

## Peer-reviewed journal articles

### 1)-Quantitative estimation of the threefold and fourfold carbon coordination in amorphous CN<sub>x</sub> films

Trusso S. 1; Mezzasalma A.M. 2; Mondio G. 3; Neri F. 4subjectCarbon NitridessubjectLaser AblationssubjectElectronic propertie  
*Applied physics letters* 78 (2001): 326–328.

<http://www.cnr.it/prodotto/i/39224>

info:cnr-pdr/source/autori:Trusso S. 1, Mezzasalma A.M. 2, Mondio G. 3, Neri F. 4/titolo:Quantitative estimation of the threefold and fourfold carbon coordination in amorphous CN<sub>x</sub> films/

### 2)-Different contrast mechanisms induced by topography artifacts in Near-Field Optical Microscopy

Gucciardi P.G.; Colocci M.subjectNanomaterialsssubjectOpticsssubjectSpectroscopy  
*Applied physics letters* 79 (2001): 1543–1545.

<http://www.cnr.it/prodotto/i/39226>

info:cnr-pdr/source/autori:Gucciardi P.G., and Colocci M./titolo:Different contrast mechanisms induced by topography artifacts in Near-Field Optical Microscopy/

### 3)-Controlled dumping of pulses of laser radiation ranging from MIR to the FIR by means of optical semiconductor switching

Marchetti S.; Martinelli M.; Simili R.; Giorgi M.; Fantoni R.subjectinfrarossosubjectimpulsi cortisubjectalta potenza  
*72 (2001): 927–930.*

<http://www.cnr.it/prodotto/i/39262>

info:cnr-pdr/source/autori:Marchetti S., Martinelli M., Simili R., Giorgi M., Fantoni R./titolo:Controlled dumping of pulses of laser radiation ranging from MIR to the FIR by means of optical semiconductor switching/

### 4)-Dynamical suppression of atomic peaks in resonant dissociative photoemission

P. Salek; V. Carravetta; FK Gel'mukhanov; H. Agren; B. Schimmelpfennig; MN Piancastelli L. Sorensen; R. Feifel; I. Hjelte; M. Bassler; S. Svensson; O. Bjorneholm; A. de-Britosubjecttheorysubjectresonant Auger decaysubjectHFsubjectdissociationsubjectatomic peaks  
*Chemical physics letters (Print)* 343 (2001): 332–338.

<http://www.cnr.it/prodotto/i/39942>

info:cnr-pdr/source/autori:P. Salek, V. Carravetta, FK Gel'mukhanov, H. Agren, B. Schimmelpfennig, MN Piancastelli L. Sorensen, R. Feifel, I. Hjelte, M. Bassler, S. Svensson, O. Bjorneholm, A. de-Brito/titolo:Dynamical suppression of atomic peaks in resonant dissociative photoemission/

**5)-An investigation of the electronic and structural properties of pulsed laser-deposited a-C films**

Neri F; Mondio G; Mezzasalma AM; Fazio E; Trusso S; Fazio B

*Thin solid films (Print)* 398 (2001): 233–237.

<http://www.cnr.it/prodotto/i/40305>

info:cnr-pdr/source/autori:Neri F, Mondio G, Mezzasalma AM, Fazio E, Trusso S, Fazio B/titolo:An investigation of the electronic and structural properties of pulsed laser-deposited a-C films/

**6)-Scaling of local density correlations in a fluid close to freezing**

Saija, F; Prestipino, S; Giaquinta, PV

*The Journal of chemical physics* 115 (2001): 7586–7591.

<https://dx.doi.org/10.1063/1.1406528>

**7)-Short length-scale dynamics of polyisobutylene by molecular**

Karatasos K.; Saija F.; Ryckaert JP

*Physica. B + C (Online)* 301 (2001): 119–125.

[https://dx.doi.org/10.1016/S0921-4526\(01\)00522-1](https://dx.doi.org/10.1016/S0921-4526(01)00522-1)

**8)-Volumetric properties of (an organic compound + di-n-butyl ether) at 298.15K**

Bernazzani L.; Ceccanti N.; Conti. G; Gianni P.; Mollica V.; Tinè M.R.; Lepori L.; Matteoli E.; Spanedda A.

