Non-Crystalline Solids 272(2-3): 127-130.

Univ Estadual Campinas, Inst Quim, BR-13083970 Campinas, SP, Brazil.
 Univ Fed Rio de Janeiro, Inst Fis, BR-21945970 Rio De Janeiro, Brazil.
 Herbst, MH, Univ Estadual Campinas, Inst Quim, BR-13083970 Campinas,
 SP, Brazil.

Kopelevich, Y., Esquinazi, P., Torres, J.H.S. and Moehlecke, S. (2000).

Ferromagnetic- and superconducting-like behavior of graphite.

Journal of Low Temperature Physics 119(5-6): 691-702.

Univ Leipzig, Inst Expt Phys 2, Dept Superconduct & Magnetism, D-04103
 Leipzig, Germany. Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-
 13083970 Campinas, SP, Brazil.

Kopelevich, Y, Univ Leipzig, Inst Expt Phys 2, Dept Superconduct &
 Magnetism, Linnestr 5, D-04103 Leipzig, Germany.

 Lemos, V., Silveira, E., Leite, J.R., Tabata, A., Trentin, R., Frey, T., As,
 D.J., Schikora, D. and Lischka, K. (2000). Resonant Raman scattering and
 the emission process in zincblende-In_xGa_{1-x}N. Silicon Carbide and Related
 Materials - 1999 Pts, 1 & 2. **338-3**: 1595-1598.

**Lemos, V., Silveira, E., Leite, J.R., Tabata, A., Trentin, R., Scolfaro,
 L.M.R., Frey, T., As, D.J., Schikora, D. and Lischka, K. (2000).**

Evidence for phase-separated quantum dots in cubic InGaN layers from
 resonant Raman scattering.

Physical Review Letters 84(16): 3666-3669.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas,
 SP, Brazil. Univ Sao Paulo, Inst Fis, BR-05315970 Sao Paulo, Brazil. Univ
 Gesamthsch Paderborn, FB Phys 6, D-33095 Paderborn, Germany.

Lemos, V, Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970
 Campinas, SP, Brazil.

Martini, M. and De Paoli, M.A. (2000).

Action spectra of EE and SE illuminated polypyrrole-dodecylsulphate films
 in aqueous solutions.

Solar Energy Materials and Solar Cells 60(1): 73-83.

Univ Estadual Campinas, Inst Quim, Lab Polimeros Condutores &
 Reciclagem, BR-13081970 Campinas, SP, Brazil.

De Paoli, MA, Univ Estadual Campinas, Inst Quim, Lab Polimeros Condutores & Reciclagem, C Postal 6154, BR-13081970 Campinas, SP, Brazil.

Munoz, M., Pollack, F.H., Zakia, M.B., Patel, N.B. and Herrera, J.L. (2000).

Temperature Dependence of the Energy and Broadening Parameter of the Fundamental Band Gap of GaSb and Ga(1-x)In(x)As(y)Sb(1-y)/GaSb Quaternary Alloys using Infrared-Photoreflectance.

Physical Review B 62: 16600-16604.

Faculdade de Engenharia Elétrica e de Computação

Narvaez, G.A. and Hawrylak, P. (2000).

Effects of electron-electron interactions on excitonic absorption in charged self-assembled quantum dots.

Physical Review B 61(20): 13753-13762.

Natl Res Council Canada, Inst Microstruct Sci, Ottawa, ON K1A 0R6, Canada. Univ Estadual Campinas, Inst Fis Gleb Wataghin, DFESCM, BR-13083970 Campinas, SP, Brazil.

Narvaez, GA, Natl Res Council Canada, Inst Microstruct Sci, Ottawa, ON K1A 0R6, Canada.

Nogueira, A.F. and De Paoli, M.A. (2000).

A dye sensitized TiO₂ photovoltaic cell constructed with an elastomeric electrolyte.

Solar Energy Materials and Solar Cells 61(2): 135-141.

UNICAMP, Inst Quim, Lab Polimeros Condutores & Reciclagem, BR-13083970 Campinas, SP, Brazil.

De Paoli, MA, UNICAMP, Inst Quim, Lab Polimeros Condutores & Reciclagem, C Postal 6154, BR-13083970 Campinas, SP, Brazil.

Pastore, H.O., Munsignatti, M. and Mascarenhas, A.J.S. (2000).

One-step synthesis of alkyltrimethylammonium-intercalated magadiite.

Clays and Clay Minerals 48(2): 224-229.

Univ Estadual Campinas, Inst Quim, BR-13083970 Campinas, SP, Brazil.
Pastore, HO, Univ Estadual Campinas, Inst Quim, CP 6154, BR-13083970
Campinas, SP, Brazil.

Rangel, E.C., da Cruz, N.C., de Moraes, M.A.B. and Lepienski, C.M. (2000).

Influence of Ar⁺ ion irradiation on the properties of plasma polymerized acetylene films.

Surface & Coatings Technology 127(1): 93-98.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Univ Fed Parana, Dept Fis, BR-81531990 Curitiba, Parana, Brazil.

de Moraes, MAB, Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

Rasnik, I., Brasil, M., Cerdeira, F., Mendonca, C.A.C. and Cotta, M.A. (2000).

Light scattering and atomic force microscopy study of InAs island formation on InP.

Journal of Applied Physics 87(3): 1165-1171.

UNICAMP, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

Rasnik, I, UNICAMP, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

Ribeiro, E., Cerdeira, F., Brasil, M., Heinzl, T., Ensslin, K., Medeiros-Ribeiro, G. and Petroff, P.M. (2000).

An optical study of self-assembled In_xGa_{1-x}As/GaAs quantum dots embedded in a two-dimensional electron gas.

Journal of Applied Physics 87(11): 7994-7998.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. ETH Zurich, Festkorperphys Lab, CH-8093 Zurich, Switzerland. Univ Calif Santa Barbara, Dept Mat, Santa Barbara, CA 93106 USA.

Ribeiro, E, Univ Estadual Campinas, Inst Fis Gleb Wataghin, Caixa Postal 6165, BR-13083970 Campinas, SP, Brazil.

Rodrigues, V., Fuhrer, T. and Ugarte, D. (2000).

Signature of atomic structure in the quantum conductance of gold nanowires.

Physical Review Letters 85(19): 4124-4127.

Lab Nacl Luz Sincrotron, BR-13083970 Campinas, SP, Brazil. Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Ugarte, D, Lab Nacl Luz Sincrotron, CP 6192, BR-13083970 Campinas, SP, Brazil.

Teschke, O., Ceotto, G. and de Souza, E.F. (2000).

Imaging of soft structures: Dependence of contrast in atomic force microscopy images on the force applied by the tip.

Journal of Vacuum Science & Technology B 18(3): 1144-1150.

UNICAMP, IFGW, Nanostruct Lab, BR-13081970 Campinas, SP, Brazil. Univ Fed Vicosa, Dept Fis, BR-36571000 Vicosa, MG, Brazil. Pontificia Univ Catolica Campinas, Inst Ciencias Biol & Quim, BR-13020904 Campinas, SP, Brazil.

Teschke, O, UNICAMP, IFGW, Nanostruct Lab, BR-13081970 Campinas, SP, Brazil.

Teschke, O., Ceotto, G. and de Souza, E.F. (2000).

Interfacial aqueous solutions dielectric constant measurements using atomic force microscopy.

Chemical Physics Letters 326(3-4): 328-334.

Univ Estadual Campinas, IFGW, Nanostruct Lab, BR-13081970 Campinas, SP, Brazil. Univ Fed Vicosa, Dept Fis, BR-36571000 Vicosa, MG, Brazil. Pontificia Univ Catolica Campinas, Inst Ciencias Biol & Quim, BR-13020904 Campinas, SP, Brazil.

Teschke, O, Univ Estadual Campinas, IFGW, Nanostruct Lab, BR-13081970 Campinas, SP, Brazil.

Tudury, G.E., Marquezini, M.V., Ferreira, L.G., Barbosa, L.C. and Cesar, C.L. (2000).

Effect of band anisotropy on electronic structure of PbS, PbSe, and PbTe quantum dots.

Physical Review B 62(11): 7357-7364.

Univ Estadual Campinas, Inst Fis, BR-13083970 Campinas, SP, Brazil.
 Tudury, GE, Univ Estadual Campinas, Inst Fis, Caixa Postal 6165, BR-13083970 Campinas, SP, Brazil.

Zanchet, D., Hall, B.D. and Ugarte, D. (2000).

Structure population in thiol-passivated gold nanoparticles.

Journal of Physical Chemistry B 104(47): 11013-11018.

LNLS, BR-13084971 Campinas, SP, Brazil. UNICAMP, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Measurement Stand Lab New Zealand, Lower Hutt, New Zealand.
 Zanchet, D, LNLS, CP 6192, BR-13084971 Campinas, SP, Brazil.

Zanchet, D., Tolentino, H., Alves, M.C.M., Alves, O.L. and Ugarte, D. (2000).

Inter-atomic distance contraction in thiol-passivated gold nanoparticles.

Chemical Physics Letters 323(1-2): 167-172.

Lab NaCl Luz Sincrotron, BR-13083970 Campinas, SP, Brazil. Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.
 Univ Estadual Campinas, LQES, Inst Quim, BR-13083970 Campinas, SP, Brazil.
 Ugarte, D, Lab NaCl Luz Sincrotron, CP 6192, BR-13083970 Campinas, SP, Brazil.

1999

Acosta-Avalos, D., Wajnberg, E., Oliveira, P.S., Leal, I., Farina, M. and Esquivel, D.M.S. (1999).

Isolation of magnetic nanoparticles from *Pachycondyla marginata* ants.

Journal of Experimental Biology 202(19): 2687-2692.

Ctr Brasileiro Pesquisas Fis, Dept Mat Condensada & Espectroscopia, BR-22290180 Rio De Janeiro, Brazil. Univ Estadual Campinas, Dept Zool, BR-13083970 Campinas, SP, Brazil. Univ Fed Rio de Janeiro, Ctr Ciencias Saude, Dept Anat, BR-21941590 Rio De Janeiro, Brazil.
 Esquivel, DMS, Ctr Brasileiro Pesquisas Fis, Dept Mat Condensada & Espectroscopia, Rua Xavier Sigaud 150, BR-22290180 Rio De Janeiro, Brazil.

Albuquerque, A.S., Ardisson, J.D. and Macedo, W.A.A. (1999).

A study of nanocrystalline NiZn-ferrite-SiO₂ synthesized by sol-gel.

Journal of Magnetism and Magnetic Materials 192(2): 277-280.

Ctr Desenvolvimento Tecnol Nucl, Lab Fis Aplicada, BR-30123970 Belo Horizonte, MG, Brazil. Univ Estadual Campinas, Fac Engn Quim, BR-13083970 Campinas, Brazil.

Macedo, WAA, Ctr Desenvolvimento Tecnol Nucl, Lab Fis Aplicada, BR-30123970 Belo Horizonte, MG, Brazil.

wmacedo@urano.cdtb.br

Allia, P., Coisson, M., Knobel, M., Tiberto, P. and Vinai, F. (1999).

Magnetic hysteresis based on dipolar interactions in granular magnetic systems.

Physical Review B 60(17): 12207-12218.

Politecn Turin, Dipartimento Fis, I-10129 Turin, Italy. Politecn Turin, Res Unit, INFM, I-10129 Turin, Italy. Politecn Turin, Dipartimento Elettron, I-10129 Turin, Italy. UNICAMP, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Ist Elettrotecn Nazl Galileo Ferraris, I-10125 Turin, Italy. Politecn Turin, Res Unit, INFM, I-10125 Turin, Italy.

Allia, P, Politecn Turin, Dipartimento Fis, Corso Duca Abruzzi 24, I-10129 Turin, Italy.

Allia, P., Coisson, M., Tiberto, P., Vinai, F. and Knobel, M. (1999).

Magnetic hysteresis in granular CuCo alloys.

Journal of Applied Physics 85(8): 4343-4345.

Politecn Torino, Dipartimento Fis, I-10129 Turin, Italy. Politecn Torino, INFM, I-10129 Turin, Italy. Ist Elettrotecn Nazl Galileo Ferraris, I-10125 Turin, Italy. INFM, I-10125 Turin, Italy. Univ Estadual Campinas, IFGW, LMBT, BR-18083970 Campinas, SP, Brazil.

Allia, P, Politecn Torino, Dipartimento Fis, Corso Duca Abruzzi 42, I-10129 Turin, Italy.

Alves, J.J.N. and Mori, M. (1999).

Analyses of parametric sensitivity in the kinetic theory of granular flows on the prediction of the fluid dynamics of circulating fluidised bed reactors.

Computers & Chemical Engineering 23: S757-S760.