*Journal of Chemical Thermodynamics* 33 (2001): 629–641.

<http://www.cnr.it/prodotto/i/40528>

info:cnr-pdr/source/autori:Bernazzani L., Ceccanti N., Conti. G, Gianni P., Mollica V., Tinè M.R., Lepori L., Matteoli E., Spanedda A./titolo:Volumetric properties of (an organic compound + di-n-butyl ether) at 298.15K/

**9)-Sucrose solutions as prospective medium to study the vesicle structure: SAXS and SANS study**

Kiselev M.A.; Lesieur O.; Kisselev A.M.; Lombardo D.; Killany M.; Lesieur S.

*Journal of alloys and compounds* 328 (2001): 71–76.

<http://www.cnr.it/prodotto/i/40665>

info:cnr-pdr/source/autori:Kiselev M.A.; Lesieur O.; Kisselev A.M.; Lombardo D.; Killany M.; Lesieur S./titolo:Sucrose solutions as prospective medium to study the vesicle structure: SAXS and SANS study/

**10)-Glass and percolation transitions in dense attractive micellar system**

Mallamace F.; Beneduci R.; Gambadauro P.; Lombardo D.; Chen S.H.

*Physica. A (Print)* 302 (2001): 202–219.

<http://www.cnr.it/prodotto/i/40666>

info:cnr-pdr/source/autori:Mallamace F.; Beneduci R.; Gambadauro P.; Lombardo D.; Chen S.H./titolo:Glass and percolation transitions in dense attractive micellar system/

**11)-A sucrose solutions application to the study of model biological membranes**

Kiselev M.A.; Lesieur P.; Kisselev A.M.; Lombardo D.; Killany M.; Lesieur S.; Ollivon M.  
*NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT* 470 (2001): 409–416.

<http://www.cnr.it/prodotto/i/40667>

info:cnr-pdr/source/autori:Kiselev M.A.; Lesieur P.; Kisselev A.M.; Lombardo D.; Killany M.; Lesieur S.; Ollivon M./titolo:A sucrose solutions application to the study of model biological membranes/

**12)-Diffusive dynamics of water in the presence of homologous disaccharides: a comparative study by Quasi Elastic Neutron Scattering.IV.**

S. Magazù; V. Villari; P. Migliardo; G. Maisano; M.T.F. Telling  
*The journal of physical chemistry. B* 105 (2001): 1851–1855.

<https://dx.doi.org/10.1021/jp002155z>

**13)-Separation of scattering and absorption contributions in UV/visible spectra of resonant systems**

N. Micali; F. Mallamace; M. Castriciano; A. Romeo; L.M. Scolaro  
*Analytical chemistry (Wash.)* 73 (2001): 4958–4963.

<http://www.cnr.it/prodotto/i/40824>

info:cnr-pdr/source/autori:N. Micali, F. Mallamace, M. Castriciano, A. Romeo, L.M. Scolaro/titolo:Separation of scattering and absorption contributions in UV/visible spectra of resonant systems/

**14)-Memory effects in MOS capacitors with silicon quantum dots**

Crupi I; Lombardo S; Spinella C; Gerardi C; Fazio B; Vulpio M; Melanotte M; Liao Y; Bongiorno C  
*Materials science & engineering. C, Biomimetic materials, sensors and systems (Print)* 15 (2001): 283–285.

[https://dx.doi.org/10.1016/S0928-4931\(01\)00220-X](https://dx.doi.org/10.1016/S0928-4931(01)00220-X)

**15)-Electrical and structural characterization of metal-oxide-semiconductor capacitors with silicon rich oxide**

Crupi I; Lombardo S; Spinella C; Bongiorno C; Liao Y; Gerardi C; Fazio B; Vulpio M; Privitera S  
*Journal of applied physics* 89 (2001): 5552–5558.

<http://www.cnr.it/prodotto/i/170764>

info:cnr-pdr/source/autori:Crupi I, Lombardo S, Spinella C, Bongiorno C, Liao Y, Gerardi C, Fazio B, Vulpio M, Privitera S/titolo:Electrical and structural characterization of metal-oxide-semiconductor capacitors with silicon rich oxide/

**16)-Quasielastic neutron scattering study on disaccharide aqueous solutions**

Magazù; S.; Villari; V.; Migliardo; P.; Maisano; G.; Telling; M.T.F.; Middendorf; H.D.

*Physica. B, Condensed matter (Print)* 301 (2001): 130–133.

[https://dx.doi.org/10.1016/S0921-4526\(01\)00524-5](https://dx.doi.org/10.1016/S0921-4526(01)00524-5)

**17)-Hydroxyl end groups influence in vibrational and transport properties in polymer/monomer solutions: the PEO/EG case**

Crupi; V.; Faraone; A.; Majolino; D.; Migliardo; P.; Venuti; V.; Villari; V.

*Molecular physics (Print)* 99 (2001): 1525–1533.

<http://www.cnr.it/prodotto/i/209329>

info:cnr-pdr/source/autori:Crupi, V., Faraone, A., Majolino, D., Migliardo, P., Venuti, V., Villari, V./titolo:Hydroxyl end groups influence in vibrational and transport properties in polymer/monomer solutions: the PEO/EG case/

**18)-Vertical coupling effects in arrays of InAs quantum dots**

Taddei, S.; Colocci, M.; Vinattieri, A.; Gucciardi, P.G.; Bogani, F.; Franchi, S.; Frigeri, P.; Lazzarini, L.; Salviati, G.subjectDETERMINISTIC NUMERICAL-METHODSsubjectELECTRONIC-STRUCTUREsubjectSTRAIN DISTRIBUTIONsubjectGROWTHsubjectPATTERNS

*Physica status solidi. B, Basic research* 224 (2001): 413–417.

[https://dx.doi.org/10.1002/1521-3951\(200103\)224:2<413::AID-PSSB413>3.3.CO;2-Y](https://dx.doi.org/10.1002/1521-3951(200103)224:2<413::AID-PSSB413>3.3.CO;2-Y)

**19)-Near-field optical spectroscopy of multiple stacked planes of GaN/AlN quantum dots**

Gucciardi, P.G.; Vinattieri, A.; Colocci, M.; Damilano, B.; Grandjean, N.; Semond, F.; Massies, J.

*Physica status solidi. B, Basic research* 224 (2001): 53–56.

<http://www.cnr.it/prodotto/i/216119>

info:cnr-pdr/source/autori:Gucciardi, P.G.; Vinattieri, A.; Colocci, M.; Damilano, B.; Grandjean, N.; Semond, F.; Massies, J./titolo:Near-field optical spectroscopy of multiple stacked planes of GaN/AlN quantum dots/

**20)-Photoluminescence properties of multiple stacked planes of GaN/AlN quantum dots studied by near-field optical microscopy**

Gucciardi, P.G.; Vinattieri, A.; Colocci, M.; Damilano, B.; Grandjean, N.; Semond, F.; Massies, J.

*Journal of microscopy (Print)* 202 (2001): 212–217.

<http://www.cnr.it/prodotto/i/216128>

info:cnr-pdr/source/autori:Gucciardi, P.G.; Vinattieri, A.; Colocci, M.; Damilano, B.; Grandjean, N.; Semond, F.; Massies, J./titolo:Photoluminescence properties of multiple stacked planes of GaN/AlN quantum dots studied by near-field optical microscopy/

**21)-Temperature dependence of damping and frequency shifts of the scissors mode of a trapped Bose-Einstein condensate**

Onofrio Marago'; Gerald Hechenblaikner; Eleanor Hodby; Christopher Foot

*Physical review letters* 86 (2001): 3938–3941.

<https://dx.doi.org/10.1103/PhysRevLett.86.3938>

**22)-Experimental observation of Beliaev coupling in a Bose-Einstein condensate**

E. Hodby; O.M. Marago'; G. Hechenblaikner; C. J. Foot

*Physical review letters* 86 (2001): 2196–2199.

<https://dx.doi.org/10.1103/PhysRevLett.86.2196>

**23)-In-layer conductivity and photoconductivity in MnPSe<sub>3</sub>, CdPSe<sub>3</sub>, and CdPS<sub>3</sub>**

A Carnabuci; V Grasso; L Silipigni; G Salvato; subjectPHYSICAL-PROPERTIES; OPTICAL-SPECTRA; NIPS<sub>3</sub>; TRANSITION; CRYSTALS; CD<sub>2</sub>P<sub>2</sub>S<sub>6</sub>; PHASE

*Journal of applied physics* 90 (2001): 4526–4531.