Univ Fed Paraiba, Ctr Ciencias & Tecnol, Dept Engn Quim, BR-58109000 Campinas, SP, Brazil. Univ Estadual Campinas, Fac Engn Quim, Dept Proc Quim, BR-13081970 Campinas, SP, Brazil.

Alves, JJN, Univ Fed Paraiba, Ctr Ciencias & Tecnol, Dept Engn Quim, BR-58109000 Campinas, SP, Brazil.

Araujo-Moreira, F.M.,tíz, W.A. and de Lima, O.F. (1999).

Multilevel granular structure and its coupling distribution in melt-textured YBa₂Cu₃O₇-delta.

Physica C-Superconductivity and Its Applications 311(1-2): 98-106.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Univ Fed Sao Carlos, Dept Fis, Grp Supercondut & Magnetismo, BR-13565905 Sao Carlos, SP, Brazil.

de Lima, OF, Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

delima@ifi.unicamp.br

Baibich, M.N., Miranda, M.G.M., Rodriguez, G.J.B., Antunes, A.B., Rakoto, H., Negre, N., Goiran, M., Broto, J.M., Ferrari, E.F., da Silva, F.C.S. and Knobel, M. (1999).

Magneto-transport in granular ribbons at high magnetic fields.

Journal of Magnetism and Magnetic Materials 197: 45-47.

Univ Fed Rio Grande Sul, Inst Fis, BR-91501970 Porto Alegre, RS, Brazil. Inst Natl Sci Appl, LPMC, SNCMP, F-31077 Toulouse, France. UNICAMP, Inst Fis Gleb Wataghin, Campinas, SP, Brazil.

Baibich, MN, Univ Fed Rio Grande Sul, Inst Fis, CP 15051, BR-91501970 Porto Alegre, RS, Brazil.

Baranauskas, V., Li, B.B., Peterlevitz, A.C., Tosin, M.C. and Durrant, S.F. (1999).

Structure and properties of diamond films deposited on porous silicon.

Thin Solid Films 356: 233-238.

Univ Estadual Campinas, Fac Elect & Comp Engn, BR-13083970 Campinas, SP, Brazil.

Baranauskas, V, Univ Estadual Campinas, Fac Elect & Comp Engrn, Av Albert Einstein N-400, BR-13083970 Campinas, SP, Brazil.

Bittencourt, C. (1999).

Formation of a SiC buffer layer by reaction of Si (100) with methane and hydrogen plasma.

Journal of Physics D-Applied Physics 32(19): 2478-2482.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

Bittencourt, C, Univ Warwick, Dept Phys, Coventry CV4 7AL, W Midlands, England.

Bittencourt, C. (1999).

Reaction of Si (100) with silane-methane low-power plasma: SiC buffer-layer formation.

Journal of Applied Physics 86(8): 4643-4648.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

Bittencourt, C, Univ Warwick, Dept Phys, Coventry CV4 7AL, W Midlands, England.

Bruno-Alfonso, A., Ribeiro, F.J., Latge, A. and Oliveira, L.E. (1999).

Longitudinal effective mass and band structure of quasiperiodic Fibonacci superlattices.

Physical Review B 59(3): 2057-2062.

Univ Fed Fluminense, Inst Fis, BR-24210340 Niteroi, RJ, Brazil. Univ Estadual Campinas, UNICAMP, Inst Fis, BR-13083970 Campinas, SP, Brazil.

Bruno-Alfonso, A, Univ Fed Fluminense, Inst Fis, Ave Litoranea Sn, BR-24210340 Niteroi, RJ, Brazil.

Chiriac, H., Ovari, T.A., Marinescu, C.S. and Knobel, M. (1999). Role of soft magnetic properties on the sensitivity of the giant magneto-impedance effect. Magnetism, Magnetic Materials and Their Applications.

302-3: 234-238.

Coluci, V.R., Cotta, M.A. and de Carvalho, M.M.G. (1999).

Growth of Be-doped homoepitaxial GaAs films on rough substrates.

Journal of Crystal Growth 205(1-2): 36-42.

Univ Estadual Campinas, IFGW, DFA, LPD, BR-13081970 Campinas, SP, Brazil.

Cotta, MA, Univ Estadual Campinas, IFGW, DFA, LPD, CP 6165, Cidade Univ Zeferino Vaz, BR-13081970 Campinas, SP, Brazil.

da Fonseca, M.G. and Airoidi, C. (1999).

Phyllosilicate-like structure anchored silylating agents: calorimetric data on divalent cation-aminated centre interactions in the lamellar cavity.

Journal of the Chemical Society-Dalton Transactions(21): 3687-3692.

Univ Estadual Campinas, Inst Quim, BR-13081970 Campinas, SP, Brazil.

Airoidi, C, Univ Estadual Campinas, Inst Quim, Caixa Postal 6154, BR-13081970 Campinas, SP, Brazil.

de Carvalho, W., Bernussi, A.A., Furtado, M.T., Gobbi, A.L. and Cotta, M. (1999).

Morphological, optical and structural properties of zero-net-strained InGaAsP/InP structures grown by LP-MOVPE for 1.55 μm laser applications.

Brazilian Journal of Physics 29(4): 839-842.

Lab Nacl Luz Sincrotron, Fdn Ctr Pesquisa & Desenvolvimento Telecomun, Fdn CPqD, Campinas, SP, Brazil. UNICAMP, Lab Pesquisa Dispostivos, DFA, Campinas, SP, Brazil.

de Carvalho, W, Lab Nacl Luz Sincrotron, Fdn Ctr Pesquisa & Desenvolvimento Telecomun, Fdn CPqD, Campinas, SP, Brazil.

dos Santos, D.R., Torriani, I.L., Silva, F.C.S. and Knobel, M. (1999).

Structural and magnetic properties of the nanocrystalline alloy Fe₈₆Zr₇Cu₁B₆.

Journal of Applied Physics 86(12): 6993-7000.

Lab Nacl Luz Sincrotron, BR-13038970 Campinas, SP, Brazil. Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13038970 Campinas, SP, Brazil.

dos Santos, DR, Lab Nacl Luz Sincrotron, CP 6192, BR-13038970
Campinas, SP, Brazil.

Ferrari, E.F., da Silva, F.C.S. and Knobel, M. (1999).

Theory of giant magnetoresistance in granular alloys.

Physical Review B 59(13): 8412-8415.

Univ Estadual Campinas, UNICAMP, Inst Fis Gleb Wataghin, BR-13083970
Campinas, SP, Brazil.

Ferrari, EF, Univ Estadual Campinas, UNICAMP, Inst Fis Gleb Wataghin, CP
6165, BR-13083970 Campinas, SP, Brazil.

Ferrari, E.F., Nunes, W.C. and Novak, M.A. (1999).

Coercivity extrema in melt-spun CuCo ribbons: Effects of the magnetic
moment distribution.

Journal of Applied Physics 86(6): 3010-3014.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Sao Paulo,
Brazil. Univ Fed Rio de Janeiro, Inst Fis, BR-21945970 Rio De Janeiro,
Brazil.

Ferrari, EF, Johns Hopkins Univ, Dept Phys & Astron, Baltimore, MD 21218
USA.

Gimenez, I.F. and Alves, O.L. (1999).

Formation of a novel polypyrrole porous phosphate glass ceramic
nanocomposite.

Journal of the Brazilian Chemical Society 10(2): 167-168.

UNICAMP, Inst Quim, Lab Quim Estado Solido, BR-13083970 Campinas,
SP, Brazil.

Gimenez, IF, UNICAMP, Inst Quim, Lab Quim Estado Solido, CP 6154, BR-
13083970 Campinas, SP, Brazil.

Hassan, S.A., Vasconcellos, A.R. and Luzzi, R. (1999).

Photoinjected plasma in semiconductor quantum wires: Soft-like upper
plasmon.

Euromphysics Letters 45(5): 633-637.

Univ Estadual Campinas, UNICAMP, Inst Fis Gleb Wataghin, BR-13083970
Sao Paulo, Brazil.

Hassan, SA, CUNY Mt Sinai Sch Med, Dept Physiol & Biophys, Box 1218,
New York, NY 10029 USA.

Hayashi, M.A., Avanci, L.H., Cardoso, L.P., Bettini, J., Carvalho, M.M.G.d., Morelhaio, S.L. and Collins, S.P. (1999).

High Resolution Synchrotron Radiation Renninger Scan to Examine Hybrid Reflections in InGaP/GaAs.

Journal of Synchrotron Radiation 6: 29-33.

IFGW

Knobel, M., Ferrari, E.F. and Silva, F.C.S. (1999). Investigating giant magnetoresistance in granular alloys by experiments and simulations. Magnetism, Magnetic Materials and Their Applications. **302-3**: 169-178.

Kuzminski, M., Slawska-Waniewska, A., Lachowicz, H.K. and Knobel, M. (1999).

The effect of particle size and surface-to-volume ratio distribution on giant magnetoresistance (GMR) in melt-spun Cu-Co alloys.

Journal of Magnetism and Magnetic Materials 205(1): 7-13.

Polish Acad Sci, Inst Phys, PL-02668 Warsaw, Poland. UNICAMP, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

Kuzminski, M, Polish Acad Sci, Inst Phys, Al Lotnikow 32-46, PL-02668 Warsaw, Poland.

Malinowska, M., Wojcik, M., Nadolski, S., Jedryka, E., Meny, C., Panissod, P., Knobel, M., Viegas, A.D.C. and Schmidt, J.E. (1999).

Identification of magnetic phases in granular Co₁₀Cu₉₀ alloy using Co-59 NMR method.

Journal of Magnetism and Magnetic Materials 199: 599-601.

Polish Acad Sci, Inst Phys, PL-02668 Warsaw, Poland. Inst Phys & Chim Mat Strasbourg, F-67037 Strasbourg, France. Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Univ Fed Rio Grande Sul, Inst Fis, BR-91501970 Porto Alegre, RS, Brazil.

Jedryka, E, Polish Acad Sci, Inst Phys, Al Lotnikow 32-46, PL-02668 Warsaw, Poland.

Micaroni, L., Dini, D., Decker, F. and De Paoli, M.A. (1999).

Electrosynthesis and characterization of poly(3-methylthiophene) on different substrates.

Journal of Solid State Electrochemistry 3(6): 352-356.

UNICAMP, Inst Quim, Lab Polimeros Condutores & Reciclagem, BR-13083970 Campinas, SP, Brazil. Univ Rome La Sapienza, Dipartimento Chim, I-00185 Rome, Italy.

De Paoli, MA, UNICAMP, Inst Quim, Lab Polimeros Condutores & Reciclagem, C Postal 6154, BR-13083970 Campinas, SP, Brazil.

Monteiro, V.A.D., de Souza, E.F., de Azevedo, M.M.M. and Galembeck, F. (1999).

Aluminum polyphosphate nanoparticles: Preparation, particle size determination, and microchemistry.

Journal of Colloid and Interface Science 217(2): 237-248.

Univ Estadual Campinas, Inst Quim, BR-13083970 Campinas, SP, Brazil.

Pontificia Univ Catolica Campinas, Inst Ciencias Biol & Quim, BR-13020904 Campinas, SP, Brazil.

Galembeck, F, Univ Estadual Campinas, Inst Quim, POB 6154, BR-13083970 Campinas, SP, Brazil.

Moya, J.A., Arcondo, B., Sirkin, H., Sartorelli, M.L., Knobel, M. and Vazquez, M. (1999).

GMI of Al-substituted Fe-Si-B-Cu-Nb nanocrystalline ribbons.

Journal of Magnetism and Magnetic Materials 203: 117-119.

Univ Buenos Aires, Fac Ingn, Dept Fis, Lab Solidos Amorfos, RA-1063 Cap Federal, Argentina. Univ Estadual Campinas, Inst Fis Gleb Wataghin, UNICAMP, BR-13087970 Campinas, Brazil. Inst Magnetismo Aplicado, Madrid 28230, Spain.

Sartorelli, ML, Univ Fed Santa Catarina, CFM, Dept Fis, Caixa Postal 476, Campus Univ, BR-88040900 Florianopolis, SC, Brazil.

Nie, H.B., Pakhomov, A.B., Yan, X., Zhang, X.X. and Knobel, M. (1999).

Giant magnetoimpedance in crystalline Mumetal.

Solid State Communications 112(5): 285-289.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. Hong Kong Univ Sci & Technol, Dept Phys, Hong Kong, Peoples R China.

Knobel, M, Univ Estadual Campinas, Inst Fis Gleb Wataghin, CP 6165, BR-13083970 Campinas, SP, Brazil.

Nogueira, A.F., Micaroni, L., Gazotti, W.A. and De Paoli, M.A. (1999).