<https://dx.doi.org/10.1063/1.1406545>

**24)-Pulsed Laser Deposition of Hydroxyapatite Films by KrF Excimer**

G. Di Marco; L. Torrisi; S. Trusso; P. Parisi

*Physica medica (Online) XVII* (2001): 227–231.

<http://www.cnr.it/prodotto/i/248946>

info:cnr-pdr/source/autori:G. Di Marco, L. Torrisi, S. Trusso, P. Parisi/titolo:Pulsed Laser Deposition of Hydroxyapatite Films by KrF Excimer/

**25)-Dynamics of segmental relaxations for cyanurate containing semi-interpenetrating polymer networks**

A. Bartolotta; G. Di Marco; F. Farsaci

*Atti della Accademia Peloritana dei Pericolanti, Classe di Scienze Medico-Biologiche LXXIX* (2001).

<http://www.cnr.it/prodotto/i/248949>

info:cnr-pdr/source/autori:A. Bartolotta, G. Di Marco, F. Farsaci/titolo:Dynamics of segmental relaxations for cyanurate containing semi-interpenetrating polymer networks/

**26)-Characterization of pulsed laser deposited a-C films by means of reflection electron energy loss spectroscopy**

Barreca; F.; Mezzasalma; A.M.; Mondio; G.; Neri; F.; Trusso; S.

*Thin solid films (Print)* 398-399 (2001): 228–232.

[https://dx.doi.org/10.1016/S0040-6090\(01\)01449-3](https://dx.doi.org/10.1016/S0040-6090(01)01449-3)

**27)-Porous interstellar grains**

M.A. Iatì; C. Cecchi-Pestellini; D.A. Williams; F. Borghese; P. Denti; R. Saija; S. Aiello  
subjectISM: abundances - dustsubjectextinction  
*Monthly notices of the Royal Astronomical Society (Print)* 322 (2001): 749–756.  
<https://dx.doi.org/10.1046/j.1365-8711.2001.04166.x>

**28)-Optical properties of a dispersion of anisotropic particles with non-randomly distributed orientations. The case of atmospheric ice crystals.**

F. Borghese; P. Denti; R. Saija; M.A. Iatì; O. I. Sindoni  
subjectoptical propertiessubjectatmospheric ice crystals  
*Journal of Quantitative Spectroscopy & Radiative Transfer* 70 (2001): 237–251.  
<http://www.cnr.it/prodotto/i/256744>

info:cnr-pdr/source/autori:F. Borghese, P. Denti, R. Saija, M.A. Iatì, O. I. Sindoni/titolo:Optical properties of a dispersion of anisotropic particles with non-randomly distributed orientations. The case of atmospheric ice crystals./

**29)-Beyond Mie Theory: the Transition Matrix Approach in Interstellar Dust Modeling**

R. Saija; M.A. Iatì; F. Borghese; P. Denti; S. Aiello; C. Cecchi-Pestellini  
subjectdustsubjectextinctionsubjectradiative transfersubjectscattering  
*The Astrophysical journal* 559 (2001): 993–1004.  
<https://dx.doi.org/10.1086/322350>

**30)-Backscattered intensity from model atmospheric ice crystals in the millimeter wave range**

R. Saija; M.A. Iatì; P. Denti; F. Borghese; O. I. Sindoni  
subjectlight scattering  
*Applied optics-OT* 40 (2001): 5337–5342.  
<http://www.cnr.it/prodotto/i/260258>

info:cnr-pdr/source/autori:R. Saija, M.A. Iatì, P. Denti, F. Borghese, O. I. Sindoni/titolo:Backscattered intensity from model atmospheric ice crystals in the millimeter wave range/

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**Other publications (journals without peer review, book reviews,etc.)**

**1)-Optical Constants from reflection electron energy loss spectroscopy: theory and applications**

Trusso S.; Mondio G.; Mezzasalma A.M.; Neri F.; Barreca F.

. *Trivandrum: Transworld Research Network, 2001*

<http://www.cnr.it/prodotto/i/137206>

info:cnr-pdr/source/autori:Trusso S., Mondio G., Mezzasalma A.M., Neri F. , Barreca F./titolo:Optical Constants from reflection electron energy loss spectroscopy: theory and applications/titolo\_volume:/curatori\_volume:/editore:

/anno:2001

**2)-Pulsed laser deposition of silicon and carbon based thin films**

Trusso S.; Neri F.; Barreca F.; Vasi C.; Fazio E.

. *Trivandrum: Transworld Research Network, 2001*

<http://www.cnr.it/prodotto/i/137207>

info:cnr-pdr/source/autori:Trusso S., Neri F. , Barreca F. , Vasi C., Fazio E./titolo:Pulsed laser deposition of silicon and carbon based thin films/titolo\_volume:/curatori\_volume:/editore:

/anno:2001

**3)-PERSPECTIVES OF INTERPENETRATING POLYMER NETWORKS IN BIOMECHANICAL APPLICATIONS**

G. Di Marco; A. Bartolotta; M. Lanza

2001

<http://www.cnr.it/prodotto/i/137275>

info:cnr-pdr/source/autori:G. Di Marco, A. Bartolotta, M. Lanza/titolo:PERSPECTIVES OF INTERPENETRATING POLYMER NETWORKS IN BIOMECHANICAL APPLICATIONS/editore:/anno:2001

**4)-AN OPTICAL OXYGEN SENSOR BASED ON QUENCHING OF Ru(II) COMPLEX IMMOBILIZED IN A POLYMERIC MATRIX FOR BIOSENSING**

G. Di Marco; A. Bartolotta; G. Calogero; M. Lanza

2001

<http://www.cnr.it/prodotto/i/137276>

info:cnr-pdr/source/autori:G. Di Marco, A. Bartolotta, G. Calogero, M. Lanza/titolo:AN OPTICAL OXYGEN SENSOR BASED ON QUENCHING OF Ru(II) COMPLEX IMMOBILIZED IN A POLYMERIC MATRIX FOR BIOSENSING/editore:/anno:2001

**5)-Low temperature specific heat of AgI-Ag<sub>2</sub>O-B<sub>2</sub>O<sub>3</sub>**

G. Carini; G. D'Angelo; G. Tripodo; A. Bartolotta; G. Di Marco; G. Salvato

*8th Int. Workshop on Disordered Systems. Marzo 12-15 2001, Andalo (Trento), Andalo, Trento, Italy, 12-15 Marzo, 2001*

<http://www.cnr.it/prodotto/i/250706>

info:cnr-pdr/source/autori:G. Carini, G. D'Angelo, G. Tripodo, A. Bartolotta, G. Di Marco, G. Salvato/congresso\_nome:8th Int. Workshop on Disordered Systems. Marzo 12-15 2001, Andalo (Trento)/congresso\_luogo:Andalo, Trento, Italy/congresso\_data:12-15 Marzo, 2001/anno:2001/pagina\_da:/pagina\_a:/intervallo\_pagine:

**6)-Mechanical behaviour of cyanurate containing full-IPNs**

A. Bartolotta; G. Di Marco; M. Lanza; G. Carini; G. D'Angelo; G. Tripodo; A. Fainleib.

*4th Int. Discussion Meeting on relaxations in complex systems., Creta, Luglio 18-26 2001*

<http://www.cnr.it/prodotto/i/250711>

info:cnr-pdr/source/autori:A. Bartolotta, G. Di Marco, M. Lanza, G. Carini, G. D'Angelo, G. Tripodo, A. Fainleib./congresso\_nome:4th Int. Discussion Meeting on relaxations in complex systems./congresso\_luogo:Creta/congresso\_data:Luglio 18-26 2001/anno:2001/pagina\_da:/pagina\_a:/intervallo\_pagine:

**7)-An Optical Oxygen Sensor Based On Quenching Of Ru(II) Complex Immobilized In A Polymeric Matrix For Biosensing**

G. Di Marco; A. Bartolotta; G. Calogero; M. Lanza

*V Giornata di Studio Su Biomateriali e loro Applicazioni in Biomeccanica. Catania, 6 Luglio 2001., Catania, 6 Luglio 2001*