Enhanced photoresponse of poly(3-methylthiophene) supported on TiO₂.

Electrochemistry Communications 1(7): 262-265.

Univ Estadual Campinas, Inst Quim, Lab Polimeros Condutores & Reciclagem, BR-13083970 Campinas, SP, Brazil. Univ Fed Parana, Dept Quim, BR-80060000 Curitiba, Parana, Brazil.

De Paoli, MA, Univ Estadual Campinas, Inst Quim, Lab Polimeros Condutores & Reciclagem, Caixa Postal 6154, BR-13083970 Campinas, SP, Brazil.

Pirola, K.R., Sartorelli, M.L., Knobel, M., Gutierrez, J. and Barandiaran, J.M. (1999).

Influence of induced anisotropy and magnetostriction on the giant magnetoimpedance effect and its aftereffect in soft magnetic amorphous ribbons.

Journal of Magnetism and Magnetic Materials 202(2-3): 431-444.

Univ Estadual Campinas, UNICAMP, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. UPV, EHU, Dept Electricidad & Elect, Bilbao 48080, Spain.

Knobel, M, Univ Estadual Campinas, UNICAMP, Inst Fis Gleb Wataghin, CP 6165, BR-13083970 Campinas, SP, Brazil.

Rasnik, I., Rego, L.G.C., Marquezini, M.V., Triques, A.L.C., Brasil, M., Brum, J.A. and Cotta, M.A. (1999).

Confinement versus localization for quantum wells and quantum wires in a self-assembled structure.

Superlattices and Microstructures 25(1-2): 137-141.

UNICAMP, DFESCM, Inst Fis, BR-13083970 Campinas, SP, Brazil.

Rasnik, I, UNICAMP, DFESCM, Inst Fis, BR-13083970 Campinas, SP, Brazil.

Redigolo, M.L., Arellano, W.A., Barbosa, L.C., Cruz, C.H.B., Cesar, C.L. and de Paula, A.M. (1999).

Temperature dependence of the absorption spectra in CdTe-doped glasses.
Semiconductor Science and Technology 14(1): 58-63.

Univ Estadual Campinas, Inst Fis, BR-13083970 Campinas, SP, Brazil. Univ
 Sao Francisco, BR-12900000 Braganca Paulista, SP, Brazil.

Redigolo, ML, Univ Estadual Campinas, Inst Fis, Caixa Postal 6165, BR-
 13083970 Campinas, SP, Brazil.

Ribeiro, E., Jaggi, R., Heinzl, T., Ensslin, K., Medeiros-Ribeiro, G. and Petroff, P.M. (1999).

Metal-insulator transition at $B=0$ in an AlGaAs/GaAs two-dimensional
 electron gas under the influence of InAs self-assembled quantum dots.

Brazilian Journal of Physics 29(4): 742-745.

UNICAMP, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil. ETH
 Zurich, Solid State Phys Lab, CH-8093 Zurich, Switzerland. Univ Calif
 Santa Barbara, Dept Mat, Santa Barbara, CA 93106 USA.

Ribeiro, E, UNICAMP, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP,
 Brazil.

Ribeiro, E., Jaggi, R.D., Heinzl, T., Ensslin, K., Medeiros-Ribeiro, G. and Petroff, P.M. (1999).

Metal-insulator transition in a disordered two-dimensional electron gas in
 GaAs-AlGaAs at zero magnetic field.

Physical Review Letters 82(5): 996-999.

ETH Zurich, Solid State Phys Lab, CH-8093 Zurich, Switzerland. Univ Calif
 Santa Barbara, Dept Mat, Santa Barbara, CA 93106 USA.

Ribeiro, E, Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13081970
 Campinas, SP, Brazil.

Riul, A., Dhanabalan, A., Cotta, M.A., Herrmann, P.S.P., Mattoso, L.H.C., MacDiarmid, A.G. and Oliveria, O.N. (1999).

AFM studies of composite 16-mer polyaniline Langmuir-Blodgett (LB) films.

Synthetic Metals 101(1-3): 830-831.

Univ Sao Paulo, Inst Fis Sao Carlos, BR-13560970 Sao Carlos, SP, Brazil.
 UNICAMP, Inst Fis Gleb Wataghin, Campinas, SP, Brazil. EMBRAPA,
 CNPDIA, Sao Carlos, SP, Brazil. Univ Penn, Dept Chem, Philadelphia, PA
 19104 USA.

Riul, A, Univ Sao Paulo, Inst Fis Sao Carlos, CP 369, BR-13560970 Sao
 Carlos, SP, Brazil.

Sforca, M.L., Yoshida, I.V.P. and Nunes, S.P. (1999).

Organic-inorganic membranes prepared from polyether diamine and epoxy
 silane.

Journal of Membrane Science 159(1-2): 197-207.

GKSS Forschungszentrum Geesthacht GmbH, Inst Chem, D-21502
 Geesthacht, Germany. Univ Campinas, Inst Chem, Campinas, Brazil.
 Nunes, SP, GKSS Forschungszentrum Geesthacht GmbH, Inst Chem,
 Postfach 11 60, D-21502 Geesthacht, Germany.

Zanchet, D., Moreno, M.S. and Ugarte, D. (1999).

Anomalous packing in thin nanoparticle supercrystals.

Physical Review Letters 82(26): 5277-5280.

Lab Nacl Luz Sincrotron, BR-13083970 Campinas, SP, Brazil. Univ Estadual
 Campinas, Inst Fis Gleb Wataghin, BR-13081970 Campinas, SP, Brazil.
 Ugarte, D, Lab Nacl Luz Sincrotron, CP 6192, BR-13083970 Campinas, SP,
 Brazil.

Zarbin, A.J.G., De Paoli, M.A. and Alves, O.L. (1999).

Nanocomposites glass conductive polymers.

Synthetic Metals 99(3): 227-235.

Univ Fed Parana, Dept Quim, UFPR, BR-81531990 Curitiba, Parana, Brazil.
 Univ Estadual Campinas, Inst Quim, Lab Polimeros Condutores, BR-
 13083970 Campinas, SP, Brazil. Univ Estadual Campinas, Inst Quim, Lab
 Quim Estado Solido, BR-13083970 Campinas, SP, Brazil.

Zarbin, AJG, Univ Fed Parana, Dept Quim, UFPR, Caixa Postal 19081, BR-
 81531990 Curitiba, Parana, Brazil.

aldo@quimica.ufpr.br

Zarbin, A.J.G., Maia, D.J., De Paoli, M.A. and Alves, O.L. (1999).

Polyaniline intercalation in $\alpha\text{-Sn}(\text{HPO}_4)(2)\cdot\text{H}_2\text{O}$.

Synthetic Metals 102(1-3): 1277-1278.

Univ Fed Parana, UFPR, Dept Quim, BR-81531990 Curitiba, Parana, Brazil.

Univ Estadual Campinas, Inst Quim, Lab Quim Est Sol, BR-13081970

Campinas, SP, Brazil. Univ Estadual Campinas, Inst Quim, Lab Pol Cond,

BR-13081970 Campinas, SP, Brazil.

Zarbin, AJG, Univ Fed Parana, UFPR, Dept Quim, CP 19081, BR-81531990

Curitiba, Parana, Brazil.

Zarbin, A.J.G., Vargas, M.D. and Alves, O.L. (1999).

Thermal decomposition of $\text{M-3}(\text{CO})(12)$ ($\text{M} = \text{Ru}, \text{Os}$) physisorbed onto porous Vycor glass: a route to a glass/ RuO_2 nanocomposite.

Journal of Materials Chemistry 9(2): 519-523.

Univ Estadual Campinas, UNICAMP, Lab Quim Estado Solido, BR-13081970

Campinas, SP, Brazil. Univ Estadual Campinas, UNICAMP, Inst Quim,

Labganomet, BR-13081970 Campinas, SP, Brazil.

Alves, OL, Univ Fed Parana, Dept Quim, CP 19081, BR-81531990 Curitiba, Parana, Brazil.

aldo@quimica.ufpr.br mdvargas@iqm.unicamp.br oalves@iqm.unicamp.br

1998

Aichmayr, G., Toet, D., Mulato, M., Santos, P.V., Spangenberg, A. and Bergmann, R.B. (1998).

Growth mechanisms in laser crystallization and laser interference crystallization.

Journal of Non-Crystalline Solids 230: 921-924.

Max Planck Inst Festkorperforsch, D-70569 Stuttgart, Germany. Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, Brazil.

Toet, D, Univ Calif Lawrence Livermore Natl Lab, Livermore, CA 94550 USA.

toet1@llnl.gov

Alves, J.J.N. and Mori, M. (1998).

Fluid dynamic modelling and simulation of circulating fluidized bed reactors: analyses of particle phase stress models.

Computers & Chemical Engineering 22: S763-S766.

Univ Fed Paraiba, Dept Engn Quim, Ctr Ciencias & Tecnol, BR-58059900 Joao Pessoa, Paraiba, Brazil. Univ Estadual Campinas, Dept Processos Quim, Fac Engn Quim FEQ, BR-13081970 Campinas, SP, Brazil.

Alves, JJN, Univ Fed Paraiba, Dept Engn Quim, Ctr Ciencias & Tecnol, BR-58059900 Joao Pessoa, Paraiba, Brazil.

Avanci, L.H., Hayashi, M.A., Cardoso, L.P., Morelhao, S.L., Riesz, F., Rakennus, K. and Hakkarainen, T. (1998).

Mapping of Bragg-Surface Diffraction of InP/GaAs(100) Structure.

Journal of Crystal Growth 188: 220-224.

IFGW

Baranauskas, V., Vidal, B.C. and Parizotto, N.A. (1998).

Observation of geometric structure of collagen molecules by atomic force microscopy.

Applied Biochemistry and Biotechnology 69(2): 91-97.

State Univ Campinas, Dept Semicond & Photon, BR-13083 Campinas, SP, Brazil. State Univ Campinas, Dept Cell Biol, BR-13083 Campinas, SP, Brazil. Univ Fed Sao Carlos, Dept Physiotherapy, BR-13560 Sao Carlos, SP, Brazil.

Baranauskas, V, State Univ Campinas, Dept Semicond & Photon, Av Albert Einstein,N-400,POB 6101, BR-13083 Campinas, SP, Brazil.

Betancur, F.J., Mikhailov, I.D. and Oliveira, L.E. (1998).

Shallow donor states in GaAs-(Ga,Al)As quantum dots with different potential shapes.

Journal of Physics D-Applied Physics 31(23): 3391-3396.

Univ Ind Santander, Dept Fis, Bucaramanga, Colombia. Univ Estadual Campinas, Inst Fis, BR-13083970 Campinas, SP, Brazil.

Betancur, FJ, Univ Ind Santander, Dept Fis, AA 678, Bucaramanga, Colombia.

Cardoso, A.H., Leite, C.A.P., Zaniquelli, M.E.D. and Galembeck, F. (1998).

Easy polymer latex self-assembly and colloidal crystal formation: the case of poly styrene-co-(2-hydroxyethyl methacrylate).

Colloids and Surfaces a-Physicochemical and Engineering Aspects 144(1-3): 207-217.

Univ Estadual Campinas, Inst Quim, BR-13083970 Campinas, SP, Brazil.

Univ Sao Paulo, Dept Quim, Fac Filosofia Ciencias & Letras Ribeirao Pret, BR-14040901 Ribeirao Preto, SP, Brazil.

Galembeck, F, Univ Estadual Campinas, Inst Quim, BR-13083970 Campinas, SP, Brazil.

Coluci, V.R., Cotta, M.A., Mendonca, C.A.C., Landers, K.M.I. and de Carvalho, M.M.G. (1998).

Surface morphologies in GaAs homoepitaxy: Mound formation and evolution.

Physical Review B 58(4): 1947-1953.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, Dept Fis Aplicada, Lab Pesquisa Dispositivos, BR-13081970 Campinas, SP, Brazil.

Coluci, VR, Univ Estadual Campinas, Inst Fis Gleb Wataghin, Dept Fis Aplicada, Lab Pesquisa Dispositivos, Caixa Postal 6165, BR-13081970 Campinas, SP, Brazil.

Costa, N. and Maquis, P.M. (1998).

Biomimetic processing of calcium phosphate coating.

Medical Engineering & Physics 20(8): 602-606.

State Univ Campinas, Dept Mat Engn, Fac Mech Engn, Campinas, SP, Brazil. Univ Birmingham, Sch Dent, Birmingham B15 2TT, W Midlands, England.

Costa, N, State Univ Campinas, Dept Mat Engn, Fac Mech Engn, Campinas, SP, Brazil.

da Silva, F.C.S., Ferrari, E.F. and Knobel, M. (1998).

Controlling magnetic and transport properties of granular alloys through Joule heating.

Journal of Applied Physics 84(9): 5366-5368.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Sao Paulo, Brazil.

da Silva, FCS, Univ Estadual Campinas, Inst Fis Gleb Wataghin, CP 6165, BR-13083970 Sao Paulo, Brazil.

de Paula, A.M., Barbosa, L.C., Cruz, C.H.B., Alves, O.L., Sanjurjo, J.A. and Cesar, C.L. (1998).

Quantum confinement effects on the optical phonons of CdTe quantum dots.

Superlattices and Microstructures 23(5): 1103-1106.

Univ Estadual Campinas, Inst Fis, BR-13083970 Campinas, SP, Brazil. Univ Estadual Campinas, Inst Quim, BR-13083970 Campinas, SP, Brazil.

de Paula, AM, Univ Estadual Campinas, Inst Fis, Caixa Postal 6165, BR-13083970 Campinas, SP, Brazil.

Diniz, J.A., Swart, J.W., Jung, J., Hong, J. and Pearton, S.J. (1998).

Inductively Coupled Plasma Etching of In-Based Compound Semiconductors in CH₄ /H₂ /Ar.

Solid-State Electronics 42: 1947-1951.

FEEC

dos Santos, M.C. and Alvarez, F. (1998).

Nitrogen substitution of carbon in graphite: Structure evolution toward molecular forms.

Physical Review B 58(20): 13918-13924.

UNICAMP, Inst Fis, BR-13083970 Campinas, SP, Brazil.

dos Santos, MC, UNICAMP, Inst Fis, BR-13083970 Campinas, SP, Brazil.

dos Santos, M.C. and Teschke, O. (1998).

Aligned pipe arrays formation by silicon anodic etching.

Journal of Vacuum Science & Technology B 16(4): 2105-2109.

UNICAMP, Inst Fis, Nanostruct Lab, BR-13081970 Campinas, SP, Brazil.

dos Santos, MC, UNICAMP, Inst Fis, Nanostruct Lab, Caixa Postal 6165,
BR-13081970 Campinas, SP, Brazil.
oteschke@ifi.unicamp.br

Duque, C.A., Porras-Montenegro, N., Latge, A. and Oliveira, L.E. (1998).

Theoretical modeling of the photoluminescence spectra associated with free-carrier to acceptor-impurity recombination in quantum-size GaAs wire crystals.

Journal of Applied Physics 83(11): 6199-6201.

Univ Antioquia, Dept Fis, AA-1226 Medellin, Colombia. Univ Valle, Dept Fis, AA-25360 Cali, Colombia. Univ Fed Fluminense, Inst Fis, BR-24210340 Rio De Janeiro, Brazil. Univ Estadual Campinas, Inst Fis, BR-13083970 Sao Paulo, Brazil.

Duque, CA, Univ Antioquia, Dept Fis, AA-1226 Medellin, Colombia.

Fagotto, E.A.M., Rossi, S.M. and Moschim, E. (1998).

Geometry effects on the electronic properties of multi-open dots structures.

Ieee Transactions on Electron Devices 45(11): 2361-2364.

State Univ Campinas, Sch Elect & Comp Engr, BR-1308197 Campinas, Brazil.

Fagotto, EAM, Univ Estadual Paulista, Dept Elect Engr, BR-13093110 Sao Paulo, Brazil.

Faria, I.C., Kleinke, M., Gorenstein, A., Fantini, M.C.A. and Tabacniks, M.H. (1998).

Toward efficient electrochromic NiOx films: A study of microstructure, morphology, and stoichiometry of radio frequency sputtered films.

Journal of the Electrochemical Society 145(1): 235-240.

UNICAMP, IFGW, DFA, BR-13084970 Campinas, SP, Brazil. USP, Inst Fis, BR-05389970 Sao Paulo, Brazil.

Faria, IC, UNICAMP, IFGW, DFA, CP 6165, BR-13084970 Campinas, SP, Brazil.

Hassan, S.A., Vasconcellos, A.R. and Luzzi, R. (1998).

Production and optical properties of steady-state photoinjected plasmas in quantum wires.

Solid State Communications 106(5): 253-257.

Univ Estadual Campinas, Inst Fis Gleb Wataghin, UNICAMP, BR-13083970 Campinas, SP, Brazil.

Vasconcellos, AR, Univ Estadual Campinas, Inst Fis Gleb Wataghin, UNICAMP, BR-13083970 Campinas, SP, Brazil.

Knobel, M. (1998).

Giant magnetoimpedance in soft magnetic amorphous and nanocrystalline materials.

Journal De Physique Iv 8(P2): 213-220.

Univ Estadual Campinas, UNICAMP, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

Knobel, M, Univ Estadual Campinas, UNICAMP, Inst Fis Gleb Wataghin, CP 6165, BR-13083970 Campinas, SP, Brazil.

Li, B.B., Baranauskas, V., Peterlevitz, A., Chang, D.C., Doi, I., Trava-Airoldi, V.J. and Corat, E.J. (1998).

Annealing-induced enhancement in the activation energy of heavily boron-doped polycrystalline diamond.

Diamond and Related Materials 7(9): 1259-1262.

Univ Estadual Campinas, Fac Engn Eletr & Comp, BR-13083970 Campinas, SP, Brazil. Inst Nacl Pesquisas Espaciais, Lab Associado Sensores & Mat, BR-12201970 Sao Jose Dos Campos, SP, Brazil.

Baranauskas, V, Univ Estadual Campinas, Fac Engn Eletr & Comp, Av Albert Einstein N 400, BR-13083970 Campinas, SP, Brazil.

Vitor@dsif.fee.unicamp.br

Mendonca, C.A.C., Cotta, M.A., Meneses, E.A. and Carvalho, M.M.G. (1998).

Self-assembled islands on strained systems: Control of formation, evolution, and spatial distribution.

Physical Review B 57(19): 12501-12505.

Univ Estadual Campinas, IFGW, DFA LPD, BR-13081970 Campinas, SP, Brazil.
Mendonca, CAC, Univ Estadual Campinas, IFGW, DFA LPD, Caixa Postal 6165, BR-13081970 Campinas, SP, Brazil.

Mendonca, C.A.C., Laureto, E., Brasil, M., Cotta, M.A., Carvalho, M.M.G. and Meneses, E.A. (1998).

On the optical properties of InAs/InP systems: The role of two-dimensional structures and three-dimensional islands.

Applied Physics Letters 72(9): 1015-1017.

UNICAMP, LPD, DFA, IFGW, BR-13081970 Campinas, SP, Brazil.
Mendonca, CAC, UNICAMP, LPD, DFA, IFGW, CP 6165, BR-13081970 Campinas, SP, Brazil.

Miranda, M.G.M., Rodriguez, G.J.B., Antunes, A.B., Baibich, M.N., Ferrari, E.F., da Silva, F.C.S. and Knobel, M. (1998).

Transport and structure of Co₁₀Cu₉₀ heterogeneous ribbons during annealing.

Journal of Magnetism and Magnetic Materials 185(3): 331-338.

Univ Fed Rio Grande Sul, Inst Fis, BR-91501970 Porto Alegre, RS, Brazil.
Univ Estadual Campinas, UNICAMP, Inst Fis Gleb Wataghin, BR-13081970 Campinas, SP, Brazil.
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Morelhao, S.L., Avanci, L.H., Hayashi, M.A., Cardoso, L.P. and Collins, S.P. (1998).

Observation of Coherent Hybrid Reflection with Synchrotron Radiation.

Applied Physics Letters 73: 2194-2196.

IFGW

Narvaez, G.A., Aguiar, M.C.D. and Brum, J.A. (1998).

Carrier capture time in T-shaped semiconductor quantum wires.

Physica E-Low-Dimensional Systems & Nanostructures 2(1-4): 983-986.

UNICAMP, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.
Narvaez, GA, UNICAMP, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.

Novello, W.P., Arruda, A.C.F., Santana, M.H., Moraes, A.M. and Pinho, S.C. (1998).

Characterization of coatings for open-heart surgery tubing with heparin and lipid.

Journal of Materials Science-Materials in Medicine 9(12): 793-796.

Univ Campinas, Biomech Engn Lab, BR-13083970 Campinas, SP, Brazil.
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Rasnik, I., Rego, L.G.C., Marquezini, M.V., Triques, A.L.C., Brasil, M., Brum, J.A. and Cotta, M.A. (1998).

Interface roughness localization in quantum wells and quantum wires.

Physical Review B 58(15): 9876-9880.

UNICAMP, DFESCM, Inst Fis, BR-13083970 Campinas, SP, Brazil.
Rasnik, I, UNICAMP, DFESCM, Inst Fis, BR-13083970 Campinas, SP, Brazil.

Rego, L.G.C., Brum, J.A. and Hawrylak, P. (1998).

Multi-charged acceptor centers in p-doped Si/Si_{1-x}Ge_x/Si quantum wells in the presence of a magnetic field.

Physica E 2(1-4): 785-788.

Natl Res Council Canada, Inst Microstruct Sci, Ottawa, ON K1A 0R6, Canada. Univ Estadual Campinas, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.
Rego, LGC, Natl Res Council Canada, Inst Microstruct Sci, Ottawa, ON K1A 0R6, Canada.

Santos, A., Ardisson, J.D., Tambourgi, E.B. and Macedo, W.A.A. (1998).

Synthesis of granular Fe-Al₂O₃ by the sol-gel method.

Journal of Magnetism and Magnetic Materials 177: 247-248.

Ctr Desenvolvimento Tecnol Nucl, Lab Fis Aplicada, BR-30123970 Belo Horizonte, MG, Brazil. Univ Estadual Campinas, Fac Engn Quim, Campinas, Brazil.

Macedo, WAA, Ctr Desenvolvimento Tecnol Nucl, Lab Fis Aplicada, CP 941, BR-30123970 Belo Horizonte, MG, Brazil.

Soares, L.S.M., Cotta, M.A., Mendonca, C.A.C., Ito-Landers, K.M. and de Carvalho, M.M.G. (1998).

Equilibrium shape and nucleation on InP(0 0 1) surfaces: effect of surface steps.

Journal of Crystal Growth 191(1-2): 44-50.

UNICAMP, IFGW, DFA, LPD, BR-13081970 Campinas, SP, Brazil.

Cotta, MA, UNICAMP, IFGW, DFA, LPD, CP 6165, Cidade Univ Zeferino Vaz, BR-13081970 Campinas, SP, Brazil.

monica@ifi.unicamp.br

Swart, J.W. (1998).

Education on microfabrication in Latin America and the microelectronics workshop at UNICAMP.

Ieee Transactions on Education 41(4): 253-256.

UNICAMP, DSIF, FEEC, BR-13083970 Campinas, SP, Brazil. UNICAMP, CCS, BR-13083970 Campinas, SP, Brazil.

Swart, JW, UNICAMP, DSIF, FEEC, BR-13083970 Campinas, SP, Brazil.

Terra, M.O. and Aguiar, M.A.M. (1998).

Effects of finite temperature in ballistic quantum dots.

Physica A 257(1-4): 542-546.

Univ Estadual Campinas, Inst Fis, Dept Fis Estado Solido & Ciencia Mat, BR-13083970 Campinas, SP, Brazil.

Terra, MO, Univ Estadual Campinas, Inst Fis, Dept Fis Estado Solido & Ciencia Mat, CP 6165, BR-13083970 Campinas, SP, Brazil.

Teschke, O. and Souza, E.F. (1998).

Atomic force microscopy improved resolution employing large scanning speeds: Effects of the double relaxation time.

Review of Scientific Instruments 69(10): 3588-3592.

Univ Estadual Campinas, Inst Fis, Nanostruct Lab, BR-13081970
Campinas, SP, Brazil.

Teschke, O, Univ Estadual Campinas, Inst Fis, Nanostruct Lab, BR-13081970 Campinas, SP, Brazil.

Thoen, E.R., Steinmeyer, G., Langlois, P., Ippen, E.P., Tudury, G.E., Cruz, C.H.B., Barbosa, L.C. and Cesar, C.L. (1998).

Coherent acoustic phonons in PbTe quantum dots.

Applied Physics Letters 73(15): 2149-2151.

MIT, Dept Elect Engr & Comp Sci, Elect Res Lab, Cambridge, MA 02139 USA. MIT, Dept Phys, Cambridge, MA 02139 USA. Univ Estadual Campinas, Inst Fis, BR-13083970 Campinas, SP, Brazil.

Thoen, ER, MIT, Dept Elect Engr & Comp Sci, Elect Res Lab, Cambridge, MA 02139 USA.

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Turtelli, R.S., Grossinger, R., de Moraes, E., Duong, V.H., Wiesinger, G., Dahlgren, M. and Ferrara, E. (1998).

Magnetic properties of Si rich Fe_{100-x}Si_x rapidly quenched alloys.

Journal of Magnetism and Magnetic Materials 177: 1389-1390.

Vienna Tech Univ, Inst Expt Phys, A-1040 Vienna, Austria. UNICAMP, Inst Fis, Campinas, Brazil. IEN, I-10125 Turin, Italy.

Turtelli, RS, Vienna Tech Univ, Inst Expt Phys, Wiedner Hauptstr 8-10, A-1040 Vienna, Austria.

Vasilevskii, M.I., Akinkina, E.I., de Paula, A.M. and Anda, E.V. (1998).

Effect of size dispersion on the optical absorption of an ensemble of semiconductor quantum dots.

Semiconductors 32(11): 1229-1233.

NI Lobachevskii Nizhnii Novgorod State Univ, Nizhnii Novgorod 603600, Russia. UNICAMP, BR-13083970 Campinas, SP, Brazil.
Vasilevskii, MI, NI Lobachevskii Nizhnii Novgorod State Univ, Nizhnii Novgorod 603600, Russia.

Viegas, A.D.C., Geshev, J., Schmidt, J.E. and Ferrari, E.F. (1998).
Giant magnetoresistance and remanence in granular CoCu codeposited films.
Journal of Applied Physics 83(11): 7007-7009.

Univ Fed Rio Grande Sul, Inst Fis, BR-91501970 Porto Alegre, RS, Brazil.
UNICAMP, Inst Fis Gleb Wataghin, BR-13083970 Campinas, SP, Brazil.
Viegas, ADC, Univ Fed Rio Grande Sul, Inst Fis, CP 15051, BR-91501970 Porto Alegre, RS, Brazil.
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1997

Alves, M.C.M., Alves, O.L., Barbosa, L.C., Craievich, A.F., Ramos, A. and Traverse, A. (1997).
XAFS study of CdTe_{1-x}S_x semiconductor glass composites.
Journal De Physique Iv 7(C2): 1251-1252.

UNIV ESTADUAL CAMPINAS,IQ,LQES,BR-13081970 CAMPINAS,SP,BRAZIL.
UNIV ESTADUAL CAMPINAS,LMV,IF,BR-13081970 CAMPINAS,SP,BRAZIL.
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ELECTROMAGNET,F-91405SAY,FRANCE.
Alves, MCM, LNLS,CAIXA POSTAL 6192,BR-13081970
CAMPINAS,SP,BRAZIL.

Barbosa, L.C., Reynoso, V.C.S., dePaula, A.M., deOliveira, C.R.M., Alves, O.L., Craievich, A.F., Marotti, R.E., Cruz, C.H.B. and Cesar, C.L. (1997).
CdTe quantum dots by melt heat treatment in borosilicate glasses.
Journal of Non-Crystalline Solids 219: 205-211.

UNIV ESTADUAL CAMPINAS,INST QUIM,BR-13083970
CAMPINAS,SP,BRAZIL. LAB NACL LUZ SINCROTRON,BR-13081970
CAMPINAS,SP,BRAZIL.

Barbosa, LC, UNIV ESTADUAL CAMPINAS, INST FIS, CAIXA POSTAL 6165, BR-13083970 CAMPINAS, SP, BRAZIL.

Corat, E.J., TravaAiroldi, V.J., Leite, N.F., Nono, M.C.A. and Baranauskas, V. (1997).

Diamond growth with CF₄ addition in hot-filament chemical vapour deposition.

Journal of Materials Science 32(4): 941-947.

UNIV ESTADUAL CAMPINAS, FAC ELECT ENGN, BR-13083970 CAMPINAS, SP, BRAZIL.

Corat, EJ, LAS, INPE, INST NACL PESQUISAS ESPACIAIS, CP 515, BR-12201970 S JOSE CAMPOS, SP, BRAZIL.

Cotta, M.A., Mendonca, C.A.C., Meneses, E.A. and deCarvalho, M.M.G. (1997).

On the onset of InAs islanding on InP: influence of surface steps.

Surface Science 388(1-3): 84-91.

Cotta, MA, UNICAMP, IFGW, CP 6165, BR-13081970 CAMPINAS, SP, BRAZIL.

Craievich, A.F., Alves, O.L. and Barbosa, L.C. (1997).

Formation and growth of semiconductor PbTe nanocrystals in a borosilicate glass matrix.

Journal of Applied Crystallography 30(2): 623-627.

CNPq, Natl Synchrotron Light Lab, Campinas, SP, Brazil. Univ Sao Paulo, Inst Phys, Sao Paulo, Brazil. UNICAMP, Inst Chem, Solid State Chem Lab, Campinas, SP, Brazil. UNICAMP, Inst Phys, Campinas, SP, Brazil.

Craievich, AF, CNPq, Natl Synchrotron Light Lab, Campinas, SP, Brazil. aldo@lnls.br

Cruz, C.H.B., Cesar, C.L., Barbosa, L.C., dePaula, A.M. and Tsuda, S. (1997).

Ultrafast processes in semiconductor doped glasses.

Applied Surface Science 110: 30-35.

Cruz, CHB, UNIV ESTADUAL CAMPINAS, UNICAMP, INST FIS GLEB WATAGHIN, BR-13083970 CAMPINAS, SP, BRAZIL.

Dahlgren, M., Grossinger, R., deMoraes, E., Gama, S., Mendoza, G., Liu, J.F. and Davies, H.A. (1997).

Enhancement of the Curie temperature for exchange coupled Nd-Fe-B and Pr-Fe-B magnets.

Ieee Transactions on Magnetism 33(5): 3895-3897.

UNIV ESTADUAL CAMPINAS, INST FIS GLEB WATAGHIN, BR-13083970 CAMPINAS, SP, BRAZIL. UNIV SHEFFIELD, DEPT MAT ENGN, SHEFFIELD S1 3JD, S YORKSHIRE, ENGLAND.

Dahlgren, M, VIENNA TECH UNIV, INST EXPT PHYS, WIEDNER HAUPTSTR 8-10, A-1040 VIENNA, AUSTRIA.

dos Santos, D.R., Torriani, I.L., Ramos, A.Y. and Knobel, M. (1997).

Small-angle X-ray scattering study of nanocrystalline and amorphous states of the Fe_{73.5}CuNb₃Si_{13.5}B₉ alloy.

Journal of Applied Crystallography 30(2): 633-636.

UNICAMP, Inst Fis Gleb Wataghin, Campinas, SP, Brazil. Univ Paris 06, CNRS, LMCP, Paris, France.

dos Santos, DR, UNICAMP, Inst Fis Gleb Wataghin, Campinas, SP, Brazil.

Ferrari, E.F., daSilva, F.C.S. and Knobel, M. (1997).

Influence of the distribution of magnetic moments on the magnetization and magnetoresistance in granular alloys.

Physical Review B 56(10): 6086-6093.

Ferrari, EF, UNIV ESTADUAL CAMPINAS, INST FIS GLEB WATAGHIN, CP 6165, BR-13083970 CAMPINAS, SP, BRAZIL.

Freire, P.T.C., Silva, M.A.A., Reynoso, V.C.S., Vaz, A.R. and Lemos, V. (1997).

Pressure Raman scattering of CdTe quantum dots.

Physical Review B 55(11): 6743-6746.

UNIV ESTADUAL CAMPINAS, INST FIS GLEB WATAGHIN, BR-13083970
CAMPINAS, SP, BRAZIL.
Freire, PTC, UNIV FED CEARA, DEPT FIS, BR-60455760
FORTALEZA, CEARA, BRAZIL.

Ghiner, A.V. and Surdutovich, G.I. (1997).

Discreteness and local fields in weakly rarefied media.

Physical Review E 56(5): 6123-6141.

RUSSIAN ACAD SCI, INST SEMICONDUCT PHYS, NOVOSIBIRSK
630090, RUSSIA. RUSSIAN ACAD SCI, INST AUTOMAT &
ELECTROMETRY, NOVOSIBIRSK 630090, RUSSIA. UNICAMP, FEEC, DSIF, BR-
13083970 CAMPINAS, SP, BRAZIL. UNIV FED CEARA, DEPT FIS, BR-
60450970 FORTALEZA, CEARA, BRAZIL. UNIV FED MARANHÃO, DEPT
FIS, BR-65085580 SÃO LUIS, MARANHÃO, BRAZIL.

**Hayahi, M.A., Morelhaio, S.L., Avanci, L.H., Cardoso, L.P., Sasaki,
J.M., Kretly, L.C. and Chang, S.L. (1997).**

Sensitivity of Bragg-Surface Diffraction to Analyze Ion-Implanted
Semiconductors.

Applied Physics Letters 71: 2614-2616.

IFGW

**Hummel, D.A., Torriani, I.L., Craievich, A.F., Fox, N.D., Ramos, A.Y.
and Lyon, O. (1997).**

Influence of Cd content and Se doping on the formation of CdSe
nanocrystals in silica xerogels: A SAXS study.

Journal of Sol-Gel Science and Technology 8(1-3): 285-291.

CNPQ, LAB NAEL LUZ SINCROTRON, CAMPINAS, SP, BRAZIL. UNIV SÃO
PAULO, INST FIS, SÃO PAULO, BRAZIL. UNIV CADIZ, FAC CIENCIAS
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REAL, CADIZ, SPAIN. UNIV PARIS 06, LMCP, CNRS, PARIS, FRANCE. UNIV
PARIS 11, COLLIS ATOM & MOL LAB, CNRS, URA 281, LURE, F-
91405 SAY, FRANCE.
Hummel, DA, UNICAMP, INST FIS GLEB WATAGHIN, CAMPINAS, SP, BRAZIL.

Knobel, M., Chiriac, H., Sinnecker, J.P., Marinescu, S., Ovari, T.A. and Inoue, A. (1997).

Comparative study of the giant magneto-impedance effect in Fe-based nanocrystalline ribbons.

Sensors and Actuators a-Physical 59(1-3): 256-260.

INST TECH PHYS,IASI 6600 3,ROMANIA. TOHOKU UNIV,SENDAI,MIYAGI 980,JAPAN. UNICAMP,IFGW,CAMPINAS,SP,BRAZIL.

Knobel, M., Schoenmaker, J., Sinnecker, J.P., Turtelli, R.S., Grossinger, R., Hofstetter, W. and Sassik, H. (1997).

Giant magneto-impedance in nanocrystalline Fe_{73.5}Cu₁Nb₃Si_{13.5}B₉ and Fe₈₆Zr₇B₆Cu₁ ribbons.

Materials Science and Engineering a-Structural Materials Properties Microstructure and Processing 226: 546-549.

VIENNA TECH UNIV,INST EXPT PHYS,A-1040 VIENNA,AUSTRIA. VIENNA TECH UNIV,INST EXPT PHYS,TU WIEN,A-1040 VIENNA,AUSTRIA. Knobel, M, UNICAMP,UNIV ESTADUAL CAMPINAS,INST FIS GLEB WATAGHIN,CP 6165,BR-13083970 CAMPINAS,SP,BRAZIL.

Loh, W. (1997).

Taylor dispersion technique for investigation of diffusion in liquids and its applications.

Quimica Nova 20(5): 541-545.

Loh, W, UNIV ESTADUAL CAMPINAS,INST QUIM,BR-13081970 CAMPINAS,SP,BRAZIL.

Moshkalyov, S.A., Diniz, J.A., Swart, J.W., Tatsch, P.J. and Machida, M. (1997).

Deposition of Silicon Nitride by Low-Pressure ECR-CVD in N₂ /Ar/SiH₄.

Journal of Vacuum Science and Technology B 15: 2682-2687.

Faculdade de Engenharia Elétrica e de Computação

Recami, E., Ammirayer, P., Hernández, H.E., Kretly, L.C. and Jr., W.A.R. (1997).

Elementary Particles as Micro-Universes: A Purely Geometric Approach to Strong Gravity.

Apeiron 4(1): 7-15.

FEEC

Ribeiro, E., Cerdeira, F. and Teschke, O. (1997).

Tridimension structural characterization of porous silicon by transmission electron microscopy and Raman scattering.

Solid State Communications 101(5): 327-331.

UNIV ESTADUAL CAMPINAS, INST FIS GLEB WATAGHIN, BR-13081970
CAMPINAS, SP, BRAZIL.

Sforca, M.L., Nunes, S.P. and Peinemann, K.V. (1997).

Composite nanofiltration membranes prepared by in situ polycondensation of amines in a poly(ethylene oxide-b-amide) layer.

Journal of Membrane Science 135(2): 179-186.

GKSS FORSCHUNGSZENTRUM GEESTHACHT GMBH, D-21502
GEESTHACHT, GERMANY. UNIV CAMPINAS, INST CHEM, BR-13083970
CAMPINAS, SP, BRAZIL.

Teschke, O., Soares, D.M. and Nunes, L.A.O. (1997).

The formation of nanostructures on silicon surfaces in the presence of hydrogen.

Applied Physics Letters 70(21): 2840-2842.

USP, IFSC, GES, SAO CARLOS, SP, BRAZIL.
Teschke, O, UNIV ESTADUAL CAMPINAS, IFGW, BR-13081970
CAMPINAS, SP, BRAZIL.

Vazquez, M., Knobel, M., Sanchez, M.L., Valenzuela, R. and Zhukov, A.P. (1997).

Giant magnetoimpedance effect in soft magnetic wires for sensor applications.

Sensors and Actuators a-Physical 59(1-3): 20-29.

CSIC, INST CIENCIA MAT, LAS ROZAS, MADRID, SPAIN.
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 DISTRICT, RUSSIA.
 Vazquez, M, UCM, INST MAGNETISMO APLICADO, RENFE, POB 155, LAS
 ROZAS, MADRID, SPAIN.

Viegas, A.D.C., Geshev, J., Dorneles, L.S., Schmidt, J.E. and Knobel, M. (1997).

Correlation between magnetic interactions and giant magnetoresistance in melt-spun Co₁₀Cu₉₀ granular alloys.

Journal of Applied Physics 82(6): 3047-3053.

UNIV ESTADUAL CAMPINAS, INST FIS GLEB WATAGHIN, BR-13038970
 CAMPINAS, SP, BRAZIL.

Viegas, ADC, UNIV FED RIO GRANDE SUL, INST FIS, CP 15051, BR-
 91501970 PORTO ALEGRE, RS, BRAZIL.

1996

Allia, P., Ghigo, F., Knobel, M., Tiberto, P. and Vinai, F. (1996).

Grain size distribution in granular Cu_{100-x}Cox through anhysteretic magnetisation curve analysis.

Journal of Magnetism and Magnetic Materials 158: 319-320.

INFM, TORINO POLITECN UNIT, DIPARTIMENTO FIS, I-10129 TURIN, ITALY.

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 FIS, BR-13081 CAMPINAS, SP, BRAZIL.

Allia, P, POLITECN TURIN, I-10129 TURIN, ITALY.

Dahlgren, M., Grossinger, R., Hernando, A., Holzer, D., Knobel, M. and Tiberto, P. (1996).

Magnetic properties of Fe₈₆Zr₇Cu₁B₆ at elevated temperatures.

Journal of Magnetism and Magnetic Materials 160: 247-248.

RENFE, INST MAGNETISMO, MADRID, SPAIN. UNIV ESTADUAL
CAMPINAS, IFGW, BR-13081970 CAMPINAS, SP, BRAZIL. POLITECN
TURIN, TURIN, ITALY.

Dahlgren, M, TECH UNIV WIEN, INST PHYS EXPT, WIEDNER HAUPTSTR 8-
10, A-1040 VIENNA, AUSTRIA.

**dePaula, A.M., Barbosa, L.C., Cruz, C.H.B., Alves, O.L., Sanjurjo, J.A.
and Cesar, C.L. (1996).**

Size effects on the phonon spectra of quantum dots in CdTe-doped
glasses.

Applied Physics Letters 69(3): 357-359.

dePaula, AM, UNIV ESTADUAL CAMPINAS, INST FIS, CAIXA POSTAL
6165, BR-13083970 CAMPINAS, SP, BRAZIL.

Diniz, J.A., Tatsch, P.J. and Pudenzi, M.A.A. (1996).

Oxynitride Films Formed by Low Energy NO⁺ Implantation into Silicon.

Applied Physics Letters 69: 2214.

IFGW

Duarte, A.S., Fragnito, H.L. and Palange, E. (1996).

Light induced permanent modifications of the nonlinear optical properties
of semiconductor doped glasses.

Solid State Communications 100(7): 463-466.

UNIV ROMA LA SAPIENZA, DIPARTIMENTO FIS, I-00185 ROME, ITALY.

Duarte, AS, UNIV ESTADUAL CAMPINAS, INST FIS GLEB WATAGHIN, BR-
13083970 CAMPINAS, SP, BRAZIL.

**EstevezRams, E., Fidler, J., Dahlgren, M., Grossinger, R., Knobel,
M., Tiberto, P., Allia, P. and Vinai, F. (1996).**

A structural investigation of amorphous and nanocrystalline
Fe₈₆Zr₇Cu₁B₆.

Journal of Physics D-Applied Physics 29(3): 848-854.

VIENNA TECH UNIV, INST EXPTL PHYS, A-1040 VIENNA, AUSTRIA. UNIV
ESTADUAL CAMPINAS, IFGW, BR-13083970 CAMPINAS, SP, BRAZIL.

POLITECN TURIN,DIPARTIMENTO FIS,I-10129 TURIN,ITALY. IST
ELETTRROTECNICO NAZL GALILEO FERRARIS,I-10125 TURIN,ITALY.
EstevezRams, E, VIENNA TECH UNIV,INST APPL & TECH PHYS,HAUPSTR 8-
10,A-1040 VIENNA,AUSTRIA.

Hawrylak, P., Wojs, A. and Brum, J.A. (1996).

Magneto-excitons in droplets of a chiral Luttinger liquid formed in quantum dots in a magnetic field.

Solid State Communications 98(9): 847-851.

UNICAMP,IFGW,BR-081970 CAMPINAS,SP,BRAZIL.

Hawrylak, P, NATL RES COUNCIL CANADA,INST MICROSTRUCT
SCI,OTTAWA,ON K1A 0R6,CANADA.

Lima, E.C.D., Beppu, M.M. and Galembeck, F. (1996).

Nanosized particles of aluminum polyphosphate.

Langmuir 12(7): 1701-1703.

UNIV ESTADUAL CAMPINAS,INST CHEM,BR-13083970

CAMPINAS,SP,BRAZIL. UNIV FED GOIAS,INST CHEM &

GEOSCI,GOIANIA,GO,BRAZIL. UNIV ESTADUAL CAMPINAS,SCH CHEM
ENGN,CAMPINAS,SP,BRAZIL.

**Liu, Y., Reynoso, C.S., Barbosa, L.C., Cruz, C.H.B., Cesar, C.L.,
Fragnito, H.L. and Alves, O.L. (1996).**

Improvement of size dispersion in CdTe quantum dots in glass by using double annealing process.

Journal of Materials Science Letters 15(2): 142-144.

UNIV CAMPINAS,INST QUIM,BR-13081970 CAMPINAS,SP,BRAZIL.

Liu, Y, UNIV CAMPINAS,INST FIS,POB 6165,BR-13081970
CAMPINAS,SP,BRAZIL.

**Liu, Y., Reynoso, V.C.S., Rojas, R.F.C., Neto, J.A.M., Cesar, C.L.,
Alves, O.L. and Barbosa, L.C. (1996).**

Optical properties of CdTe quantum dots in praseodymium-doped borosilicate glass.

Journal of Materials Science Letters 15(21): 1875-1878.

UNICAMP, INST QUIM, BR-13081970 CAMPINAS, SP, BRAZIL.
 Liu, Y, UNICAMP, INST FIS, POB 6165, BR-13081970 CAMPINAS, SP, BRAZIL.

Liu, Y.D., Reynoso, V.C.S., Rojas, R.F.C., Cruz, C.H.B., Cesar, C.L., Fragnito, H.L., Alves, O.L. and Barbosa, L.C. (1996).
 Laser induced darkening in CdTe quantum dots without traps.
Journal of Materials Science Letters 15(10): 892-894.

UNICAMP, INST QUIM, BR-13081970 CAMPINAS, SP, BRAZIL.
 Liu, YD, UNICAMP, INST FIS, POB 6165, BR-13081970
 CAMPINAS, SP, BRAZIL.

Liu, Y.D., Reynoso, V.C.S., Royas, R.F.C., Cruz, C.H.B., Cesar, C.L., Fragnito, H.L., Barbosa, L.C. and Alves, O.L. (1996).
 Shell-core CdTeS quantum dots in glass.
Journal of Materials Science Letters 15(11): 980-983.

UNICAMP, INST QUIM, BR-13081970 CAMPINAS, SP, BRAZIL.
 Liu, YD, UNICAMP, INST FIS, POB 6165, BR-13081970
 CAMPINAS, SP, BRAZIL.

Lopes, M.C.V., dosSantos, S.G., Hasenack, C.M. and Baranauskas, V. (1996).
 Si-SiO₂ electronic interface roughness as a consequence of Si-SiO₂ topographic interface roughness.
Journal of the Electrochemical Society 143(3): 1021-1025.

UNIV CAMPINAS, FEE, DSIF, BR-13081 CAMPINAS, SP, BRAZIL.
 Lopes, MCV, UNIV SAO PAULO, PEE, LSI, BR-05508 SAO PAULO, BRAZIL.

Marquezini, M.V., Brasil, M., Cotta, M.A., Brum, J.A. and Bernussi, A.A. (1996).
 Magnetoexciton anisotropy in quantum wells versus quantum wires.
Physical Review B 53(24): 16156-16159.

TELEBRAS CPQD, CPQD, BR-13088061 CAMPINAS, SP, BRAZIL.

Marquezini, MV, UNICAMP,DFESCM,INST FIS,BR-13081970
CAMPINAS,SP,BRAZIL.

Nunes, S.P., Schultz, J. and Peinemann, K.V. (1996).

Silicone membranes with silica nanoparticles.

Journal of Materials Science Letters 15(13): 1139-1141.

GKSS FORSCHUNGSZENTRUM GEESTHACHT GMBH,D-21502
GEESTHACHT,GERMANY.

Nunes, SP, UNIV CAMPINAS,INST CHEM,BR-13083970
CAMPINAS,SP,BRAZIL.

Pereira, R.D., Parizotto, N.A. and Baranauskas, V. (1996).

Observation of baker's yeast strains used in biotransformation by atomic
force microscopy.

Applied Biochemistry and Biotechnology 59(2): 135-143.

UNIV FED SAO CARLOS,DEPT PHYSIOTHERAPY,BIOL SCI & HLTH CTR,SAO
CARLOS,SP,BRAZIL. UNIV ESTADUAL CAMPINAS,FAC ELECT
ENGN,SEMICOND INSTRUMENTS & PHOTON DEPT,BR-13084970
CAMPINAS,SP,BRAZIL.

Pereira, RD, UNIV ESTADUAL CAMPINAS,INST QUIM,BIOL CHEM LAB,CP
6154,BR-13084970 CAMPINAS,SP,BRAZIL.

**Reynoso, V.C.S., Liu, Y., Royas, R.F.C., Neto, J.A.M., DePaula, A.M.,
Cesar, C., Alves, O.L. and Barbosa, L.C. (1996).**

CdTe quantum dots in Er³⁺-doped borosilicate glass.

Journal of Materials Science Letters 15(21): 1879-1881.

UNICAMP,INST QUIM,BR-13081970 CAMPINAS,SP,BRAZIL.

Reynoso, VCS, UNICAMP,INST FIS,POB 6165,BR-13081970
CAMPINAS,SP,BRAZIL.

**Reynoso, V.C.S., Liu, Y.D., Rojas, R.F.C., Aranha, N., Cesar, C.L.,
Barbosa, L.C. and Alves, O.L. (1996).**

The influence of semiconductor concentration on the size dispersion of
quantum dots in glass.

Journal of Materials Science Letters 15(12): 1037-1040.

INST QUIM,UNICAMP,BR-13081 CAMPINAS,SP,BRAZIL.
 Reynoso, VCS, INST FIS,UNICAMP,POB 6165,BR-13081
 CAMPINAS,SP,BRAZIL.

Riul, A., Mattoso, L.H.C., Telles, G.D., Herrmann, P.S.P., Colnago, L.A., Parizotto, N.A., Baranauskas, V., Faria, R.M. and Oliveira, O.N. (1996).

Characterization of Langmuir-Blodgett films of parent polyaniline.

Thin Solid Films 285: 177-180.

EMBRAPA,CNPDIA,BR-13560970 SAO CARLOS,SP,BRAZIL. USP,DFQ,INST QUIM,SAO CARLOS,SP,BRAZIL. UFSCAR,DEPT FISIOTERAPIA & TO,SAO CARLOS,BRAZIL. UNICAMP,FAC ELECT ENGN,CAMPINAS,SP,BRAZIL.
 Riul, A, USP,INST FIS,CP 369,BR-13560970 SAO CARLOS,SP,BRAZIL.

Sasaki, R.M., Douglas, R.A., Kleinke, M.U. and Teschke, O. (1996).

Structure imaging by atomic force microscopy and transmission electron microscopy of different light emitting species of porous silicon.

Journal of Vacuum Science & Technology B 14(4): 2432-2437.

UNIV ESTADUAL CAMPINAS,DEPT FIS APLICADA,INST FIS GLEB WATAGHIN,BR-13083970 CAMPINAS,SP,BRAZIL.

Sasaki, RM, UNIV ESTADUAL CAMPINAS,INST QUIM,BR-13083970 CAMPINAS,SP,BRAZIL.

Sasaki, R.M., Galembeck, F. and Teschke, O. (1996).

On surface plasmons in porous silicon: Measurements of the electron energy loss in etched silicon nanocrystals.

Applied Physics Letters 69(2): 206-208.

UNICAMP,INST FIS,BR-13081 CAMPINAS,SP,BRAZIL.

Sasaki, RM, UNICAMP,INST QUIM,BR-13081 CAMPINAS,SP,BRAZIL.

Souza, J.P.d., Boudinov, H. and Swart, J.W. (1996).

Rapid Thermal Annealing of Mg⁺ and P⁺ Co-Implanted GaAs.

Nuclear Instruments and Methods in Physics Research B 117: 403-407.

Faculdade de Engenharia Elétrica e de Computação

Teschke, O. (1996).

Visualization of nanostructured porous silicon by a combination of transmission electron microscopy and atomic force microscopy.

Applied Physics Letters 68(15): 2129-2131.

Teschke, O, UNICAMP,IFGW,DFA,BR-13087970 CAMPINAS,SP,BRAZIL.

Tiberto, P., Vinai, F., Allia, P. and Knobel, M. (1996).

Giant magnetoresistance in melt-spun granular Cu_{100-x}Cox alloys with correlated magnetic moments.

Ieee Transactions on Magnetism 32(5): 4704-4706.

INFM,SECT TORINO POLITECN,I-10129 TURIN,ITALY. POLITECN TURIN,DIPARTIMENTO FIS,I-10129 TURIN,ITALY. UNIV ESTADUAL CAMPINAS,INST FIS GLEB WATAGHIN,BR-13083 CAMPINAS,SP,BRAZIL. Tiberto, P, IST ELETTRONICO NAZL GALILEO FERRARIS,CSO M DAZEGLIO 42,I-10125 TURIN,ITALY.

Yu, R.H., Zhang, X.X., Tejada, J., Knobel, M., Tiberto, P., Allia, P. and Vinai, F. (1996).

Giant magnetoresistance in magnetic granular Co₁₅Cu₈₅ alloys annealed by direct-current Joule heating.

Journal of Magnetism and Magnetic Materials 164(1-2): 99-104.

UNIV BARCELONA,FAC FIS,DEPT FIS FUNDAMENTAL,E-08028 BARACALDO,SPAIN. UNIV ESTADUAL CAMPINAS,IFGW,BR-13083970 CAMPINAS,SP,BRAZIL. POLITECN TURIN,DIPARTIMENTO FIS,I-10129 TURIN,ITALY. IST ELETTRONICO NAZL GALILEO FERRARIS,I-10125 TURIN,ITALY.

Yu, R.H., Zhang, X.X., Tejada, J., Knobel, M., Tiberto, P., Allia, P. and Vinai, F. (1996).

Improved giant magnetoresistance in magnetic granular Co₅Cu₉₅ alloys by direct-current joule heating.

Zeitschrift Fur Physik B-Condensed Matter 99(2): 159-161.

UNIV ESTADUAL CAMPINAS,IFGW,BR-13083970 CAMPINAS,SP,BRAZIL.
 POLITECN TURIN,DIPARTIMENTO FIS,I-10129 TURIN,ITALY. IST
 ELETTROTECNICO NAZL GALILEO FERRARIS,I-10125 TURIN,ITALY.
 Yu, RH, UNIV BARCELONA,FAC FIS,DEPT FIS FUNAMENTAL,E-08028
 BARCELONA,SPAIN.

Yu, R.H., Zhang, X.X., Tejada, J., Zhu, J. and Knobel, M. (1996).
 Structure, magnetic properties, and giant magnetoresistance in melt-spun
 metallic copper-cobalt ribbons.
Journal of Applied Physics 79(4): 1979-1990.

UNIV AUTONOMA BARCELONA,DEPT FIS,E-08193 BARCELONA,SPAIN.
 UNIV ESTADUAL CAMPINAS,IFGW,BR-13083970 CAMPINAS,SP,BRAZIL.
 Yu, RH, UNIV BARCELONA,FAC FIS,DEPT FIS FONAMENTAL,E-08028
 BARCELONA,SPAIN.

1995

Allia, P., Knobel, M., Tiberto, P. and Vinai, F. (1995).
 Magnetic properties and giant magnetoresistance of melt-spun granular
 Cu-100-x-Co-x alloys.
Physical Review B 52(21): 15398-15411.

POLITECN TURIN,IST NAZL FIS MAT,I-10129 TURIN,ITALY. UNIV
 ESTADUAL CAMPINAS,INST FIS GLEB WATAGHIN,BR-13083970
 CAMPINAS,SP,BRAZIL. IST ELETTROTECNICO NAZL GALILEO FERRARIS,I-
 10125 TURIN,ITALY.
 Allia, P, POLITECN TURIN,DIPARTIMENTO FIS,CORSO DUCA ABRUZZI
 24,I-10129 TURIN,ITALY.

Andrade, M.A. and Schulz, P.A. (1995).
 Hofstadter Spectra in 2-Dimensional Superlattice Potentials with Arbitrary
 Modulation Strength.
Physical Review B 52(19): 14093-14097.

ANDRADE, MA, UNIV ESTADUAL CAMPINAS,INST FIS GLEB
 WATAGHIN,BR-13083970 CAMPINAS,SP,BRAZIL.

Craievich, A.F., Alves, O.L. and Barbosa, L.C. (1995).

In-Situ Synchrotron-Radiation Small-Angle X-Ray-Scattering Study of the Kinetics of Growth of Cdte Nanocrystals in Borosilicate Glass.

Review of Scientific Instruments 66(2): 1338-1341.

UNIV SAO PAULO, INST FIS, SAO PAULO, BRAZIL. UNICAMP, INST QUIM, QUIM ESTADO SOLIDO LAB, CAMPINAS, BRAZIL. UNICAMP, INST FIS, CAMPINAS, BRAZIL.

CRAIEVICH, AF, CNPQ, LAB NACL LUZ SINCROTRON, BRASILIA, DF, BRAZIL.

Deoliveira, C.R.M., Depaula, A.M., Plentz, F.O., Neto, J.A.M., Barbosa, L.C., Alves, O.L., Menezes, E.A., Rios, J.M.M., Fragnito, H.L., Cruz, C.H.B. and Cesar, C.L. (1995).

Probing of the Quantum-Dot Size Distribution in Cdte-Doped Glasses by Photoluminescence Excitation Spectroscopy.

Applied Physics Letters 66(4): 439-441.

DEOLIVEIRA, CRM, UNIV ESTADUAL CAMPINAS, INST FIS, CAIXA POSTAL 6165, BR-13083970 CAMPINAS, BRAZIL.

Dias, G.H.M. (1995).

Fullerene-60 and Platinafullerene-60 Derivatives.

Quimica Nova 18(6): 592-596.

DIAS, GHM, UNICAMP, INST QUIM, CP 6154, BR-13083970 CAMPINAS, SP, BRAZIL.

Dossantos, S.G., Hasenack, C.M., Lopes, M.C.V. and Baranauskas, V. (1995).

Rapid Thermal-Oxidation of Silicon with Different Thermal Annealing Cycles in Nitrogen - Influence on Surface Microroughness and Electrical Characteristics.

Semiconductor Science and Technology 10(7): 990-996.

STATE UNIV CAMPINAS, FAC ELECT ENGN, DEPT SEMICOND & PHOTON, BR-13083970 CAMPINAS, SP, BRAZIL.

DOSSANTOS, SG, UNIV SAO PAULO, PEE, LSI, AV PROF LUCIANO GUALBERTO, TRAV 3, 158, CID UNIV, BR-05508900 SAO PAULO, BRAZIL.

Hawrylak, P., Schulz, P.A. and Palacios, J.J. (1995).

Electronic-Structure of Artificial Atoms in Intense Ac Terahertz and Strong Magnetic-Fields.

Solid State Communications 93(11): 909-914.

UNIV CAMPINAS, INST FIS, BR-13081970 CAMPINAS, BRAZIL. UNIV AUTONOMA MADRID, DEPT FIS MAT CONDENSADA, E-28049 MADRID, SPAIN.

HAWRYLAK, P, NATL RES COUNCIL CANADA, INST MICROSTRUCT SCI, OTTAWA, ON K1A 0R6, CANADA.

Hernandes, C.S., Swart, J.W., Pudenzi, M.A.A., Kraus, J.T., Shacham-Diamand, Y. and Gianellis, E.P. (1995).

Rapid Thermal Diffusion of Sn from SOG into GaAs.

Journal of the Electrochemical Society 142: 2829-2832.

Faculdade de Engenharia Elétrica e de Computação

Liu, Y., Reynoso, V.C.S., Barbosa, L.C., Rojas, R.F.C., Fragnito, H.L., Cesar, C.L. and Alves, O.L. (1995).

Trap Elimination in Cdte Quantum Dots in Glasses.

Journal of Materials Science Letters 14(9): 635-639.

UNICAMP,IST QUIM,BR-13081 CAMPINAS,BRAZIL.

LIU, Y, UNICAMP,INST FIS,POB 6165,BR-13081 CAMPINAS,SP,BRAZIL.

Reynoso, V.C.S., Depaula, A.M., Cuevas, R.F., Neto, J.A.M., Alves, O.L., Cesar, C.L. and Barbosa, L.C. (1995).

Pbte Quantum-Dot Doped Glasses with Absorption-Edge in the 1.5-Mu-M Wavelength Region.

Electronics Letters 31(12): 1013-1015.

UNIV ESTADUAL CAMPINAS,INST QUIM,BR-13083970 CAMPINAS,SP,BRAZIL.

REYNOSO, VCS, UNIV ESTADUAL CAMPINAS,INST FIS,CAIXA POSTAL 6165,BR-13083970 CAMPINAS,SP,BRAZIL.

Yu, R.H., Zhang, X.X., Knobel, M. and Sardin, G. (1995).

The Magnetic-Behavior in Heterogeneous Fcc Co₁₀Cu₉₀ Melt-Spun Ribbons.

Philosophical Magazine Letters 71(3): 193-198.

UNIV ESTADUAL CAMPINAS, INST FIS GLEB WATAGHIN, BR-13083970
CAMPINAS, SP, BRAZIL.

YU, RH, UNIV BARCELONA, FAC FIS, E-08028 BARCELONA, SPAIN.

Yu, R.H., Zhang, X.X., Tejada, J., Knobel, M., Tiberto, P. and Allia, P. (1995).

Magnetic and Magnetotransport Properties in Co₅Cu₉₅ Melt-Spun Alloys.

Zeitschrift Fur Physik B-Condensed Matter 98(4): 447-451.

UNIV ESTADUAL CAMPINAS, IFGW, BR-13083970 CAMPINAS, SP, BRAZIL.
POLITECN TURIN, DIPARTIMENTO FIS, TURIN, ITALY. POLITECN TURIN, RES
UNIT TORINO, CONSORZIO INFM, TURIN, ITALY.

YU, RH, UNIV BARCELONA, FAC FIS, DEPT FIS FONDAMENTAL, E-08028
BARCELONA, SPAIN.

Yu, R.H., Zhang, X.X., Tejada, J., Knobel, M., Tiberto, P. and Allia, P. (1995).

Magnetic-Properties and Giant Magnetoresistance in Magnetic Granular
Co₉₀Cu₁₀-X Alloys.

Journal of Physics D-Applied Physics 28(9): 1770-1777.

UNIV ESTADUAL CAMPINAS, IFGW, BR-13083970 CAMPINAS, BRAZIL.
POLITECN TURIN, RES UNIT, CONSORZIO INFM, I-10129 TURIN, ITALY.
POLITECN TURIN, DIPARTIMENTO FIS, I-10129 TURIN, ITALY.

YU, RH, UNIV BARCELONA, FAC FIS, DEPT FIS FONDAMENTAL, E-08028
BARCELONA, SPAIN.

Yu, R.H., Zhang, X.X., Tejada, J., Knobel, M., Tiberto, P. and Allia, P. (1995).

Magnetic-Properties and Giant Magnetoresistance in Melt-Spun Co₁₅Cu₈₅
Alloys.

Journal of Physics-Condensed Matter 7(21): 4081-4093.

UNIV ESTADUAL CAMPINAS, INST FIS GLEB WATAGHIN, BR-13083970
CAMPINAS, BRAZIL. POLITECN TURIN, DIPARTIMENTO FIS, TURIN, ITALY.
YU, RH, UNIV BARCELONA, FAC FIS, DEPT FIS FONDAMENTAL, E-08028
BARCELONA, SPAIN.

Yu, R.H., Zhang, X.X., Tejada, J., Knobel, M., Tiberto, P. and Allia, P. (1995).

Magnetic-Properties and Giant Magnetoresistance in Melt-Spun Co-Cu Alloys.

Journal of Applied Physics 78(1): 392-397.

UNIV ESTADUAL CAMPINAS, IFGW, BR-13083970 CAMPINAS, SP, BRAZIL.
POLITECN TURIN, DIPARTIMENTO FIS, I-10129 TURIN, ITALY.
YU, RH, UNIV BARCELONA, FAC FIS, DEPT FIS FONDAMENTAL, E-08028
BARCELONA, SPAIN.

Yu, R.H., Zhang, X.X., Tejada, J., Zhu, J., Knobel, M., Tiberto, P., Allia, P. and Vinai, F. (1995).

Magnetic-Properties and Giant Magnetoresistance of Magnetic Granular Co₁₀Cu₉₀ Alloys Obtained by Direct-Current Joule Heating.

Journal of Applied Physics 78(8): 5062-5066.

AUTONOMOUS UNIV BARCELONA, DEPT FIS, E-08193 BARCELONA, SPAIN.
UNIV ESTADUAL CAMPINAS, UNICAMP, IFGW, BR-13083970
CAMPINAS, BRAZIL. POLITECN TURIN, DIPARTIMENTO FIS, I-10129
TURIN, ITALY. IST ELETTROTECNICO NAZL GALILEO FERRARIS, I-10125
TURIN, ITALY.
YU, RH, UNIV BARCELONA, FAC FIS, DEPT FIS FONDAMENTAL, E-08028
BARCELONA, SPAIN.

1994

Braga, A.K.D., Baranauskas, V. and Peled, A. (1994).

Laser-Induced Photodeposition of Gold Upon P-Silicon Immersed in Chloroauric Acid-Solutions.

Applied Surface Science 80: 375-380.

STATE UNIV CAMPINAS, FAC ELECT ENGN, DEPT SEMICONDUCT &
PHOTON, POB 6101, BR-13083 CAMPINAS, SP, BRAZIL. TEL AVIV UNIV, CTR

TECHNOL EDUC HOLON,DEPT ELECTR,HOLON,ISRAEL. TEL AVIV
UNIV,DEPT ELECTR,IL-58102 HOLON,ISRAEL.

Fagotto, E.A.M., Schulz, P.A. and Brum, J.A. (1994).

Wannier-Stark States in Nanostructures.

Solid-State Electronics 37(4-6): 1171-1174.

FAGOTTO, EAM, UNICAMP,DFESCM,IFGW,CX 6165,BR-13081
CAMPINAS,SP,BRAZIL.

Grivickas, V., Baranauskas, V., Rodrigues, C.R., Basmaji, P. and Misoguti, L. (1994).

Atomic-Force Microscopy Studies on Various Types of Photoluminescent Porous Silicon.

International Journal of Optoelectronics 9(4): 303-309.

STATE UNIV CAMPINAS,FAC ELECT ENGN,DEPT SEMICON
PHOTON,CAMPINAS,BRAZIL. UNIV SAO PAULO,INST PHYS & CHEM SAO
CARLOS,BR-05508 SAO PAULO,BRAZIL.
GRIVICKAS, V, VILNIUS STATE UNIV,DEPT SEMICON PHYS,VILNIUS
2054,LITHUANIA.

Kaxiras, E., Zeger, L.M., Antonelli, A. and Juan, Y.M. (1994).

Electronic-Properties of a Cluster-Based Solid Form of Carbon - C₂₈ Hyperdiamond.

Physical Review B 49(12): 8446-8453.

HARVARD UNIV,DIV APPL SCI,CAMBRIDGE,MA 02138. UNIV ESTADUAL
CAMPINAS,UNICAMP,INST FIS,BR-13081 CAMPINAS,SP,BRAZIL.
KAXIRAS, E, HARVARD UNIV,DEPT PHYS,CAMBRIDGE,MA 02138.

Latge, A., Dediosleyva, M. and Oliveira, L.E. (1994).

Donor-Excited States and Infrared-Transition Strengths in Cylindrical Gaas-(Ga,Al)as Quantum-Well Wires.

Physical Review B 49(15): 10450-10455.

UNIV HAVANA,DEPT PHYS,HAVANA,CUBA. UNICAMP,INST FIS,BR-
13083970 SAO PAULO,BRAZIL.

LATGE, A, UNIV FED FLUMINENSE, INST FIS, BR-24020
NITEROI, RJ, BRAZIL.

Polak, C., Knobel, M., Grossinger, R. and Turtelli, R.S. (1994).

The Development of Nanocrystalline Fe_{73.5}Cu₁Nb₃Si_{13.5}B₉ - Magnetism and Structural Disorder.

Journal of Magnetism and Magnetic Materials 134(1): 1-12.

VIENNA TECH UNIV, INST EXPTL PHYS, WIEDNER HAUPTSTR 8-10, A-1040
VIENNA, AUSTRIA. VACUUMSCHMELZE GMBH, W-6450 HANAU, GERMANY.
IST ELETTROTECNICO NAZL GALILEO FERRARIS, I-10125 TURIN, ITALY.
UNIV ESTADUAL CAMPINAS, INST FIS GLEB WATAGHIN, BR-13081905
CAMPINAS, SP, BRAZIL.

1993

Arantes, D.R., Huang, X.Y., Marte, C. and Kirchheim, R. (1993).

Hydrogen Diffusion and Permeation in Microcrystalline and Nanocrystalline Nickel.

Acta Metallurgica Et Materialia 41(11): 3215-3222.

SINGAPORE INST STAND & IND RES, MAMC, SINGAPORE, SINGAPORE. MAX
PLANCK INST WERKSTOFFWISSENSCH, W-7000 STUTTGART 10, GERMANY.
ARANTES, DR, UNICAMP, HYDROGEN LAB, BR-13081 CAMPINAS, SP, BRAZIL.

Craievich, A.F., Alves, O.L. and Barbosa, L.C. (1993).

Saxs Study of Nucleation and Growth of CdTe_{1-x}Se_x Semiconductor
Nanocrystals in Borosilicate Glass.

Journal De Physique Iv 3(C8): 373-376.

UNICAMP, INST QUIM, BR-13081970 CAMPINAS, SP, BRAZIL. UNICAMP, INST
FIS, BR-13081970 CAMPINAS, SP, BRAZIL.
CRAIEVICH, AF, CNPQ, NACL LUZ SINCROTRON LAB, CX POSTAL 6192, BR-
13081970 CAMPINAS, SP, BRAZIL.

Emmerich, F.G. and Luengo, C.A. (1993).

Young Modulus of Heat-Treated Carbons - a Theory for Nongraphitizing Carbons.

Carbon 31(2): 333-339.

UNIV ESTADUAL CAMPINAS, INST FIS GLEB WATAGHIN, BR-13081
CAMPINAS, SP, BRAZIL.

EMMERICH, FG, UNIV FED ESPIRITO SANTO, DEPT FIS & QUIM, BR-29069
VITORIA, ES, BRAZIL.

Fragnito, H.L., Rios, J.M.M., Duarte, A.S., Palange, E., Neto, J.A.M., Cesar, C.L., Barbosa, L.C., Alves, O.L. and Cruz, C.H.B. (1993).
Nonlinear-Optical Properties and Femtosecond Dynamics of CdTe Quantum Dots.
Journal of Physics-Condensed Matter 5: A179-A180.

FRAGNITO, HL, UNICAMP, INST FIS GLEB WATAGHIN, BR-13081
CAMPINAS, SP, BRAZIL.

Iwasaki, H. and Torikai, D. (1993).
Thermal-Shock of Quartz Lascas.
Journal of Materials Science 28(19): 5223-5228.

UNICAMP, FAC ENGN MECAN, DEPT MAT, QUARTZO LAB, BR-13100
CAMPINAS, SP, BRAZIL.

Knobel, M., Sinnecker, J.P., Saenger, J.F. and Turtelli, R.S. (1993).
Effect of as-Cast Topological Disorder on the Magnetic-Properties of Nanocrystalline Fe_{73.5}Cu₁Nb₃Si_{13.5}B₉.
Philosophical Magazine B-Physics of Condensed Matter Statistical Mechanics Electronic Optical and Magnetic Properties 68(6): 861-867.

VIENNA TECH UNIV, INST EXPTL PHYS, A-1040 VIENNA, AUSTRIA. STATE UNIV CAMPINAS, DFESCM, IFGW, BR-13081-970 CAMPINAS, SP, BRAZIL.
KNOBEL, M, IST ELETTRATECNICO NAZL GALILEO FERRARIS, CSO MASSIMO DAZEGLIO 42, I-10125 TURIN, ITALY.

Teschke, O., Alvarez, F., Tessler, L. and Kleinke, M.U. (1993).
Nanosize Structures Connectivity in Porous Silicon and Its Relation to Photoluminescence Efficiency.

Applied Physics Letters 63(14): 1927-1929.

TESCHKE, O, INST FIS,UNICAMP 970,BR-13081 CAMPINAS,SP,BRAZIL.

Teschke, O., Goncalves, M.C. and Galembeck, F. (1993).

Etching Technique for Transmission Electron-Microscopy Observation of Nanostructure of Visible Luminescent Porous Silicon.

Applied Physics Letters 63(10): 1348-1350.

UNICAMP,IQ,BR-13081-970 CAMPINAS,SP,BRAZIL.

TESCHKE, O, UNICAMP,IF,DFA,BR-13081-970 CAMPINAS,SP,BRAZIL.

Varhue, W.J., Massimo, M., Carrulli, J.M., Baranauskas, V., Adams, E. and Broitman, E. (1993).

Deposition of Y₂O₃ by Plasma-Enhancedganometallic Chemical-Vapor-Deposition Using an Electron-Cyclotron-Resonance Source.

Journal of Vacuum Science & Technology a-Vacuum Surfaces and Films 11(4): 1870-1874.

ADV TECHNOL MAT INC,DANBURY,CT 06810. STATE UNIV
CAMPINAS,DEPT SEMICOND & PHOTON,BR-13083 CAMPINAS,SP,BRAZIL.
IBM CORP,ESSEX JCT,VT 05452. UNIV BUENOS AIRES,DEPT
PHYS,BUENOS AIRES,ARGENTINA.

VARHUE, WJ, UNIV VERMONT,DEPT ELECT ENGN,BURLINGTON,VT 05405.

1992

Baranauskas, V., Fukui, M., Rodrigues, C.R., Parizotto, N. and Travaairoldi, V.J. (1992).

Direct Observation of Chemical Vapor-Deposited Diamond Films by Atomic Force Microscopy.

Applied Physics Letters 60(13): 1567-1589.

INST SPACE RES,DEPT MECH,SAO JOSE CAMPOS,SP,BRAZIL.

BARANAUSKAS, V, STATE UNIV CAMPINAS,DEPT SEMICOND &
PHOTON,BR-13083 CAMPINAS,SP,BRAZIL.

Delima, O.F. (1992).

Evidence of Surface Superconductivity in the High-Tc Oxides.
Solid State Communications 81(5): 411-413.

DELIMA, OF, UNIV ESTADUAL CAMPINAS, INST FIS, BR-13081
 CAMPINAS, SP, BRAZIL.

Knobel, M., Turtelli, R.S. and Rechenberg, H.R. (1992).
 Compositional Evolution and Magnetic-Properties of Nanocrystalline
 $\text{Fe}_{73.5}\text{Cu}_{1}\text{Nb}_{3}\text{Si}_{13.5}\text{B}_9$.
Journal of Applied Physics 71(12): 6008-6012.

UNIV SAO PAULO, INST FIS, BR-01498 SAO PAULO, BRAZIL.
 KNOBEL, M, UNICAMP, INST FIS GLEB WATAGHIN, CAIXA POSTAL 6165, BR-
 13081 CAMPINAS, SP, BRAZIL.

1991

Allia, P., Beatrice, C., Vinai, F., Knobel, M. and Turtelli, R.S. (1991).
 Suppression of the Magnetic-Permeability Relaxation in Nanocrystalline
 $\text{Fe}_{73.5}\text{Cu}_{1}\text{Nb}_{3}\text{Si}_{13.5}\text{B}_9$.
Applied Physics Letters 59(19): 2454-2456.

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