<http://www.cnr.it/prodotto/i/250714>

info:cnr-pdr/source/autori:G. Di Marco, A. Bartolotta, G. Calogero, M. Lanza/congresso\_nome:V Giornata di Studio Su Biomateriali e loro Applicazioni in Biomeccanica. Catania, 6 Luglio 2001./congresso\_luogo:Catania/congresso\_data:6 Luglio 2001/anno:2001/pagina\_da:/pagina\_a:/intervallo\_pagine:



### **8)-Perspectives Of Interpenetrating Polymer Networks In Biomechanical Applications**

G. Di Marco; A. Bartolotta; M. Lanza

*V Giornata di Studio Su Biomateriali e loro Applicazioni in Biomeccanica., Catania, 6 Luglio 2001*

<http://www.cnr.it/prodotto/i/250718>

info:cnr-pdr/source/autori:G. Di Marco, A. Bartolotta, M. Lanza/congresso\_nome:V Giornata di Studio Su Biomateriali e loro Applicazioni in Biomeccanica./congresso\_luogo:Catania/congresso\_data:6 Luglio 2001/anno:2001/pagina\_da:/pagina\_a:/intervallo\_pagine:

### **9)-Sucrose influence on the properties of unilamellar phospholipid vesicles: SANS, SAXS and DLS study**

Kiselev M.A.; Janich M.; Lesieur P.; Lombardo D.; Kisselev A.M.; Wartewig S.; Neubert R.

*II Russian-German User Meeting, Dubna, Russia., 23-35 aprile 2001*

<http://www.cnr.it/prodotto/i/270828>

info:cnr-pdr/source/autori:Kiselev M.A., Janich M., Lesieur P., Lombardo D., Kisselev A.M., Wartewig S., Neubert R./congresso\_nome:II Russian-German User Meeting/congresso\_luogo:Dubna, Russia./congresso\_data:23-35 aprile 2001/anno:2001/pagina\_da:/pagina\_a:/intervallo\_pagine:

### **10)-The study of sucrose influence on the structure and properties of dimyristoylphosphatidylcholine membranes.**

Kiselev M.A.; Lesieur P.; Lombardo D.; Ollivon M.; Kiselev A.M.; Janich M.; Wartewig S.

*RSNE 2001, Moscow - Russian Federation, 21-25 maggio 2001*

<http://www.cnr.it/prodotto/i/270829>

info:cnr-pdr/source/autori:Kiselev M.A., Lesieur P., Lombardo D., Ollivon M., Kiselev A.M., Janich M., Wartewig S./congresso\_nome:RSNE 2001/congresso\_luogo:Moscow - Russian Federation/congresso\_data:21-25 maggio 2001/anno:2001/pagina\_da:/pagina\_a:/intervallo\_pagine:

### **11)-Model of separated form factors for unilamellar vesicles**

Kiselev M.A.; Lesieur P.; Kiselev A.M.; Lombardo D.; Aksenov V.L.

*International Conference on Neutron Scattering. ICNS'2001, Monaco - Germania, 9-13 settembre 2001*

<http://www.cnr.it/prodotto/i/270830>

info:cnr-pdr/source/autori:Kiselev M.A., Lesieur P., Kiselev A.M., Lombardo D., Aksenov V.L./congresso\_nome:International Conference on Neutron Scattering. ICNS'2001/congresso\_luogo:Monaco - Germania/congresso\_data:9-13 settembre 2001/anno:2001/pagina\_da:/pagina\_a:/intervallo\_pagine:

**12)-Study of glass transition in DPPC/DMSO/water system at low temperatures**

Kiselev M.A.; Gutberlet T.; Kisselev A.M.; Gapienko I.V.; Lombardo D.; Janich M.; Hauss T.; Ollivon M.; Lesieur P.

*International Conference on Neutron Scattering. ICNS'2001, Monaco - Germania, 3-9 Settembre 2001*

<http://www.cnr.it/prodotto/i/270831>

info:cnr-pdr/source/autori:Kiselev M.A., Gutberlet T., Kisselev A.M., Gapienko I.V., Lombardo D., Janich M., Hauss T., Ollivon M., Lesieur P./congresso\_nome:International Conference on Neutron Scattering. ICNS'2001/congresso\_luogo:Monaco - Germania/congresso\_data:3-9 Settembre 2001/anno:2001/pagina\_da:/pagina\_a:/intervallo\_pagine: