

## Peer-reviewed journal articles

### 1)-Surface-enhanced Raman scattering of SnO<sub>2</sub> bulk material and colloidal solutions

E. Fazio; F. Neri; S. Savasta; S. Spadaro S. Trusso

*Physical review. B, Condensed matter and materials physics (Online)* 85 (2012): 195423-1–195423-7.

<https://dx.doi.org/10.1103/PhysRevB.85.195423>

### 2)-Critical Slowing Down Exponents of Mode Coupling Theory

Caltagirone F.; Ferrari U.; Leuzzi L.; Parisi G.; Ricci-Tersenghi F.; Rizzo T. SUBJECT SPIN-GLASS MODEL; FINITE-SIZE CORRECTIONS; MEAN-FIELD THEORY; METASTABLE STATES; POTTS GLASS; ORDER PARAMETERS; DYNAMICS; TRANSITION; PHASE; RELAXATION

*Physical review letters* 108 (2012): 085702.

<https://dx.doi.org/10.1103/PhysRevLett.108.085702>

### 3)-Sectionally analytic solutions of the Vlasov-Poisson equations

NOCERA L.; PALUMBO L. JSUBJECT plasma: kinetic equations SUBJECT Solitons SUBJECT BGK modes SUBJECT Integral equations of the convolution type SUBJECT Electrostatic and high-frequency confinement

*Journal of physics. A, Mathematical and theoretical (Print)* 45 (2012): 105501-1–105501-12.

<https://dx.doi.org/10.1088/1751-8113/45/10/105501>

### 4)-Comparative study about preparation of poly(lactide)/Organophilic montmorillonites nanocomposites through melt blending or ring opening polymerization methods

Castiello S.; Coltelli M.B.; Conzatti L.; Bronco S. SUBJECT nanocomposites SUBJECT PLASUBJECT montmorillonite

*Journal of applied polymer science (Print)* 125 (2012): E413–E428.

<https://dx.doi.org/10.1002/app.36313>

### 5)-Structural and spectroscopic features of lutein/butanoyl-beta-cyclodextrin nanoassemblies

Stancanelli, R; Lojkner, LD; Larsen, KL; Guardo, M; Cannava, C; Tommasini, S; Ventura, CA; Calabro, ML; Micali, N; Villari, V; Mazzaglia, A

*Journal of pharmaceutical and biomedical analysis (Print)* 71 (2012): 214–218.

<https://dx.doi.org/10.1016/j.jpba.2012.07.034>

### 6)-Scattering enhancement in colloidal metal-organic composite aggregates

Villari, V.; Fazio, B; De Luca, G; Trapani, M; Romeo, A; Scolaro, L.M; Castriciano, M.A.; Mazzaglia, A; Micali, N

*Colloids and surfaces. A, Physicochemical and engineering aspects (Print)* 413 (2012): 13–16.

<https://dx.doi.org/10.1016/j.colsurfa.2012.03.009>

**7)-Reading of Protein Surfaces in the Native State at Micromolar Concentrations by a Chirogenetic Porphyrin Probe**

Mineo, P; Micali, N; Villari, V; Donato, MG; Scamporrino, E

*Chemistry (Weinh., Print)* 18 (2012): 12452–12457.

<https://dx.doi.org/10.1002/chem.201200784>

**8)-Modulated heterodyne light scattering set-up for measuring long relaxation time at small and wide angle**

Leone, N; Villari, V; Micali, N

*Review of scientific instruments* 83 (2012): 083102.

<https://dx.doi.org/10.1063/1.4739775>

**9)-Self-Assembled Calixarene Derivative as a Supramolecular Polymer**

Villari, V; Gattuso, G; Notti, A; Pappalardo, A; Micali, N

*The journal of physical chemistry. B* 116 (2012): 5537–5541.

<https://dx.doi.org/10.1021/jp300848n>

**10)-Amino acids recognition by water-soluble uncharged porphyrin tweezers: Spectroscopic evidences in high optical density solutions**

Villari, V; Mineo, P; Scamporrino, E; Micali, N

*Chemical physics (Print)* 402 (2012): 118–123.

<https://dx.doi.org/10.1016/j.chemphys.2012.04.018>

**11)-Water-soluble star polymers with a phthalocyanine as the core and poly(ethylene glycol) chains as branches**

Mineo, P; Alicata, R; Micali, N; Villari, V; Scamporrino, E

*Journal of applied polymer science (Print)* 126 (2012): 1359–1368.

<https://dx.doi.org/10.1002/app.36631>

**12)-Selection of supramolecular chirality by application of rotational and magnetic forces**

Micali, N; Engelkamp, H; van Rhee, PG; Christianen, PCM; Scolaro, LM; Maan, JC

*Nature chemistry (Print)* 4 (2012): 201–207.

<https://dx.doi.org/10.1038/NCHEM.1264>

**13)-Kinetic effects of tartaric acid on the growth of chiral J-aggregates of tetrakis(4-sulfonatophenyl)porphyrin**

Castriciano, MA; Romeo, A; Zagami, R; Micali, N; Scolaro, LM

*Chemical communications (Lond., 1996, Print)* 48 (2012): 4872–4874.

<https://dx.doi.org/10.1039/c2cc00028h>

**14)-Role of the hydrogen-bond in porphyrin J-aggregates**

Villari, V; Mineo, P; Scamporrino, E; Micali, N

*RSC advances* 2 (2012): 12989–12998.

<https://dx.doi.org/10.1039/c2ra22260d>

**15)-Effects of the intercalation time on the dielectric properties of Na<sub>2</sub>xMn<sub>1</sub>xPS<sub>3</sub>**

L. Silipigni; L. Schiro` ; L. Monsu` Scolaro; G. De Luca; G. SalvatoSUBJECTLayered compoundsSUBJECTIntercalation reactionsSUBJECTImpedance spectroscopySUBJECTDielectric properties

*Materials research bulletin* 47 (2012): 2498-2505.

<http://dx.doi.org/10.1016/j.materresbull.2012.05.007>

info:cnr-pdr/source/autori:L. Silipigni, L. Schiro`, L. Monsu` Scolaro, G. De Luca, G. Salvato/titolo:Effects of the intercalation time on the dielectric properties of Na<sub>2</sub>xMn<sub>1</sub>xPS<sub>3</sub>/

**16)-New basis sets for the evaluation of the CO-Ne van der Waals complex interaction induced electric dipole moment and polarizability surfaces**

Baranowska-Laczowska, A; Fernandez, B; Rizzo, A; Jansik, BSUBJECTCO-Ne van der Waals complexSUBJECTbasis sets for interaction induced propertiesSUBJECTElectric dipole moment and polarizabilitySUBJECTsecond virial dielectric and refractivity coefficients

*Molecular physics (Online)* 110 (2012): 2503–2512.

<https://dx.doi.org/10.1080/00268976.2012.702933>

**17)-Interfacial and Annealing Effects on Primary alpha-Relaxation of Ultrathin Polymer Films Investigated at Nanoscale**

H.K. Nguyen; M. Labardi; S. Capaccioli; M. Lucchesi; P.A. Rolla; D. Prevosto

*Macromolecules (Online)* 45 (2012): 2138.

<http://www.cnr.it/prodotto/i/192131>

info:cnr-pdr/source/autori:H.K. Nguyen, M. Labardi, S. Capaccioli, M. Lucchesi, P.A. Rolla, D. Prevosto/titolo:Interfacial and Annealing Effects on Primary alpha-Relaxation of Ultrathin Polymer Films Investigated at Nanoscale/

**18)-The effect of the pi-electron delocalization curvature on the two-photon circular dichroism of molecules with axial chirality**

Diaz, C; Lin, N; Toro, C; Passier, R; Rizzo, A; Hernandez, F ESUBJECTcircular polarizationSUBJECTmolecular currentsSUBJECTmagnetic transition dipole momentSUBJECTbiaryl derivativesSUBJECTnonlinear rotatory strength

*The journal of physical chemistry letters* 3 (2012): 1808–1813.

<https://dx.doi.org/10.1021/jz300577e>

**19)-First-order properties and Buckingham birefringence of N<sub>2</sub>O and OCS - A computational (re)investigation**

Coriani, S; Puzzarini, C; Rizzo, ASUBJECTfirst-order propertiesSUBJECTdipole momentsSUBJECTquadrupole momentsSUBJECTelectric-field-gradient birefringence

*Molecular physics (Online)* 110 (2012): 2543–2555.

<https://dx.doi.org/10.1080/00268976.2012.709284>

**20)-EPR discrimination of microcrystalline calcite geomaterials**

Di Benedetto F; Bucciatti A; Montegrossi G; Innocenti M; Massa CA; Pardi L; Romanelli M  
SUBJECTEPR SUBJECT calcite SUBJECT geochemistry SUBJECT geomaterials SUBJECT manganese

*The American mineralogist* 97 (2012): 1619–1626.

<https://dx.doi.org/10.2138/am.2012.4168>

**21)-Phase composition of CuxS thin films: spectroscopic evidence of covellite formation**

Bencista I. [1]; Di Benedetto F. [1]; Innocenti M. [1,2]; De Luca A. [1]; Fornaciai G. [1]; Lavacchi A. [2]; Montegrossi G. [3]; Oberhauser W. [2]; Pardi L. [4]; Romanelli M. [1]; Vizza F. [2]; Foresti M.L.

[1] SUBJECT CuS SUBJECT XPSS SUBJECT AFMS SUBJECT covellite SUBJECT thin film

*European journal of mineralogy (Print)* 24 (2012): 879–884.

<https://dx.doi.org/10.1127/0935-1221/2012/0024-2229>

**22)-ESEEM of industrial quartz powders: insights into crystal chemistry of Al defects**

Romanelli M; Di Benedetto F; Bartali L; Innocenti M; Fornaciai G; Montegrossi G; Pardi L; Zoleo A; Capacci F  
SUBJECT Quartz; Hole centres; Al centres; EPR; ESEEM; Health effects

*Physics and chemistry of minerals* 39 (2012): 479–490.

<https://dx.doi.org/10.1007/s00269-012-0502-3>

**23)-Dynamical Line-Shifts in High-Field Electron Spin Resonance: Applications to Polymer Physics**

Vasile Bercu; Massimo Martinelli; Luca Pardi; Carlo Andrea Massa; Dino Leporini

*Zeitschrift für physikalische Chemie (Münch., 1991)* 226 (2012): 1379–1394.

<https://dx.doi.org/10.1524/zpch.2012.0283>

**24)-Amorphous/Crystal and Polymer/Filler Interphases in Biocomposites from Poly(butylene succinate)**

Signori F.; Pelagaggi M.; Bronco S.; Righetti M.C.

*Thermochimica Acta* 543 (2012): 74–81.

<https://dx.doi.org/10.1016/j.tca.2012.05.006>

**25)-The role of the rigid amorphous fraction on cold crystallization of poly(3-hydroxybutyrate)**

Di Lorenzo M.L.; Gazzano M.; Righetti M.C.

*Macromolecules (Online)* 45 (2012): 5684–5691.

<https://dx.doi.org/10.1021/ma30109071>

**26)-Nonlinear determination of the equilibrium melting temperature from initial nonreorganized crystals of poly(3-hydroxybutyrate)**

Righetti M.C.; Di Lorenzo M.L.

*Polymer engineering and science (Online)* 52 (2012): 2383–2390.

<https://dx.doi.org/10.1002/pen.23199>

**27)-Isothermal Cold-Crystallization of PLA/PBAT Blends With and Without the Addition of Acetyl Tributyl Citrate**

1. Enic Quero1. Alejandro J. Müller 2. Francesca Signori 3. Maria-Beatrice Coltelli4. Simona BroncoSUBJECTRenewable

materialsSUBJECTblendsSUBJECTcrystallizationSUBJECTplasticizer

*Macromolecular chemistry and physics (Internet)* 213 (2012): 36–48.

<https://dx.doi.org/10.1002/macp.201100437>

**28)-Isothermal Cold-Crystallization of PLA/PBAT Blends With and Without the Addition of Acetyl Tributyl Citrate**

Enic Quero; Alejandro J. Müller; Francesca Signori; Maria-Beatrice Coltelli; Simona BroncoSUBJECTRenewable

materialsSUBJECTblendsSUBJECTcrystallizationSUBJECTplasticizer

*Macromolecular chemistry and physics (Internet)* 213 (2012): 36–48.

<https://dx.doi.org/10.1002/macp.201100437>

**29)-Preparation of gelatin/polyoxypropylene grafted copolymers by isocyanate promoted "grafting onto" reaction**

Monica Bertoldo; Federica Cognigni; Simona BroncoSUBJECTGelatinSUBJECTGrafting ontoSUBJECTPolyoxypropylene

*Polymer (Guildford)* 53 (2012): 4595–4603.

<https://dx.doi.org/10.1016/j.polymer.2012.08.023>

**30)-Supramolecular Chiral Structures: Smart Polymer Organization Guided by 2D Polarization Light Patterns**

Ruiz U.; Pagliusi P.; Provenzano C.; Shibaev V.P.; Cipparrone G.

*Advanced functional materials (Print)* 22 (2012): 2964.

<https://dx.doi.org/10.1002/adfm.201200389>

**31)-Pure two-dimensional polarization patterns for holographic recording**

Ruiz, Ulises; Provenzano, Clementina; Pagliusi, Pasquale; Cipparrone, G.

*Optics letters* 37 (2012): 311.

<http://www.cnr.it/prodotto/i/192349>

info:cnr-pdr/source/autori:Ruiz, Ulises; Provenzano, Clementina; Pagliusi, Pasquale; Cipparrone, G./titolo:Pure two-dimensional polarization patterns for holographic recording/

**32)-Preparation and Properties of PTFE-PMMA Core-Shell Nanoparticles and Nanocomposites**

Antonioli D.; Laus M.; Zuccheri G.; Kapeliouchko V.; Righetti M.C.; Boarino L.; Sparnacci K.  
*Journal of Nanotechnology (Online)* 2012 (2012): 875815.  
<https://dx.doi.org/10.1155/2012/875815>

**33)-Generation of complex beams by means of polarization holograms**

Ruiz; U.; Volke-Sepúlveda; K.; Provenzano; C.; Pagliusi; P.; Cipparrone; G.  
*Proceedings of SPIE, the International Society for Optical Engineering* 8429 (2012): 84290N.  
<https://dx.doi.org/10.1117/12.922011>

**34)-Optical Manipulation of Liquid Crystal Droplets Through Holographic Polarized Tweezers: Magnus Effect**

Hernández; J.; Provenzano; C.; Pagliusi; P.; Cipparrone; G.  
*Molecular crystals and liquid crystals (Phila. Pa. : 2003)* 558 (2012): 72.  
<https://dx.doi.org/10.1080/15421406.2011.653712>

**35)-Liquid Crystal Based Polarization Gratings for Spectro-Polarimetric Applications**

Lepera; E.; Provenzano; C.; Pagliusi; P.; Cipparrone; G.  
*Molecular crystals and liquid crystals (Phila. Pa. : 2003)* 558 (2012): 109.  
<https://dx.doi.org/10.1080/15421406.2011.653716>

**36)-Note: A versatile, stable, high-resolution readout system for RTD and thermistor sensors**

Ambrosetti R.; Matteoli E.; Ricci D.  
*Review of scientific instruments* 83 (2012): 096101.  
<https://dx.doi.org/10.1063/1.4750142>

**37)-Influence of the composition of aqueous dimethylsulfoxide solvent on thermodynamics of complexing between 18-crown-6-ether and D,L-alanine**

Usachevaa T.R.; Kuzminaa I.A.; Sharnina V.A.; Chernova I.V.; Matteoli E.  
*Russian journal of physical chemistry* 86 (2012): 1064–1067.  
<https://dx.doi.org/10.1134/S003602441207031X>

**38)-Excess enthalpies of mixtures of mono-carboxylic acid with dibutylether**

Marongiu B.; Porcedda S.; Falconieri D.; Piras A.; Matteoli E.; Lepori L.  
*Journal of thermal analysis and calorimetry (Online)* 108 (2012): 777–782.  
<https://dx.doi.org/10.1007/s10973-011-2034-3>

**39)-Thermodynamic characteristics of alanine-18-crown-6 ether complexes in binary water-acetone solvents**

Usachevaa T.R.; Kuz'minaa I.A.; Sharnina V.A.; Chernova I.V.; Matteoli E.  
*Russian journal of physical chemistry* 86 (2012): 36–39.  
<https://dx.doi.org/10.1134/S003602441112034X>

- 40)-Bioactive glass/polymer composite scaffolds mimicking bone tissue**  
Piergiorgio Gentile; Monica Mattioli-Belmonte; Valeria Chiono; Concetta Ferretti; Francesco Baino; Chiara Tonda-Turo; Chiara Vitale-Brovarone; Iva Pashkuleva; Rui L. Reis; Gianluca Ciardelli  
SUBJECT bioactive glass; chitosan; composite; gelatin; periosteal precursor cells  
*Journal of biomedical materials research. Part A (Online) 100A (2012): 2654–2667.*  
<https://dx.doi.org/10.1002/jbm.a.34205>
- 41)-Electro-switchable polydimethylsiloxane-based optofluidics**  
De Sio, L; Romito, M; Giocondo, M; Vasdekis, AE; De Luca, A; Umeton, C  
*Lab on a chip (Print) 12 (2012): 3760.*  
<https://dx.doi.org/10.1039/c2lc40668c>
- 42)-Gain functionalized core-shell nanoparticles: the way to selectively compensate absorptive losses**  
De Luca, A; Ferrie, M; Ravaine, S; La Deda, M; Infusino, M; Rashed, AR; Veltri, A; Aradian, A; Scaramuzza, N; Strangi, G  
*Journal of materials chemistry (Print) 22 (2012): 8846.*  
<https://dx.doi.org/10.1039/c2jm30341h>
- 43)-Periodic and aperiodic liquid crystal-polymer composite structures realized via spatial light modulator direct holography**  
Infusino; M.; De Luca; A.; Barna; V.; Caputo; R.; Umeton; C.  
*Optics express 20 (2012): 23138.*  
<http://www.cnr.it/prodotto/i/192503>  
  
info:cnr-pdr/source/autori:Infusino, M., De Luca, A., Barna, V., Caputo, R., Umeton, C./titolo:Periodic and aperiodic liquid crystal-polymer composite structures realized via spatial light modulator direct holography/
- 44)-Soft-matter structures: From switchable diffraction gratings to active plasmonics**  
De Sio; L.; Veltri; A.; Caputo; R.; De Luca; A.; Strangi; G.; Bartolino; R.; Umeton; C.P.  
*La Rivista del nuovo cimento della Società italiana di fisica (Testo stamp.) 35 (2012): 575.*  
<https://dx.doi.org/10.1393/ncr/i2012-10082-9>
- 45)-AFM Studies on Curcumin Based Zn(II) Complex Molecules for Applications as Anticancer Agents**  
Tone, CM; Pirillo S; Pucci D; De Santo MP; Barberi RC; Ciuchi, F  
*Molecular crystals and liquid crystals (Phila. Pa. : 2003) 558 (2012): 194–203.*  
<https://dx.doi.org/10.1080/15421406.2011.654188>
- 46)-Light propagation, discrete diffraction, discrete solitons and discrete beats in periodic and non-periodic POLICRYPS structures**  
Pezzi; L.; De Luca; A.; Veltri; A.; Umeton; C.

*Nonlinear optics, quantum optics* 43 (2012): 269.

<http://www.cnr.it/prodotto/i/192511>

info:cnr-pdr/source/autori:Pezzi, L., De Luca, A., Veltri, A., Umeton, C./titolo:Light propagation, discrete diffraction, discrete solitons and discrete beats in periodic and non-periodic POLICRYPS structures/

**47)-Dielectric Characterisation of an Orthoconic Antiferroelectric Liquid Crystal Mixture**

Marino L; Bruno E; De Santo MP; Ciuchi F; Marino S; Scaramuzza, N

*Molecular crystals and liquid crystals (Phila. Pa. : 2003)* 558 (2012): 120–126.

<https://dx.doi.org/10.1080/15421406.2011.653717>

**48)-Dynamical homeotropic and planar alignments of chromonic liquid crystals**

Tone CM; De Santo MP; Buonomenna MG; Golemme G, Ciuchi F

*Soft matter (Print)* 8 (2012): 8478–8482.

<https://dx.doi.org/10.1039/c2sm26021b>

**49)-General Purpose Soft Template for Photonic Applications: From All-Optical to Electrical Reconfigurability**

De Sio, L; Ferjani, S; Strangi, G; Umeton, C; Bartolino, R

*Molecular crystals and liquid crystals (Phila. Pa. : 2003)* 553 (2012): 147.

<https://dx.doi.org/10.1080/15421406.2011.609459>

**50)-Fractional Diffusion Equation and the Electrical Impedance: Experimental Evidence in Liquid-Crystalline Cells**

Ciuchi F; Mazzulla A; Scaramuzza N; Lenzi EK; Evangelista LR

*Journal of physical chemistry. C* 116 (2012): 8773–8777.

<https://dx.doi.org/10.1021/jp211097m>

**51)-Light Sensitive Liquid Crystals for All-Optical Photonic Devices**

De Sio, L; Tedesco, A; Serak, S; Tabiryan, N; Umeton, C

*Molecular crystals and liquid crystals (Phila. Pa. : 2003)* 560 (2012): 143.

<https://dx.doi.org/10.1080/15421406.2012.663194>

**52)-Nanostructured Poly(styrene-b-butadiene-b-styrene) (SBS) Membranes for the Separation of Nitrogen from Natural Gas**

Buonomenna MG; Golemme G; Tone CM; De Santo MP; Ciuchi F; Perrotta, E

*Advanced functional materials (Print)* 22 (2012): 1759–1767.

<https://dx.doi.org/10.1002/adfm.201101904>

**53)-Plasmon Resonance Tunability of Gold Nanoparticles Embedded in a Confined Cholesteric Liquid Crystal Host**

Caputo, R.; De Sio, L.; Cataldi, U.; Umeton, C



*Molecular crystals and liquid crystals (Phila. Pa. : 2003) 559 (2012): 194.*  
<https://dx.doi.org/10.1080/15421406.2012.658709>

**54)-Fabrication and Characterization of Stretchable PDMS Structures Doped With Au Nanoparticles**

Cataldi, U.; Cerminara, P.; De Sio, L.; Caputo, R; Umeton, CP  
*Molecular crystals and liquid crystals (Phila. Pa. : 2003) 558 (2012): 22.*  
<https://dx.doi.org/10.1080/15421406.2011.653675>

**55)-Electrically Controlled 1D and 2D Cholesteric Liquid Crystal Gratings**

Hamdi R; Petriashvili G; De Santo MP; Lombardo G; Barberi, R  
*Molecular crystals and liquid crystals (Phila. Pa. : 2003) 553 (2012): 97–102.*  
<https://dx.doi.org/10.1080/15421406.2011.609436>

**56)-Molecular Orientation of E7 Liquid Crystal in POLICRYPS Holographic Gratings: A Micro-Raman Spectroscopic Analysis**

Fasanella, Angela; Castriota, Marco; Cazzanelli, Enzo; De Sio, L; Caputo, R; Umeton, C  
*Molecular crystals and liquid crystals (Phila. Pa. : 2003) 558 (2012): 46.*  
<https://dx.doi.org/10.1080/15421406.2011.653678>

**57)-Biomechanics of the Anterior Human Corneal Tissue Investigated with Atomic Force Microscopy**

Lombardo M; Lombardo G; Carbone G; De Santo MP; Barberi R; Serrao, SSUBJECTCornea BiomechanicsSUBJECTAFMSUBJECTindentationSUBJECTvisco-elastic response  
*Investigative ophthalmology & visual science 53 (2012): 1050–1057.*  
<https://dx.doi.org/10.1167/iovs.11-8720>

**58)-All-Optical and Thermal Tuning of a Bragg Grating Based on Photosensitive Composite Structures Containing Liquid Crystals**

Gilardi, G.; Asquini, R.; d'Alessandro,; Beccherelli, R; De Sio, L; Umeton, C  
*Molecular crystals and liquid crystals (Phila. Pa. : 2003) 558 (2012): 64.*  
<https://dx.doi.org/10.1080/15421406.2011.653680>

**59)-and Characterization of POLICRYPS-like Structures Including Metallic Subentities**

Caputo, R.; De Sio, L.; Dintinger, J.; Sellame, H; Scharf, T; Umeton, CP  
*Molecular crystals and liquid crystals (Phila. Pa. : 2003) 553 (2012): 111.*  
<https://dx.doi.org/10.1080/15421406.2011.609445>

**60)-Non-Debye relaxation in the dielectric response of nematic liquid crystals: Surface and memory effects in the adsorption-desorption process of ionic impurities**

J. L. de Paula; P. A. Santoro; R. S. Zola; E. K. Lenzi; L. R. Evangelista; F. Ciuchi; A. Mazzulla; N. Scaramuzza

*Physical review. E, Statistical, nonlinear, and soft matter physics (Print)* 86 (2012): 051705.  
<https://dx.doi.org/10.1103/PhysRevE.86.051705>

**61)-Photo-sensitive liquid crystals for optically controlled diffraction gratings**

De Sio, Luciano; Ricciardi, Loredana; Serak, Svetlana; La Deda, M; Tabiryan, N; Umeton, C  
*Journal of materials chemistry (Print)* 22 (2012): 6669.  
<https://dx.doi.org/10.1039/c2jm16077c>

**62)-Biaxial surface order dynamics in calamitic nematics**

Lombardo G; Amoddeo, A; Hamdi R, Ayeb H; Barberi, R  
*The European physical journal. E, Soft matter (Print)* 35 (2012).  
<https://dx.doi.org/10.1140/epje/i2012-12032-y>

**63)-Thermal and electrical laser tuning in liquid crystal blue phase I**

Mazzulla A; Petriashvili G; Matranga M; De Santo MP; Barberi R  
*Soft matter (Print)* 8 (2012): 4882.  
<https://dx.doi.org/10.1039/C2SM25197C>

**64)-Femtosecond laser photodisruptive effects on the posterior human corneal stroma investigated with atomic force microscopy**

Serrao S; Lombardo M; De Santo MP; Lombardo G; Lomoriello DS, Ducoli P; Stirpe, M  
*European Journal of Ophthalmology (Testo stamp.)* 22 (2012).  
<https://dx.doi.org/10.5301/ejo.5000113>

**65)-Surface and bulk contributions to nematic order reconstruction**

Amoddeo A; Barberi R; Lombardo G  
*Physical review. E, Statistical, nonlinear, and soft matter physics (Print)* 85 (2012).  
<https://dx.doi.org/10.1103/PhysRevE.85.061705>

**66)-Variations in image optical quality of the eye and the sampling limit of resolution of the cone mosaic with axial length in young adults**

Lombardo M; Serrao S; Ducoli P; Lombardo G  
SUBJECTTottica  
adattivaSUBJECTretinaSUBJECTconesSUBJECTmetric  
*Journal of cataract and refractive surgery* 38 (2012): 1147–1155.  
<https://dx.doi.org/10.1016/j.jcrs.2012.02.033>

**67)-Histological validation of near-infrared reflectance multispectral imaging technique for caries detection and quantification**

Salsone S; Taylor A; Gomez J; Pretty I; Ellwood R; Dickinson M; Lombardo G; Zakian, C  
*Journal of biomedical optics* 17 (2012).  
<https://dx.doi.org/10.1117/1.JBO.17.7.076009>

**68)-Optimal parameters to improve the interface quality of the flap bed in femtosecond laser-assisted laser in situ keratomileusis**

Serrao S; Buratto L; Lombardo G; De Santo MP; Ducoli P; Lombardo, M

*Journal of cataract and refractive surgery* 38 (2012).

<https://dx.doi.org/10.1016/j.jcrs.2012.05.021>

**69)-Insight into the supramolecular organization of columnar assemblies with phototunable chirality**

Vera F; Serrano JL; De Santo MP; Barberi R; Ros MB; Sierra, T

*Journal of materials chemistry (Print)* 22 (2012).

<https://dx.doi.org/10.1039/c2jm33331g>

**70)-ON THE OCCURRENCE OF THE THIRD-ORDER SCALING IN HIGH LATITUDE SOLAR WIND**

Marino R.; Sorriso-Valvo L; D'Amicis R.; Carbone V.; Bruno R.; Veltri P.

*The Astrophysical journal* 750 (2012).

<https://dx.doi.org/10.1088/0004-637X/750/1/41>

**71)-EIDOSCOPE: particle acceleration at plasma boundaries**

Vaivads A.; Andersson G., Bale, S.D. , Cully C.M., De Keyser J., Fujimoto M., Grahn S., Haaland S., Ji H., Khotyaintsev Y.V., Lazarian A., Lavraud B., Mann I.R., Nakamura R., Nakamura T.K.M., Narita Y., Retinò A., Sahraoui F., Schekochihin A., Schwartz S.J., Shinohara I., Sorriso-Valvo L

*Experimental astronomy (Print)* 33 (2012): 491–527.

<https://dx.doi.org/10.1007/s10686-011-9233-6>

**72)-Direct Nanomechanical Measurement of an Anchoring Transition in a Nematic Liquid Crystal Subject to Hybrid Anchoring Conditions**

Ruths M; Zappone B

*Langmuir* 28 (2012).

<https://dx.doi.org/10.1021/la204746d>

**73)-Linear Self-Assembly of Nanoparticles Within Liquid Crystal Defect Arrays**

Coursault D; Grand J; Zappone B; Ayeb H; Levi G; Felidj N; Lacaze, E

*Advanced materials (Weinh., Print)* 24 (2012).

<https://dx.doi.org/10.1002/adma.201103791>

**74)-Hyaluronic acid-collagen network interactions during the dynamic compression and recovery of cartilage**

Greene GW; Zappone B; Banquy X; Lee DW; Soderman O; Topgaard D; Israelachvili, JN

*Soft matter (Print)* 8 (2012).

<https://dx.doi.org/10.1039/c2sm26330k>

**75)-Periodic lattices of frustrated focal conic defect domains in smectic liquid crystal films**

Zappone B; Meyer C; Bruno L; Lacaze, E

*Soft matter (Print)* 8 (2012).

<https://dx.doi.org/10.1039/c2sm07207f>

**76)-Surface chemical functionalisation of epoxy photoresist-based microcantilevers with organic-coated TiO<sub>2</sub> nanocrystals**

Ingrosso C 1; Sardella E 2; Keller SS 3; Striccoli M 1; Agostiano A 1; Boisen A 3; Curri ML  
1SUBJECTIRON-OXIDE NANOCRYSTALS; SU-8 CANTILEVERS; FABRICATION;  
PROBES

*Micro & nano letters* 7 (2012): 337–342.

<https://dx.doi.org/10.1049/mnl.2011.0673>

**77)-A first-principles theoretical approach to heterogeneous nanocatalysis**

Negreiros F. R.; Aprà E.; Barcaro G.; Sementa L.; Vajda S.; Fortunelli A.

*Nanoscale (Print)* 4 (2012): 1208–1219.

<https://dx.doi.org/10.1039/c1nr11051a>

**78)-Work Function of Oxide Ultrathin Films on the Ag(100) Surface**

Sementa L.; Barcaro G.; Negreiros F. R.; Thomas I. O.; Netzer F. P.; Ferrari A. M.; Fortunelli A.

*Journal of chemical theory and computation* 8 (2012): 629–638.

<https://dx.doi.org/10.1021/ct200861f>

**79)-Scanning tunneling microscopy imaging of NiO(100)(1x1) islands embedded in Ag(100)**

Steurer W.; Surnev S.; Fortunelli A.; Netzer F.P.

*Surface science* 606 (2012): 803–807.

<https://dx.doi.org/10.1016/j.susc.2012.01.012>

**80)-Theoretical study of AuCu nanoalloys adsorbed on MgO(001)**

Cerbelaud M.; Barcaro G.; Fortunelli A.; Ferrando R.

*Surface science* 606 (2012): 938–944.

<https://dx.doi.org/10.1016/j.susc.2012.02.010>

**81)-AuN clusters (N=1-6) supported on MgO(100) surfaces: the role of exact exchange and dispersion interactions on adhesion energies**

Paz-Borbon L. O.; Barcaro G.; Fortunelli A.; Levchenko S. V.

*Physical review. B, Condensed matter and materials physics* 85 (2012): 155409.

<https://dx.doi.org/10.1103/PhysRevB.85.155409>

**82)-Ordered arrays of size-selected oxide nanoparticles**

Gragnaniello L.; Ma T.; Barcaro G.; Sementa L.; Negreiros F. R.; Fortunelli A.; Surnev S.; Netzer F. P.

*Physical review letters (Print)* 108 (2012): 195507.

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

**83)-Building Principles and Structural Motifs in TiO<sub>x</sub> Ultrathin Films on a (111) Substrate**

Barcaro G.; Cavaliere E.; Artiglia L.; Sementa L.; Gavioli L.; Granozzi G.; Fortunelli A.

*Journal of physical chemistry. C* 116 (2012): 13302–13306.

<https://dx.doi.org/10.1021/jp303730j>

**84)-Growth of carbon clusters on the Ni(111) surface**

Barcaro G.; Zhu B.; Hou M.; Fortunelli A.

*Computational materials science* 63 (2012): 303–311.

<https://dx.doi.org/10.1016/j.commatsci.2012.06.032>

**85)-CO oxidation by subnanometer Ag<sub>x</sub>Au<sub>3-x</sub> supported clusters via DFT simulations**

Negreiros F. R.; Sementa L.; Barcaro G.; Vajda S.; Aprà E.; Fortunelli A.

*ACS catalysis* 2 (2012): 1860–1864.

<https://dx.doi.org/10.1021/cs300275v>

**86)-Spin coupling and magnetic field effects on the finite-size free energy and its non-extensivity for 1-D Ising model with nearest and nextnearest neighbor interactions in nanosystems**

Taherkhani F.; Akbarzadeh H.; Abroshan H.; Fortunelli A.

*Phase transitions* 85 (2012): 577–591.

<https://dx.doi.org/10.1080/01411594.2011.629364>

**87)-Dependence of self-diffusion coefficient, surface energy, on size, temperature, and Debye temperature on size for aluminum nanoclusters**

Taherkhani F.; Akbarzadeh H.; Abroshan H.; Fortunelli A.

*Fluid phase equilibria* 335 (2012): 26–31.

<https://dx.doi.org/10.1016/j.fluid.2012.08.011>

**88)-Kinetics of chemical ordering in a Ag-Pt nanoalloy particle via first-principles simulations**

Negreiros F. R.; Taherkhani F.; Parsafar G.; Caro A.; Fortunelli A.

*The Journal of chemical physics* 137 (2012): 194302.

<https://dx.doi.org/10.1063/1.4759507>

**89)-Adsorption-induced restructuring and early stages of CNT growth on Ni nanoparticles**

Wang Y.; Barcaro G.; Negreiros F. R.; Visart de Bocarm'e T.; Moors M.; Kruse N.; Hou M.; Fortunelli A.

*Chemistry - A European Journal* 18 (2012).

<https://dx.doi.org/10.1002/chem.201201331>

**90)-The fate of branched and linear isomers in the rhodium-catalyzed hydroformylation of 3,4,4-trimethylpent-1-ene**

Giuliano Alagona; Caterina Ghio

*Theoretical Chemistry accounts (Print)* 131 (2012): 1142.

<https://dx.doi.org/10.1007/s00214-012-1142-x>

**91)-High linear regioselectivity in the rhodium-catalyzed hydro(deuterio)formylation of 3,4,4-trimethylpent-1-ene: the role of beta-hydride elimination**

Raffaello Lazzaroni; Roberta Settambolo; Giuliano Alagona; Caterina Ghio

*Journal of molecular catalysis. A, Chemical (Print)* 356 (2012): 1–13.

<https://dx.doi.org/10.1016/j.molcata.2011.12.021>

**92)-The influence of water-ethanol mixture on the thermodynamics of complex formation between 18-crown-6 ether and L-phenylalanine**

Usacheva T.R.; Sharnin V.A.; Chernov I.V.; Matteoli E.; Terekhova I.V.; Kumeev R.S.

*Chemical physics letters (Print)* 543 (2012): 155–158.

<https://dx.doi.org/10.1016/j.cplett.2012.06.054>

**93)-Granulocyte-macrophage colony-stimulating factor as an autocrine survival-growth factor in human gliomas**

Revoltella, R. P.; Menicagli, M.; Campani, D.

*Cytokine (Phila. Pa., Print)* 57 (2012): 347–359.

<https://dx.doi.org/10.1016/j.cyto.2011.11.016>

**94)-Enhancement of Exciton Dissociation Efficiency in Bulk Heterojunction Solar Cells by Using an Intrinsic Photoconductor Component**

Pandey, UK; Termine, R; Ionescu, A; Godbert, N; De Santo, MP; Ghedini, M; Golemme, A

*Molecular crystals and liquid crystal (Online : Phila. Pa. : 2003)* 558 (2012): 148–159.

<https://dx.doi.org/10.1080/15421406.2011.654183>

**95)-A linear conjugated core for functional columnar liquid crystals**

Perez, A; Serrano, JL; Sierra, T; Ballesteros, A; de Saa, D; Termine, R; Pandey, UK; Golemme, A

*New journal of chemistry (Online)* 36 (2012): 830–842.

<https://dx.doi.org/10.1039/c2nj20950k>

**96)-Anthocyanins and betalains as light-harvesting pigments for dye-sensitized solar cells**

Giuseppe Calogero; Jun-Ho Yumb; Alessandro Sinopoli; Gaetano Di Marco; Michael Gra'tzel; Mohammad Khaja NazeeruddinSUBJECTDye-sensitized solar cells; Natural dyes; Anthocyanins; Betalains; Solar energy; Titanium oxide

*Solar energy (Print)* 86 (2012): 1563–1575.

<http://www.cnr.it/prodotto/i/194368>

info:cnr-pdr/source/autori:Giuseppe Calogero, Jun-Ho Yumb, Alessandro Sinopoli, Gaetano Di Marco, Michael Graätzel, Mohammad Khaja Nazeeruddin/titolo:Anthocyanins and betalains as light-harvesting pigments for dye-sensitized solar cells/

**97)-Thin-Film Photovoltaics 2011**

Leonardo Palmisano and Gaetano DiMarco

*International Journal of Photoenergy (Online)* (2012).

<https://dx.doi.org/10.1155/2012/419715>

**98)-POSS-tetraalkylammonium salts: A new class of ionic liquids**

Cardiano; P.; Lazzara; G.; Manickam; S.; Mineo; P.; Milioto; S.; Lo Schiavo; S.

*European journal of inorganic chemistry (Print)* (2012): 5668–5676.

<https://dx.doi.org/10.1002/ejic.201200874>

**99)-Supramolecular Polymer Networks Based on Calix[5]arene Tethered Poly(p-phenyleneethynylene)**

Pappalardo; A.; Ballistreri; F.P.; Destri; G.L.; Mineo; P.G.; Tomaselli; G.A.; Toscano; R.M.; Trusso Sfrassetto; G.

*Macromolecules (Print)* 45 (2012): 7549–7556.

<https://dx.doi.org/10.1021/ma3015239>

**100)-Properties of uncharged water-soluble tetra(?-methoxypolyethyleneoxy) phthalocyanine free base: Viable switching of the optical response by means of H<sub>3</sub>O<sup>+</sup> ions**

Mineo; P.; Lupo; F.; Fragalà; I.; Scamporrino; E.; Gulino; A.

*Journal of luminescence* 132 (2012): 409–413.

<https://dx.doi.org/10.1016/j.jlumin.2011.08.048>

**101)-The effect of hard segment molecular architecture on the physico-chemical properties in polyurethanes: the example of 4, 4'-diisocyanatodiphenylmethane and toluene diisocyanate**

A. Bartolotta; P. Calandra

*Global journal of physical chemistry (Print)* 3 (2012): 12–21.

<http://www.cnr.it/prodotto/i/194451>

info:cnr-pdr/source/autori:A. Bartolotta, P. Calandra/titolo:The effect of hard segment molecular architecture on the physico-chemical properties in polyurethanes: the example of 4, 4'-diisocyanatodiphenylmethane and toluene diisocyanate/

**102)-Dielectric investigations on a bent-core liquid crystal**

Lucia Marino; Andrei Th. Ionescu; Salvatore Marino; Nicola Scaramuzza

*Journal of applied physics* 112 (2012).

<https://dx.doi.org/10.1063/1.4767915>

**103)-Growth of fractal aggregates during template directed SAPO-34 zeolite formation**

Lucio Bonaccorsi; Pietro Calandra; Heinz Amenitsch; Edoardo Proverbio; Domenico Lombardo

*Microporous and mesoporous materials (Print) XXX (2012).*

<http://www.cnr.it/prodotto/i/194511>

info:cnr-pdr/source/autori:Lucio Bonaccorsi, Pietro Calandra, Heinz Amenitsch, Edoardo Proverbio, Domenico Lombardo,/titolo:Growth of fractal aggregates during template directed SAPO-34 zeolite formation/

**104)-Modeling particle scattering structure factor for branched bio-inspired polymers in solution: A Small Angle X-ray scattering study**

Lucio Bonaccorsi; Pietro Calandra; Edoardo Proverbio; Domenico Lombardo

*Journal of Quantitative Spectroscopy & Radiative Transfer 113 (2012): 2536–2541.*

<http://www.cnr.it/prodotto/i/194517>

info:cnr-pdr/source/autori:Lucio Bonaccorsi, Pietro Calandra, Edoardo Proverbio, Domenico Lombardo/titolo:Modeling particle scattering structure factor for branched bio-inspired polymers in solution: A Small Angle X-ray scattering study/

**105)-Raman and IR spectroscopy of manganese superoxide dismutase, a pathology biomarker**

David; C.; D'Andrea; C.; Lancelot; E.; Bochterle; J.; Guillot; N.; Fazio; B.; Maragò; O.M.; Sutton; A.; Charnaux; N.; Neubrech; F.; Pucci; A.; Gucciardi; P.G.; De La Chapelle; M.L.

*Vibrational spectroscopy (Print) 62 (2012): 50–58.*

<http://www.cnr.it/prodotto/i/194548>

info:cnr-pdr/source/autori:David, C., D'Andrea, C., Lancelot, E., Bochterle, J., Guillot, N., Fazio, B., Maragò, O.M., Sutton, A., Charnaux, N., Neubrech, F., Pucci, A., Gucciardi, P.G., De La Chapelle, M.L./titolo:Raman and IR spectroscopy of manganese superoxide dismutase, a pathology biomarker/

**106)-Optical trapping of nanotubes with cylindrical vector beams**

Donato; M.G.; Vasi; S.; Sayed; R.; Jones; P.H.; Bonaccorso; F.; Ferrari; A.C.; Gucciardi; P.G.; Maragò; O.M.

*Optics letters (Online) 37 (2012): 3381–3383.*

<http://www.cnr.it/prodotto/i/194555>

info:cnr-pdr/source/autori:Donato, M.G., Vasi, S., Sayed, R., Jones, P.H., Bonaccorso, F., Ferrari, A.C., Gucciardi, P.G., Maragò, O.M./titolo:Optical trapping of nanotubes with cylindrical vector beams/

**107)-Tuning the structural and optical properties of gold/silver nano-alloys prepared by laser ablation in liquids for optical limiting, ultra-sensitive spectroscopy, and optical trapping**

Messina; E.; D'Urso; L.; Fazio; E.; Satriano; C.; Donato; M.G.; D'Andrea; C.; Maragò; O.M.; Gucciardi; P.G.; Compagnini; G.; Neri; F.



*Journal of Quantitative Spectroscopy & Radiative Transfer* 113 (2012): 2490–2498.

<http://www.cnr.it/prodotto/i/194561>

info:cnr-pdr/source/autori:Messina, E., D'Urso, L., Fazio, E., Satriano, C., Donato, M.G., D'Andrea, C., Maragò, O.M., Gucciardi, P.G., Compagnini, G., Neri, F./titolo:Tuning the structural and optical properties of gold/silver nano-alloys prepared by laser ablation in liquids for optical limiting, ultra-sensitive spectroscopy, and optical trapping/

**108)-Modeling particle scattering structure factor for branched bio-polymers in solution: A X-ray scattering study**

Pietro Calandra; Mikhail A. Kiselev; Domenico Lombardo

*Atti della Accademia Peloritana dei Pericolanti. Classe di Scienze Fisiche, Matematiche e Naturali (Online)* 89 (2012): P020-1–P020-5.

<http://www.cnr.it/prodotto/i/194562>

info:cnr-pdr/source/autori:Pietro Calandra, Mikhail A. Kiselev, Domenico Lombardo/titolo:Modeling particle scattering structure factor for branched bio-polymers in solution: A X-ray scattering study/

**109)-Elastic and anelastic properties of densified vitreous B2O3: Relaxations and anharmonicity**

Giovanni Carini Jr.; Giuseppe Carini; Gaspare Tripodo; Gaetano Di Marco; Edmondo GilioliSUBJECT61.43.FsSUBJECT62.40.+iSUBJECT62.65.+k

*Physical review. B, Condensed matter and materials physics (Online)* 85 (2012): 094201-1.

<https://dx.doi.org/10.1103/PhysRevB.85.094201>

**110)-Quantum confinement and electroluminescence in ultrathin silicon nanowires fabricated by a maskless etching technique**

A Irrera; P Artoni; F Iacona; E F Pecora; G Franzò; M Galli; B Fazio; S Boninelli; F Priolo  
*Nanotechnology (Bristol, Online)* 23 (2012): 075204–075210.

<https://dx.doi.org/10.1088/0957-4484/23/7/075204>

**111)-An alternative dielectric model for low and high frequencies: A non-equilibrium thermodynamic approach**

Farsaci Francesco; Rogolino PatriziaSUBJECTDielectric modelSUBJECTrelaxation phenomenaSUBJECTinternal variablesSUBJECTnon-equilibrium

*Journal of non-equilibrium thermodynamics (Internet)* 37 (2012): 27–41.

<https://dx.doi.org/10.1515/jnet.2011.024>

**112)-An alternative dielectric model for low and high frequencies:A non-equilibrium thermodynamic approach**

Farsaci Francesco; Rogolino Patrizia

*Journal of non-equilibrium thermodynamics (Internet)* 37 (2012): 27–41.

<https://dx.doi.org/10.1515/jnet.2011.024>

**113)-ON EVALUATION OF ELECTRIC CONDUCTIVITY BY MEAN OF A THERMODYNAMICAL MODEL FOR DIELECTRIC RELAXATION PHENOMENA. AN APPLICATION TO LIVER TISSUE.**

VINCENZO CIANCIO AND FRANCESCO FARSACI

*Atti della Accademia Peloritana dei Pericolanti. Classe di Scienze Fisiche, Matematiche e Naturali (Online)* 90 (2012): 1–10.

<http://www.cnr.it/prodotto/i/194850>

info:cnr-pdr/source/autori:VINCENZO CIANCIO AND FRANCESCO FARSACI/titolo:ON EVALUATION OF ELECTRIC CONDUCTIVITY BY MEAN OF A THERMODYNAMICAL MODEL FOR DIELECTRIC RELAXATION PHENOMENA. AN APPLICATION TO LIVER TISSUE./

**114)-Spontaneous self-assembly of water-soluble porphyrins having poly(ethylene glycol) as branches: Dependence of aggregate properties from the building block architecture**

Villari; V.; Mineo; P.; Scamporrino; E.; Micali; N.

*Chemical physics (Print)* 409 (2012): 23–31.

<https://dx.doi.org/10.1016/j.chemphys.2012.09.022>

**115)-POLICRYPS Visible Curing for Spatial Light Modulator Based Holography**

M. Infusino; A. Ferraro; A. De Luca; R. Caputo; C. Umeton

*Journal of the Optical Society of America. B, Optical physics* 29 (2012): 3170.

<https://dx.doi.org/10.1364/JOSAB.29.003170>

**116)-The dynamical crossover phenomenon in bulk water, confined water and protein hydration water**

Mallamace F.; Corsaro C.; Baglioni P.; Fratini E.; Chen S.H. SUBJECT Bulk water SUBJECT Confined water SUBJECT Density relaxation SUBJECT Dynamic property SUBJECT Dynamical crossover

*Journal of physics. Condensed matter (Online)* 24 (2012): Article number 064103.

<https://dx.doi.org/10.1088/0953-8984/24/6/064103>

**117)-The dynamic crossover in water does not require bulk water**

Turton D.A.; Corsaro C.; Martin D.F.; Mallamace F.; Wynne K.

*Physical chemistry chemical physics (Online)* 14 (2012): 8067–8073.

<https://dx.doi.org/10.1039/c2cp40703e>

**118)-Transport of self-propelling bacteria in micro-channel flow**

Costanzo, A.; Di Leonardo, R.; Ruocco, G.; Angelani, L.

*Journal of physics. Condensed matter (Print)* 24 (2012): 065101.

<http://www.cnr.it/prodotto/i/196026>

info:cnr-pdr/source/autori:Costanzo, A.; Di Leonardo, R.; Ruocco, G.; Angelani, L./titolo:Transport of self-propelling bacteria in micro-channel flow/

**119)-Probability distributions for the run-and-tumble bacterial dynamics: An analogy to the Lorentz model**

Martens K.; Angelani L.; Di Leonardo R.; Bocquet L.

*The European physical journal. E, Soft matter (Print)* 35 (2012): 84.

<http://www.cnr.it/prodotto/i/196031>

info:cnr-pdr/source/autori:Martens K. ; Angelani L.;Di Leonardo R.;Bocquet L./titolo:Probability distributions for the run-and-tumble bacterial dynamics: An analogy to the Lorentz model/

**120)-Collective Predation and Escape Strategies**

Angelani L.

*Physical review letters (Print)* 109 (2012): 118104.

<http://www.cnr.it/prodotto/i/196036>

info:cnr-pdr/source/autori:Angelani L./titolo:Collective Predation and Escape Strategies/

**121)-Isotopic effect on the aging dynamics of a charged colloidal system**

Tudisca V.; Ricci M.A.; Angelini R.; Ruzicka B.SUBJECTAging behaviorSUBJECTAging dynamicsSUBJECTColloidal gelsSUBJECTColloidal systemSUBJECTDynamical behaviorsSUBJECTExperimental techniquesSUBJECTInteraction potentialsSUBJECTIsotopic effectsSUBJECTIsotopic substitutionSUBJECTLaponite suspensionsSUBJECTMaster curveSUBJECTStretching parametersSUBJECTWater molecule  
*RSC advances* 2 (2012): 11111.

<https://dx.doi.org/10.1039/c2ra21486e>

**122)-A Scalable Algorithm to Explore the Gibbs Energy Landscape of Genome-Scale Metabolic Networks**

De Martino D.; Figliuzzi M.; De Martino A.; Marinari E.

*PLoS computational biology* 8 (2012).

<http://www.cnr.it/prodotto/i/196041>

info:cnr-pdr/source/autori:De Martino D.; Figliuzzi M.; De Martino A.; Marinari E./titolo:A Scalable Algorithm to Explore the Gibbs Energy Landscape of Genome-Scale Metabolic Networks/

**123)-Reaction Networks as Systems for Resource Allocation: A Variational Principle for Their Non-Equilibrium Steady States**

De Martino A.; De Martino D.; Mulet R.; Uguzzoni G.

*PloS one* 7 (2012).

<http://www.cnr.it/prodotto/i/196044>

info:cnr-pdr/source/autori:De Martino A.; De Martino D.; Mulet R.; Uguzzoni G./titolo:Reaction Networks as Systems for Resource Allocation: A Variational Principle for Their Non-Equilibrium Steady States/

**124)-Von Neumann's growth model: Statistical mechanics and biological applications**

De Martino A.; Marinari E.; Romualdi A.

*The European physical journal. Special topics* 212 (2012): 45.

<http://www.cnr.it/prodotto/i/196046>

info:cnr-pdr/source/autori:De Martino A.; Marinari E.; Romualdi A./titolo:Von Neumann's growth model: Statistical mechanics and biological applications/

**125)-A multi-mode fiber probe for holographic micromanipulation and microscopy**

Bianchi, S (2); Di Leonardo, R (1)

*Lab on a chip (Print)* 12 (2012): 635.

<http://www.cnr.it/prodotto/i/196052>

info:cnr-pdr/source/autori:Bianchi, S (2); Di Leonardo, R (1)/titolo:A multi-mode fiber probe for holographic micromanipulation and microscopy/

**126)-Optical characterization of an individual polymer-shelled microbubble structure via digital holography**

Saglimbeni, F (1,4); Bianchi, S (1); Bolognesi, G (2); Paradossi, G (3); Di Leonardo, R (1,4)

*Soft matter (Print)* 8 (2012): 8822.

<http://www.cnr.it/prodotto/i/196053>

info:cnr-pdr/source/autori:Saglimbeni, F (1,4); Bianchi, S (1); Bolognesi, G (2); Paradossi, G (3); Di Leonardo, R (1,4)/titolo:Optical characterization of an individual polymer-shelled microbubble structure via digital holography/

**127)-Partial Synchronization of Stochastic Oscillators through Hydrodynamic Coupling**

Curran, A (1); Lee, MP (1); Padgett, MJ (1); Cooper, JM (2); Di Leonardo, R (3)

*Physical review letters (Print)* 108 (2012): 240601.

<http://www.cnr.it/prodotto/i/196054>

info:cnr-pdr/source/autori:Curran, A (1); Lee, MP (1); Padgett, MJ (1); Cooper, JM (2); Di Leonardo, R (3)/titolo:Partial Synchronization of Stochastic Oscillators through Hydrodynamic Coupling/

**128)-Hydrodynamic Synchronization of Light Driven Microrotors**

Di Leonardo, R (1); Buzas, A (2); Kelemen, L (2); Vizsnyiczai, G (2); Oroszi, L (2); Ormos, P (2)

*Physical review letters (Print)* 109 (2012): 034104.

<http://www.cnr.it/prodotto/i/196057>

info:cnr-pdr/source/autori:Di Leonardo, R (1); Buzas, A (2); Kelemen, L (2); Vizsnyiczai, G (2); Oroszi, L (2); Ormos, P (2)/titolo:Hydrodynamic Synchronization of Light Driven Microrotors/

**129)-Measurement of the Four-Point Susceptibility of an Out-of-Equilibrium Colloidal Solution of Nanoparticles Using Time-Resolved Light Scattering**

Maggi, C (1); Di Leonardo, R (2); Ruocco, G (3); Dyre, JC (1)

*Physical review letters (Print) 109 (2012): 097401.*

<http://www.cnr.it/prodotto/i/196059>

info:cnr-pdr/source/autori:Maggi, C (1); Di Leonardo, R (2); Ruocco, G (3); Dyre, JC (1)/titolo:Measurement of the Four-Point Susceptibility of an Out-of-Equilibrium Colloidal Solution of Nanoparticles Using Time-Resolved Light Scattering/

**130)-Partial Synchronization of Stochastic Oscillators through Hydrodynamic Coupling**

Curran, A (1); Lee, MP (1); Padgett, MJ (1); Cooper, JM (2); Di Leonardo, R (3)

*Physical review letters (Print) 108 (2012): 240601.*

<http://www.cnr.it/prodotto/i/196061>

info:cnr-pdr/source/autori:Curran, A (1); Lee, MP (1); Padgett, MJ (1); Cooper, JM (2); Di Leonardo, R (3)/titolo:Partial Synchronization of Stochastic Oscillators through Hydrodynamic Coupling/

**131)-Two-step relaxation next to dynamic arrest in mean-field glasses: Spherical and Ising p-spin model**

Ferrari, U (1,2); Leuzzi, L (1,2); Parisi, G (1,2,3); Rizzo, T (1,2)

*Physical review. B, Condensed matter and materials physics 86 (2012): 014204.*

<http://www.cnr.it/prodotto/i/196065>

info:cnr-pdr/source/autori:Ferrari, U (1,2); Leuzzi, L (1,2); Parisi, G (1,2,3); Rizzo, T (1,2)/titolo:Two-step relaxation next to dynamic arrest in mean-field glasses: Spherical and Ising p-spin model/

**132)-Lattice Dynamics of Dense Lithium**

Gorelli, FA (1,2); Elatresh, SF (3); Guillaume, CL (4,5); Marques, M (4,5); Ackland, GJ (4,5); Santoro, M (1,6); Bonev, SA (3,7); Gregoryanz, E (4,5)

*Physical review letters 108 (2012): 055501.*

<http://www.cnr.it/prodotto/i/196071>

info:cnr-pdr/source/autori:Gorelli, FA (1,2); Elatresh, SF (3); Guillaume, CL (4,5); Marques, M (4,5); Ackland, GJ (4,5); Santoro, M (1,6); Bonev, SA (3,7); Gregoryanz, E (4,5)/titolo:Lattice Dynamics of Dense Lithium/

**133)-Thermophilic proteins: insight and perspective from in silico experiments**

Sterpone, F (1); Melchionna, S (2)

*Chemical Society reviews (Print) 41 (2012): 1665.*

<http://www.cnr.it/prodotto/i/196074>

info:cnr-pdr/source/autori:Sterpone, F (1); Melchionna, S (2)/titolo:Thermophilic proteins: insight and perspective from in silico experiments/

**134)-Stabilized lattice Boltzmann-Enskog method for compressible flows and its application to one- and two-component fluids in nanochannels**

Melchionna, S (1); Marconi, UMB (2,3)

*Physical review. E, Statistical, nonlinear, and soft matter physics (Print)* 85 (2012): 036707.

<http://www.cnr.it/prodotto/i/196078>

info:cnr-pdr/source/autori:Melchionna, S (1); Marconi, UMB (2,3)/titolo:Stabilized lattice Boltzmann-Enskog method for compressible flows and its application to one- and two-component fluids in nanochannels/

**135)-Fluctuation-dissipation relation from a FLB-BGK model**

Basagaoglu, H (1); Melchionna, S (2); Succi, S (3); Yakhot, V (4)

*Europhysics letters (Print)* 99 (2012): 64001.

<http://www.cnr.it/prodotto/i/196079>

info:cnr-pdr/source/autori:Basagaoglu, H (1); Melchionna, S (2); Succi, S (3); Yakhot, V (4)/titolo:Fluctuation-dissipation relation from a FLB-BGK model/

**136)-Ab initio determination of coarse-grained interactions in double-stranded DNA**

Hsu, CW (1); Fyta, M (1,2); Lakatos, G (1,3); Melchionna, S (3,4); Kaxiras, E (1,3)

*The Journal of chemical physics* 137 (2012): 105102.

<http://www.cnr.it/prodotto/i/196081>

info:cnr-pdr/source/autori:Hsu, CW (1); Fyta, M (1,2); Lakatos, G (1,3); Melchionna, S (3,4); Kaxiras, E (1,3)/titolo:Ab initio determination of coarse-grained interactions in double-stranded DNA/

**137)-Charge Transport in Nanochannels: A Molecular Theory**

Marconi, UMB (1); Melchionna, S (2)

*Langmuir* 28 (2012): 13727.

<http://www.cnr.it/prodotto/i/196083>

info:cnr-pdr/source/autori:Marconi, UMB (1); Melchionna, S (2)/titolo:Charge Transport in Nanochannels: A Molecular Theory/

**138)-Early stage mineralization in tissue engineering mapped by high resolution X-ray microdiffraction**

Campi, G (2); Ricci, A (2,3); Guagliardi, A (1); Giannini, C (1); Lagomarsino, S (4); Cancedda, R (5,6); Mastrogiacomo, M (5,6); Cedola, A (7)

*Acta biomaterialia* 8 (2012): 3411.

<http://www.cnr.it/prodotto/i/196085>

info:cnr-pdr/source/autori:Campi, G (2); Ricci, A (2,3); Guagliardi, A (1); Giannini, C (1); Lagomarsino, S (4); Cancedda, R (5,6); Mastrogiacomo, M (5,6); Cedola, A (7)/titolo:Early stage mineralization in tissue engineering mapped by high resolution X-ray microdiffraction/

**139)-Angular distribution of field emitted electrons from vertically aligned carbon nanotube arrays**

Iacobucci, S (1); Fratini, M (1); Rizzo, A; Scarinci, F (1); Zhang, Y (2); Mann, M (2); Li, C (2,3); Milne, WI (2,4); El Gomati, MM (5); Lagomarsino, S (6); Stefani, G

*Applied physics letters* 100 (2012): 053116.

<http://www.cnr.it/prodotto/i/196087>

info:cnr-pdr/source/autori:Iacobucci, S (1); Fratini, M (1); Rizzo, A ; Scarinci, F (1); Zhang, Y (2); Mann, M (2); Li, C (2,3); Milne, WI (2,4); El Gomati, MM (5); Lagomarsino, S (6); Stefani, G/titolo:Angular distribution of field emitted electrons from vertically aligned carbon nanotube arrays/

**140)-The Bethe approximation for solving the inverse Ising problem: a comparison with other inference methods**

Ricci-Tersenghi; F (1; 2)

*Journal of statistical mechanics* (2012).

<http://www.cnr.it/prodotto/i/196185>

info:cnr-pdr/source/autori:Ricci-Tersenghi, F (1,2)/titolo:The Bethe approximation for solving the inverse Ising problem: a comparison with other inference methods/

**141)-Reconfigurable computing for Monte Carlo simulations: Results and prospects of the Janus project**

M. Baity-Jesi<sup>1, 2</sup>; R.A. Baños<sup>3, 2</sup>; A. Cruz<sup>3, 2</sup>; L.A. Fernandez<sup>1, 2</sup>; J.M. Gil-Narvion<sup>2</sup>; A. Gordillo-Guerrero<sup>4, 2</sup>; M. Guidetti<sup>2</sup>; D. Iñiguez<sup>5, 2</sup>; A. Maiorano<sup>6, 2</sup>; F. Mantovani<sup>7, a</sup>; E. Marinari<sup>8</sup>; V. Martin-Mayor<sup>1, 2</sup>; J. Monforte-Garcia<sup>3, 2</sup>; A. Muñoz Sudupe<sup>1</sup>; D. Navarro<sup>9</sup>; G. Parisi<sup>8</sup>; M. Pivanti<sup>6</sup>; S. Perez-Gavero<sup>2</sup>; F. Ricci-Tersenghi<sup>8</sup>; J.J. Ruiz-Lorenzo<sup>10, 2</sup>; S.F. Schifano<sup>11</sup>; B. Seoane<sup>1, 2</sup>; A. Tarancon<sup>3, 2</sup>; P. Tellez<sup>3</sup>; R. Tripicciono<sup>7</sup>; D. Yllanes<sup>6, 2</sup>

*The European physical journal. Special topics* 210 (2012): 33.

<http://www.cnr.it/prodotto/i/196186>

info:cnr-pdr/source/autori:M. Baity-Jesi<sup>1,2</sup>, R.A. Baños<sup>3,2</sup>, A. Cruz<sup>3,2</sup>, L.A. Fernandez<sup>1,2</sup>, J.M. Gil-Narvion<sup>2</sup>,

A. Gordillo-Guerrero<sup>4,2</sup>, M. Guidetti<sup>2</sup>, D. Iñiguez<sup>5,2</sup>, A. Maiorano<sup>6,2</sup>, F. Mantovani<sup>7,a</sup>,

E. Marinari<sup>8</sup>, V. Martin-Mayor<sup>1,2</sup>, J. Monforte-Garcia<sup>3,2</sup>, A. Muñoz Sudupe<sup>1</sup>,

D. Navarro<sup>9</sup>, G. Parisi<sup>8</sup>

, M. Pivanti<sup>6</sup>, S. Perez-Gavero<sup>2</sup>, F. Ricci-Tersenghi<sup>8</sup>,

J.J. Ruiz-Lorenzo<sup>10,2</sup>, S.F. Schifano<sup>11</sup>, B. Seoane<sup>1,2</sup>, A. Tarancon<sup>3,2</sup>, P. Tellez<sup>3</sup>,

R. Tripicciono<sup>7</sup>, and D. Yllanes<sup>6,2</sup>/titolo:Reconfigurable computing for Monte Carlo simulations: Results and prospects of the Janus project/

**142)-A numerical study of the overlap probability distribution and its sample-to-sample fluctuations in a mean-field model**

Parisi, G; Ricci-Tersenghi, F

*Philosophical magazine* (2003, Print) 92 (2012): 341.

<http://www.cnr.it/prodotto/i/196187>

info:cnr-pdr/source/autori:Parisi, G; Ricci-Tersenghi, F/titolo:A numerical study of the overlap probability distribution and its sample-to-sample fluctuations in a mean-field model/

**143)-Thermodynamic glass transition in a spin glass without time-reversal symmetry**

Banos, RA (Alvarez Banos, Raquel)3,4; Cruz, A (Cruz, Andres)3,4; Fernandez, LA (Antonio Fernandez, Luis)3,5; Gil-Narvion, JM (Miguel Gil-Narvion, Jose)3; Gordillo-Guerrero, A (Gordillo-Guerrero, Antonio)3,6; Guidetti, M (Guidetti, Marco)3; Iniguez, D (Iniguez, David)3,7; Maiorano, A (Maiorano, Andrea)1,2,3; Marinari, E (Marinari, Enzo)1,2; Martin-Mayor, V (Martin-Mayor, Victor)3,5; Monforte-Garcia, J (Monforte-Garcia, Jorge)3,4; Sudupe, AM (Munoz Sudupe, Antonio)5; Navarro, D (Navarro, Denis)8; Parisi, G (Parisi, Giorgio)1,2; Perez-Gaviro, S (Perez-Gaviro, Sergio)3; Ruiz-Lorenzo, JJ (Jesus Ruiz-Lorenzo, Juan)3,9; Schifano, SF (Fabio Schifano, Sebastiano)10,11; Seoane, B (Seoane, Beatriz)3,5; Tarancon, A (Tarancon, Alfonso)3,4; Tellez, P (Tellez, Pedro)4; Tripiccione, R (Tripiccione, Raffaele)10,11; Yllanes, D (Yllanes, David)3,5

*Proceedings of the National Academy of Sciences of the United States of America* 109 (2012): 6452.

<http://www.cnr.it/prodotto/i/196191>

info:cnr-pdr/source/autori:Banos, RA (Alvarez Banos, Raquel)3,4; Cruz, A (Cruz, Andres)3,4; Fernandez, LA (Antonio Fernandez, Luis)3,5; Gil-Narvion, JM (Miguel Gil-Narvion, Jose)3; Gordillo-Guerrero, A (Gordillo-Guerrero, Antonio)3,6; Guidetti, M (Guidetti, Marco)3; Iniguez, D (Iniguez, David)3,7; Maiorano, A (Maiorano, Andrea)1,2,3; Marinari, E (Marinari, Enzo)1,2; Martin-Mayor, V (Martin-Mayor, Victor)3,5; Monforte-Garcia, J (Monforte-Garcia, Jorge)3,4; Sudupe, AM (Munoz Sudupe, Antonio)5; Navarro, D (Navarro, Denis)8; Parisi, G (Parisi, Giorgio)1,2; Perez-Gaviro, S (Perez-Gaviro, Sergio)3; Ruiz-Lorenzo, JJ (Jesus Ruiz-Lorenzo, Juan)3,9; Schifano, SF (Fabio Schifano, Sebastiano)10,11; Seoane, B (Seoane, Beatriz)3,5; Tarancon, A (Tarancon, Alfonso)3,4; Tellez, P (Tellez, Pedro)4; Tripiccione, R (Tripiccione, Raffaele)10,11; Yllanes, D (Yllanes, David)3,5/titolo:Thermodynamic glass transition in a spin glass without time-reversal symmetry/

**144)-How stereochemistry affects the physicochemical features of gemini surfactant based cationic liposomes**

Aleandri, S (2); Bonicelli, MG (3); Bordi, F (4,5); Casciardi, S (6); Diociaiuti, M (7); Giansanti, L (1,2); Leonelli, F (2); Mancini, G (1,2); Perrone, G (3); Sennato, S (4,5)  
*Soft matter (Print)* 8 (2012): 5904.

<http://www.cnr.it/prodotto/i/196193>

info:cnr-pdr/source/autori:Aleandri, S (2); Bonicelli, MG (3); Bordi, F (4,5); Casciardi, S (6); Diociaiuti, M (7); Giansanti, L (1,2); Leonelli, F (2); Mancini, G (1,2); Perrone, G (3); Sennato, S (4,5)/titolo:How stereochemistry affects the physicochemical features of gemini surfactant based cationic liposomes/

**145)-Aggregation and stability of polyelectrolyte-decorated liposome complexes in water-salt media**

Sennato, S (1,2); Truzzolillo, D (3); Bordi, F (1,2)



*Soft matter (Print) 8 (2012): 9384.*

<http://www.cnr.it/prodotto/i/196194>

info:cnr-pdr/source/autori:Sennato, S (1,2); Truzzolillo, D (3); Bordi, F (1,2)/titolo:Aggregation and stability of polyelectrolyte-decorated liposome complexes in water-salt media/

#### **146)-Double Charge Inversion in Polyethylenimine-Decorated Liposomes**

Sabin, J (1); Vazquez-Vazquez, C (1,2); Prieto, G (1); Bordi, F (3,4); Sarmiento, F (1)  
*Langmuir 28 (2012): 10534.*

<http://www.cnr.it/prodotto/i/196195>

info:cnr-pdr/source/autori:Sabin, J (1); Vazquez-Vazquez, C (1,2); Prieto, G (1); Bordi, F (3,4); Sarmiento, F (1)/titolo:Double Charge Inversion in Polyethylenimine-Decorated Liposomes/

#### **147)-Incorporation of the bacterial reaction centre into dendrimersomes**

Giustini, M (Giustini, Mauro)1,2; Bellinazzo, C (Bellinazzo, Cristina)1,2; Galantini, L (Galantini, Luciano)1,2; Mallardi, A (Mallardi, Antonia)3; Palazzo, G (Palazzo, Gerardo)4; Sennato, S (Sennato, Simona)5,6; Bordi, F (Bordi, Federico)5,6; Rissanen, K (Rissanen, Kari)7

*Colloids and surfaces. A, Physicochemical and engineering aspects (Print) 413 (2012): 38.*

<http://www.cnr.it/prodotto/i/196196>

info:cnr-pdr/source/autori:Giustini, M (Giustini, Mauro)1,2; Bellinazzo, C (Bellinazzo, Cristina)1,2; Galantini, L (Galantini, Luciano)1,2; Mallardi, A (Mallardi, Antonia)3; Palazzo, G (Palazzo, Gerardo)4; Sennato, S (Sennato, Simona)5,6; Bordi, F (Bordi, Federico)5,6; Rissanen, K (Rissanen, Kari)7/titolo:Incorporation of the bacterial reaction centre into dendrimersomes/

#### **148)-Role of water in the ageing mechanism of paper**

Lepore, A (1,2); Baccaro, S (3); Casieri, C (4,5); Cemmi, A (3); De Luca, F (1,2)  
*Open chemical physics letters 531 (2012): 206.*

<http://www.cnr.it/prodotto/i/196197>

info:cnr-pdr/source/autori:Lepore, A (1,2); Baccaro, S (3); Casieri, C (4,5); Cemmi, A (3); De Luca, F (1,2)/titolo:Role of water in the ageing mechanism of paper/

#### **149)-Radiowave dielectric investigation of water confined in channels of carbon nanotubes**

Cametti, C; De Luca, F; Parmentier, A

*The Journal of chemical physics 137 (2012): 094908.*

<http://www.cnr.it/prodotto/i/196198>

info:cnr-pdr/source/autori:Cametti, C; De Luca, F ; Parmentier, A/titolo:Radiowave dielectric investigation of water confined in channels of carbon nanotubes/

#### **150)-Effects of time and temperature of firing on Fe-rich ceramics studied by Mossbauer spectroscopy and two-dimensional H-1-nuclear magnetic resonance relaxometry**

Casieri C.; De Luca F.; Nodari L.; Russo U.; Terenzi C.; Tudisca V. SUBJECT2D NMR RELAXOMETRY SUBJECT ANCIENT CERAMICS SUBJECT POROUS-MEDIA SUBJECT CLAY SUBJECT RELAXATION SUBJECT POTTERY SUBJECT DIFFUSION

*Journal of applied physics* 112 (2012).

<https://dx.doi.org/10.1063/1.4759316>

**151)-Flexibility windows and compression of monoclinic and orthorhombic silicalites**

Asel Sartbaeva; Julien Haines; Olivier Cambon; Mario Santoro; Federico Gorelli; Claire Levelut; Gaston Garbarino; Stephen A. Wells

*Physical review. B, Condensed matter and materials physics* 85 (2012): 064109.

<http://www.cnr.it/prodotto/i/196319>

info:cnr-pdr/source/autori:Asel Sartbaeva, Julien Haines, Olivier Cambon, Mario Santoro, Federico Gorelli, Claire Levelut, Gaston Garbarino, and Stephen A. Wells/titolo:Flexibility windows and compression of monoclinic and orthorhombic silicalites/

**152)-Following states in temperature in the spherical s plus p-spin glass model**

Sun; YF Crisanti; A Krzakala; F Leuzzi; L Zdeborova; L SUBJECT disordered systems SUBJECT spin glasses SUBJECT slow dynamics SUBJECT aging

*Journal of statistical mechanics* (2012): P07002.

<https://dx.doi.org/10.1088/1742-5468/2012/07/P07002>

**153)-Shaken Granular Lasers**

Viola Folli (1,2); Andrea Puglisi (1,2); Luca Leuzzi (2,3); Claudio Conti (1,2) SUBJECT granular materials SUBJECT mesoscopic particles SUBJECT shaken granular matter SUBJECT disordered photonics

*Physical review letters* 108 (2012): 248002.

<https://dx.doi.org/10.1103/PhysRevLett.108.248002>

**154)-Equalizing disordered ferroelectrics for diffraction cancellation**

Parravicini; J Agranat; AJ Conti; C DelRe; E

*Applied physics letters* 101 (2012): 111104.

<http://www.cnr.it/prodotto/i/196413>

info:cnr-pdr/source/autori:Parravicini, J

Agranat, AJ

Conti, C

DelRe, E/titolo:Equalizing disordered ferroelectrics for diffraction cancellation/

**155)-Measurement of scaling laws for shock waves in thermal nonlocal media**

N. Ghofraniha (1); L. Santamaria Amato (2); V. Folli (2); S. Trillo (3); E. DelRe (4,1); C. Conti (4,2) SUBJECT shock waves SUBJECT thermal nonlinearity

*Optics letters* 37 (2012): 2325–2337.

<https://dx.doi.org/10.1364/OL.37.002325>

**156)-Programming scale-free optics in disordered ferroelectrics**

Jacopo Parravicini (1,2); Claudio Conti (1,3); Aharon J. Agranat (4); Eugenio DelRe (1,2)SUBJECTscale-free opticsSUBJECTdisordered ferroelectrics

*Optics letters* 37 (2012): 2355–2357.

<https://dx.doi.org/10.1364/OL.37.002355>

**157)-New Interferometric Technique To Evaluate the Electric Charge of Gas Bubbles in Liquids**

Corti, M 1,2; Bonomo, M 1; Raudino, A 3SUBJECTAIR/WATER INTERFACESUBJECTAQUEOUS-SOLUTIONSSUBJECTWATERSUBJECTFOAM

*Langmuir* 28 (2012): 6060–6066.

<https://dx.doi.org/10.1021/la3003542>

**158)-Photon bunching in chaotic fields with uni-dimensional probability density**

Degiorgio; V

*Europhysics letters (Print)* 98 (2012): Article Number 44007.

<https://dx.doi.org/10.1209/0295-5075/98/44007>

**159)-Critical slowing down exponents in structural glasses: Random orthogonal and related models**

Caltagirone, F (Caltagirone, F.)1,2; Ferrari, U (Ferrari, U.)1,2; Leuzzi, L (Leuzzi, L.)1,2; Parisi, G (Parisi, G.)1,2,3; Rizzo, T (Rizzo, T.)1,2SUBJECTCritical DynamicsSUBJECTGlassy SystemsSUBJECTMode Coupling Theory

*Physical review. B, Condensed matter and materials physics* 86 (2012): Article Number: 064204.

<https://dx.doi.org/10.1103/PhysRevB.86.064204>

**160)-A numerical study of the overlap probability distribution and its sample-to-sample fluctuations in a mean-field model**

Parisi, G (Parisi, Giorgio)1; Ricci-Tersenghi, F (Ricci-Tersenghi, Federico)

*Philosophical magazine (2003, Print)* 92 (2012): 341–352.

<https://dx.doi.org/10.1080/14786435.2011.634843>

**161)-The dynamical crossover phenomenon in bulk water, confined water and protein hydration water**

Mallamace, F (Mallamace, Francesco)1,2,3; Corsaro, C (Corsaro, Carmelo)2,3,4; Baglioni, P (Baglioni, Piero)5,6; Fratini, E (Fratini, Emiliano)5,6; Chen, SH (Chen, Sow-Hsin)1SUBJECTINELASTIC NEUTRON-SCATTERINGSUBJECTNUCLEAR-MAGNETIC-RESONANCESUBJECTSTOKES-EINSTEIN RELATIONSUBJECTSUPERCOOLED WATER

*Journal of physics. Condensed matter (Print)* 24 (2012): Article Number: 064103.

<https://dx.doi.org/10.1088/0953-8984/24/6/064103>

**162)-The dynamic crossover in water does not require bulk water**

Turton, DA (Turton, David A.)<sup>1,2,3</sup>; Corsaro, C (Corsaro, Carmelo)<sup>4</sup>; Martin, DF (Martin, David F.)<sup>3</sup>; Mallamace, F (Mallamace, Francesco)<sup>4</sup>; Wynne, K (Wynne, Klaas)<sup>1,2</sup>SUBJECTSTOKES-EINSTEIN RELATIONSUBJECTPROTEIN HYDRATION WATERSUBJECTLOW-FREQUENCY SPECTRUM

*PCCP. Physical chemistry chemical physics (Print) 14 (2012): 8067–8073.*

<https://dx.doi.org/10.1039/c2cp40703e>

**163)-Rejuvenation in scale-free optics and enhanced diffraction cancellation life-time**

J. Parravicini (1,2); C. Conti (1,3); A. J. Agranat (4); E. DelRe (1,2)SUBJECTBeam diffractionSUBJECTDipolar glassSUBJECTLife-timesSUBJECTPhotorefractive nonlinearitySUBJECTScale-free

*Optics express 20 (2012): 27382–27387.*

<https://dx.doi.org/10.1364/OE.20.027382>

**164)-Equalizing disordered ferroelectrics for diffraction cancellation**

Jacopo Parravicini (1,2); Aharon J. Agranat (3); Claudio Conti (1,4); Eugenio DelRe (1,2)SUBJECTSCALE-FREE OPTICSSUBJECTBEHAVIOR

*Applied physics letters 101 (2012): 111104.*

<https://dx.doi.org/10.1063/1.4751847>

**165)-Shock Waves in Disordered Media**

N. Ghofraniha (1); S. Gentilini (2); V. Folli (2); E. DelRe (3,1); C. Conti (3,2)SUBJECTNONLINEAR OPTICSSUBJECTPULSES

*Physical review letters (Print) 109 (2012): 243902.*

<https://dx.doi.org/10.1103/PhysRevLett.109.243902>

**166)-Shock wave far-field in ordered and disordered nonlocal media**

S. Gentilini (1); N. Ghofraniha (2); E. DelRe (2,3); C. Conti (1,3)SUBJECTDisordered mediaSUBJECTFar fieldSUBJECTNonlocalSUBJECTThreshold power

*Optics express 20 (2012): 27369–27375.*

<https://dx.doi.org/10.1364/OE.20.027369>

**167)-Beam Instabilities in the Scale-Free Regime**

Viola Folli (1,2); Eugenio Del Re (2); Claudio Conti (1,2,3)SUBJECTMODULATIONAL INSTABILITYSUBJECTOPTICAL

DIFFRACTIONSUBJECTSOLITONSSUBJECTMEDIA

*Physical review letters (Print) 108 (2012): 033901.*

<https://dx.doi.org/10.1103/PhysRevLett.108.033901>

**168)-Thermodynamic scaling of alpha-relaxation time and viscosity stems from the Johari-Goldstein beta-relaxation or the primitive relaxation of the coupling model**

K. L. Ngai; J. Habasaki; D. Prevosto; S. Capaccioli; M. PaluchSUBJECTrelaxation dynamicsSUBJECTscalingSUBJECTsecondary relaxation

*The Journal of chemical physics* 137 (2012): 034511.

<https://dx.doi.org/10.1063/1.4736547>

**169)-Mechanism of fast surface self-diffusion of an organic glass**

S. Capaccioli; K. L. Ngai; M. Paluch; D. PrevostoSUBJECTsurfaceSUBJECTglassSUBJECTrelaxation

*Physical review. E, Statistical physics, plasmas, fluids, and related interdisciplinary topics* 86 (2012): 051503.

<https://dx.doi.org/10.1103/PhysRevE.86.051503>

**170)-Many-Body Nature of Relaxation Processes in Glass-Forming Systems**

S. Capaccioli; M. Paluch; D. Prevosto; Li-Min Wang; K. L. NgaiSUBJECTglass transitionSUBJECTpressureSUBJECTsecondary relaxation

*The journal of physical chemistry letters* 3 (2012): 735–743.

<https://dx.doi.org/10.1021/jz201634p>

**171)-Evidence of Coexistence of Change of Caged Dynamics at T<sub>g</sub> and the Dynamic Transition at T<sub>d</sub> in Solvated Proteins**

S. Capaccioli; K.L. Ngai; S. Ancherbak; A. PaciaroniSUBJECTneutron scatteringSUBJECTprotein dynamicsSUBJECTdynamic transition

*The journal of physical chemistry. B* 116 (2012): 1745–1757.

<https://dx.doi.org/10.1021/jp2057892>

**172)-Bioresorbable glass effect on the physico-chemical properties of bilayered scaffolds for osteochondral regeneration**

Piergiorgio Gentile; Valeria Chiono; Chiara Tonda-Turo; Clara Mattu; Francesco Baino; Chiara Vitale-Brovarone; Gianluca CiardelliSUBJECTComposite scaffoldsSUBJECTBilayeredSUBJECTBioresorbable glassSUBJECTGelatinSUBJECTOsteochondral bone

*Materials letters (Gen. ed.)* 89 (2012): 74–76.

<https://dx.doi.org/10.1016/j.matlet.2012.08.023>

**173)-Noise policy development in Italy and the EU**

Licitra, G; Ascari, E

*The Journal of the Acoustical Society of America (Online)* 131 (2012): 3505–3505.

<http://www.cnr.it/prodotto/i/197326>

info:cnr-pdr/source/autori:Licitra, G; Ascari, E/titolo:Noise policy development in Italy and the EU/

**174)-Collagen for bone tissue regeneration**

Ana Marina Ferreira; Piergiorgio Gentile; Valeria Chiono; Gianluca CiardelliSUBJECTBoneSUBJECTCollagenSUBJECTHydrogelSUBJECTScaffoldSUBJECT Tissue engineering

*Acta biomaterialia* 8 (2012): 3191–3200.

<https://dx.doi.org/10.1016/j.actbio.2012.06.014>

**175)-Tranquility analysis by soundwalks in Pisa's green areas**

Licitra, G; Chiari, C; Menichini, I; Ascari, E

*The Journal of the Acoustical Society of America (Online)* 131 (2012): 3473–3473.

<http://www.cnr.it/prodotto/i/197329>

info:cnr-pdr/source/autori:Licitra, G; Chiari, C; Menichini, I; Ascari, E/titolo:Tranquility analysis by soundwalks in Pisa's green areas/

**176)-Biomimetic coating on bioactive glass-derived scaffolds mimicking bone tissue**

D. Bellucci; A. Sola; P. Gentile; G. Ciardelli; V. CannilloSUBJECTbone tissue engineeringSUBJECTscaffoldSUBJECTgenipinSUBJECTgelatinSUBJECTbioactive glass

*Journal of biomedical materials research. Part A (Online)* 100A (2012): 3259–3266.

<https://dx.doi.org/10.1002/jbm.a.34271>

**177)-L'IMPATTO DEGLI AEROPORTI SULLA SALUTE DELLA POPOLAZIONE RESIDENTE: LO STUDIO SERA ITALIA**

Ancona, C; Mataloni, F; Ancona, L; Bucci, S; Compagnucci, P; Davoli, M; Cadum, E; Chiusolo, M; Macario, A; Ottino, M; Signorile, L; Pisani, S; Camerino, D; Minniti, C; Vigotti, M; Cestari, L; Palazzi, B; Panarotto, C; Sepulcri, D; Simonato, L; Ascari, E; Licitra, G; Simonetti, D; Caricchia, A; Cattani, G; Di Menno, A; Gaeta, A; Fabozzi, T; Briotti, V; Sozzi, R; Forastiere, F

*Epidemiologia e prevenzione* 36 (2012): 43–44.

<http://www.cnr.it/prodotto/i/197339>

info:cnr-pdr/source/autori:Ancona, C; Mataloni, F; Ancona, L; Bucci, S; Compagnucci, P; Davoli, M; Cadum, E; Chiusolo, M; Macario, A; Ottino, M; Signorile, L; Pisani, S; Camerino, D; Minniti, C; Vigotti, M; Cestari, L; Palazzi, B; Panarotto, C; Sepulcri, D; Simonato, L; Ascari, E; Licitra, G; Simonetti, D; Caricchia, A; Cattani, G; Di Menno, A; Gaeta, A; Fabozzi, T; Briotti, V; Sozzi, R; Forastiere, F/titolo:L'IMPATTO DEGLI AEROPORTI SULLA SALUTE DELLA POPOLAZIONE RESIDENTE: LO STUDIO SERA ITALIA/

**178)-Temperature dependence and aging effects on silicon nanowires photoluminescence**

Artoni Pietro; Irrera Alessia; Iacona Fabio; Pecora Emanuele Francesco; Franzò Giorgia; Priolo Francesco

*Optics express* 20 (2012).

<http://www.cnr.it/prodotto/i/197358>

info:cnr-pdr/source/autori:Artoni Pietro; Irrera Alessia; Iacona Fabio; Pecora Emanuele Francesco; Franzò Giorgia; Priolo Francesco/titolo:Temperature dependence and aging effects on silicon nanowires photoluminescence/

**179)-Evanescent wave optical trapping and transport of micro- and nanoparticles on tapered optical fibers**

Skelton S.E.; Sergides M.; Patel R.; Karczewska E.; Marago' O.M.; Jones P.H.  
*Journal of Quantitative Spectroscopy & Radiative Transfer* 113 (2012): 2512–2520.  
<https://dx.doi.org/10.1016/j.jqsrt.2012.06.005>

**180)-Trapping and deformation of microbubbles in a dual-beam fibre-optic trap**

Skelton S.E.; Sergides M.; Memoli G.; Marago' O.M.; Jones P.H.  
*Journal of optics (Print)* 14 (2012): 075706.  
<https://dx.doi.org/10.1088/2040-8978/14/7/075706>

**181)-Effects of poly(dimethylsiloxane) and inorganic fillers in halogen free flame retardant poly(ethylene-co-vinyl acetate) compound: A chemometric approach**

A. Cardelli; G. Ruggeri; M. Calderisi; O. Lednev; C. Cardelli; E. Tombari  
SUBJECTFlame retardant composite  
SUBJECTMixture design  
SUBJECTPoly(ethylene-co-vinyl acetate)  
SUBJECTPoly(dimethylsiloxane)  
SUBJECTCalcium borate  
*Polymer degradation and stability* 97 (2012): 2536–2544.  
<https://dx.doi.org/10.1016/j.polymdegradstab.2012.02.018>

**182)-Specific Heat and Transformations of Water in 1.4 and 1.8 nm Pore-MCMs**

E. Tombari; G. Salvetti; G.P. Johari  
SUBJECTDIFFERENTIAL SCANNING CALORIMETRY  
SUBJECTSUPERCOOLED CONFINED WATERS  
SUBJECTNEUTRON-SCATTERING  
SUBJECTNANOPORES  
*Journal of physical chemistry. C* 116 (2012): 2702–2709.  
<https://dx.doi.org/10.1021/jp209598x>

**183)-Photoconductive Nile red cyclopalladated metallomesogens**

Ionescu, A; Godbert, N; Crispini, A; Termine, R; Golemme, A; Ghedini, M  
*Journal of materials chemistry (Print)* 22 (2012): 23617–23626.  
<http://www.cnr.it/prodotto/i/198969>

info:cnr-pdr/source/autori:Ionescu, A ; Godbert, N ; Crispini, A ; Termine, R ; Golemme, A ; Ghedini, M/titolo:Photoconductive Nile red cyclopalladated metallomesogens/

**184)-Enhancement of Exciton Dissociation Efficiency in Bulk Heterojunction Solar Cells by Using an Intrinsic Photoconductor Component**

Pandey, UK; Termine, R; Ionescu, A; Godbert, N; De Santo, MP; Ghedini, M; Golemme, A  
*Molecular crystals and liquid crystals science and technology. Section A, Molecular crystals and liquid crystals* 558 (2012): 148–159.  
<http://www.cnr.it/prodotto/i/198992>

info:cnr-pdr/source/autori:Pandey, UK ; Termine, R; Ionescu, A ; Godbert, N ; De Santo, MP ; Ghedini, M ; Golemme, A/titolo:Enhancement of Exciton Dissociation Efficiency in Bulk Heterojunction Solar Cells by Using an Intrinsic Photoconductor Component/

**185)-A linear conjugated core for functional columnar liquid crystals**

Perez, A; Serrano, JL; Sierra, T; Ballesteros, A; de Saa, D; Termine, R; Pandey, UK; Golemme, A

*New journal of chemistry (Online)* 36 (2012): 830–842.

<https://dx.doi.org/10.1039/c2nj20950k>

**186)-Tuning solid state luminescent properties in a hydrogen bonding-directed supramolecular assembly of bis-cyclometalated iridium(III) ethylenediamine complexes**

Talarico, AM; Szerb, EI; Mastropietro, TF; Aiello, I; Crispini, A; Ghedini, M

*Dalton transactions (2003. Online)* 41 (2012): 4919–4926.

<https://dx.doi.org/10.1039/c2dt12108e>

**187)-Role of Fluorine Interactions in the Solid State Structure and Photophysical Properties of 3,5-Disubstituted-2-(2'-pyridyl)pyrrole Pd(II) Complexes**

Mastropietro, TF; Aprea, A; La Deda, M; Aiello, I; Ghedini, M; Crispini, A

*Crystal growth & design* 12 (2012): 2173–2177.

<http://www.cnr.it/prodotto/i/199224>

info:cnr-pdr/source/autori:Mastropietro, TF; Aprea, A ; La Deda, M ; Aiello, I; Ghedini, M; Crispini, A/titolo:Role of Fluorine Interactions in the Solid State Structure and Photophysical Properties of 3,5-Disubstituted-2-(2'-pyridyl)pyrrole Pd(II) Complexes/

**188)-MD.P01.015.007**

Mastropietro, TF; Yadav, YJ; Szerb, EI; Talarico, AM; Ghedini, M; Crispini, A

*Dalton transactions (2003. Print)* 41 (2012): 8899–8907.

<http://www.cnr.it/prodotto/i/199226>

info:cnr-pdr/source/autori:Mastropietro, TF ; Yadav, YJ; Szerb, EI; Talarico, AM; Ghedini, M; Crispini, A/titolo:MD.P01.015.007/

**189)-A facile and ecofriendly functionalization of multiwalled carbon nanotubes by an old mesoionic compound**

Grassi, Giovanni; Scala, Angela; Piperno, Anna; Iannazzo, Daniela; Lanza, Maurizio; Milone, Candida; Pistone, Alessandro; Galvagno, SignorinoSUBJECTampholyte; multi walled nanotube; oxazolone; carbon dioxide excretion; covalent bond; cycloaddition; electric conductivity; green chemistry; Raman spectrometry; reaction time

*Chemical communications (Lond., 1996, Online)* 48 (2012): 6836–6838.

<https://dx.doi.org/10.1039/c2cc31884a>

**190)-A free-standing aligned-carbon-nanotube/nanocomposite foil as an efficient counter electrode for dye solar cells**



Malara, Francesco; Manca, Michele; Lanza, Maurizio; Huebner, Christof; Piperopoulos, Elpida; Gigli, Giuseppe

*Energy & environmental science (Print)* 5 (2012): 8377–8383.

<https://dx.doi.org/10.1039/c2ee21569a>

**191)-Coumarin-Conjugated Multiwalled Carbon Nanotubes for Potential Biological Applications: Development and Characterization**

Iannazzo, D.; Piperno, A.; Romeo, G.; Romeo, R.; Ferlazzo, A.; Pistone, A.; Lanza, M.; Milone, C.

*Journal of nanoscience and nanotechnology (Print)* 12 (2012): 5030–5038.

<http://www.cnr.it/prodotto/i/199164>

info:cnr-pdr/source/autori:Iannazzo, D.; Piperno, A.; Romeo, G.; Romeo, R.; Ferlazzo, A.; Pistone, A.; Lanza, M.; Milone, C./titolo:Coumarin-Conjugated Multiwalled Carbon Nanotubes for Potential Biological Applications: Development and Characterization/

**192)-Effect of Fe load on the synthesis of C nanotubes by isobutane decomposition over Na-exchanged montmorillonite-clay catalysts**

Santangelo, S.; Messina, G.; Piperopoulos, E.; Lanza, M.; Faggio, G.; Milone, C.

*Diamond and related materials* 23 (2012): 54–60.

<http://www.cnr.it/prodotto/i/199152>

info:cnr-pdr/source/autori:Santangelo, S.; Messina, G.; Piperopoulos, E.; Lanza, M.; Faggio, G.; Milone, C./titolo:Effect of Fe load on the synthesis of C nanotubes by isobutane decomposition over Na-exchanged montmorillonite-clay catalysts/

**193)-Functionalization of multi-walled carbon nanotubes with coumarin derivatives and their biological evaluation**

Iannazzo, Daniela; Piperno, Anna; Ferlazzo, Angelo; Pistone, Alessandro; Milone, Candida; Lanza, Maurizio; Cimino, Francesco; Speciale, Antonio; Trombetta, Domenico; Saija, Antonina; Galvagno, Signorino

*Organic & biomolecular chemistry* 10 (2012): 1025–1031.

<http://www.cnr.it/prodotto/i/199145>

info:cnr-pdr/source/autori:Iannazzo, Daniela; Piperno, Anna; Ferlazzo, Angelo; Pistone, Alessandro; Milone, Candida; Lanza, Maurizio; Cimino, Francesco; Speciale, Antonio; Trombetta, Domenico; Saija, Antonina; Galvagno, Signorino/titolo:Functionalization of multi-walled carbon nanotubes with coumarin derivatives and their biological evaluation/

**194)-Growth and Analysis of C Nanotubes on Ceramic Polymer-Additives**

Santangelo, S.; Piperopoulos, E.; Lanza, M.; Milone, C.

*Journal of nanoscience and nanotechnology (Print)* 12 (2012): 4786–4797.

<http://www.cnr.it/prodotto/i/199165>

info:cnr-pdr/source/autori:Santangelo, S.; Piperopoulos, E.; Lanza, M.; Milone, C./titolo:Growth and Analysis of C Nanotubes on Ceramic Polymer-Additives/

- 195)-Morphological Modification of MWCNT Functionalized with HNO<sub>3</sub>/H<sub>2</sub>SO<sub>4</sub> Mixtures**  
 Pistone, A.; Ferlazzo, A.; Lanza, M.; Milone, C.; Iannazzo, D.; Piperno, A.; Piperopoulos, E.; Galvagno, S.  
*Journal of nanoscience and nanotechnology (Print) 12 (2012): 5054–5060.*  
<http://www.cnr.it/prodotto/i/199161>  
 info:cnr-pdr/source/autori:Pistone, A.; Ferlazzo, A.; Lanza, M.; Milone, C.; Iannazzo, D.; Piperno, A.; Piperopoulos, E.; Galvagno, S./titolo:Morphological Modification of MWCNT Functionalized with HNO<sub>3</sub>/H<sub>2</sub>SO<sub>4</sub> Mixtures/
- 196)-Optimization of CVD growth of CNT-based hybrids using the Taguchi method**  
 Santangelo, S.; Lanza, M.; Piperopoulos, E.; Galvagno, S.; Milone, C.  
*Materials research bulletin 47 (2012): 595–601.*  
<http://www.cnr.it/prodotto/i/199150>  
 info:cnr-pdr/source/autori:Santangelo, S.; Lanza, M.; Piperopoulos, E.; Galvagno, S.; Milone, C./titolo:Optimization of CVD growth of CNT-based hybrids using the Taguchi method/
- 197)-Optimized CVD Production of CNT-Based Nanohybrids by Taguchi Robust Design**  
 Santangelo, S.; Lanza, M.; Piperopoulos, E.; Milone, C.  
*Journal of nanoscience and nanotechnology (Print) 12 (2012): 2424–2436.*  
<http://www.cnr.it/prodotto/i/199158>  
 info:cnr-pdr/source/autori:Santangelo, S.; Lanza, M.; Piperopoulos, E.; Milone, C./titolo:Optimized CVD Production of CNT-Based Nanohybrids by Taguchi Robust Design/
- 198)-Demonstration of a stable ultrafast laser based on a nonlinear microcavity**  
 Peccianti, M; Pasquazi, A; Park, Y; Little, B E; Chu, S T; Moss, D J; Morandotti, R  
 SUBJECTIntegrated Nonlinear PhotonicsSUBJECTUltrafast LasersSUBJECTFour Wave Mixing  
*Nature communications 3 (2012): art\_n\_765.*  
<https://dx.doi.org/10.1038/ncomms1762>
- 199)-The nature of interstellar dust as revealed by light scattering**  
 C. Cecchi-Pestellini; M.A. Iatì; D. A. Williams  
*Journal of Quantitative Spectroscopy & Radiative Transfer 113 (2012): 2310–2320.*  
<https://dx.doi.org/10.1016/j.jqsrt.2012.02.039>
- 200)-The gamma parameter of the stretched-exponential model is influenced by internal gradients: Validation in phantoms**  
 Marco Palombo (1,2); Andrea Gabrielli (1,3); Silvia De Santis (1,4); Silvia Capuani (1,2)  
 SUBJECTAnomalous Diffusion Imaging; DiffusionSUBJECTInternal gradientsSUBJECTMagnetic susceptibility differencesSUBJECTNMR PGSTESUBJECTPolystyrene micro-beads  
*Journal of magnetic resonance (San Diego, Calif., 1997 : Print) 216 (2012): 28–36.*

<https://dx.doi.org/10.1016/j.jmr.2011.12.023>

**201)-Integrated computational approaches for spectroscopic studies of molecular systems in the gas phase and in solution: pyrimidine as a test case**

Biczysko, Malgorzata; Bloino, Julien; Brancato, Giuseppe; Cacelli, Ivo; Cappelli, Chiara; Ferretti, Alessandro; Lami, Alessandro; Monti, Susanna; Pedone, Alfonso; Prampolini, Giacomo; Puzzarini, Cristina; Santoro, Fabrizio; Trani, Fabio; Villani, Giovanni  
*Theoretical Chemistry accounts (Print) 131 (2012): 1201.*

<https://dx.doi.org/10.1007/s00214-012-1201-3>

**202)-A singular thermodynamically consistent temperature at the origin of the anomalous behavior of liquid water**

Mallamace, F (Mallamace, Francesco)[ 1,2,3,4,5 ]; Corsaro, C (Corsaro, Carmelo)[ 1,2 ]; Stanley, HE (Stanley, H. Eugene)[ 4,5 ]SUBJECTSTOKES-EINSTEIN RELATIONSUBJECTSUPERCOOLED WATERSUBJECTCONFINED WATERSUBJECTHIGH-PRESSURE

*Scientific reports (Nature Publishing Group) 2 (2012): Article Number: 993.*

<https://dx.doi.org/10.1038/srep00993>

**203)-Adaptive Optics Photoreceptor Imaging**

M. Lombardo; G. Lombardo; P. Ducoli; S. SerraoSUBJECTADAPTIVE OPTICSSUBJECTCONES DENSITYSUBJECTRETINA

*Ophthalmology (Rochester Minn.) 119 (2012): 1498–1498.*

<http://www.cnr.it/prodotto/i/212992>

info:cnr-pdr/source/autori:M. Lombardo, G. Lombardo, P. Ducoli, S. Serrao/titolo:Adaptive Optics Photoreceptor Imaging/

**204)-Au nanoparticle arrays produced by Pulsed Laser Deposition for Surface Enhanced Raman Spectroscopy**

N.R. Agarwal; F. Neri; S. Trusso; A. Lucotti; P.M. Ossi

*Applied surface science 258 (2012): 9148–9152.*

<https://dx.doi.org/10.1016/j.apsusc.2011.12.030>

**205)-Self-Assembly of Hydrophobin Protein Rodlets Studied with Atomic Force Spectroscopy in Dynamic Mode**

S. Houmadi+?; Raul D. Rodriguez+§?; S. Longobardi?; P. Giardina?; M. C. Faure+; M. Giocondo ?; E. Lacaze+?

*Langmuir 28 (2012): 2551–2557.*

<https://dx.doi.org/10.1021/la2028093>

**206)-Isolation of Squarebop I bacteriorhodopsin from biomass of coastal salterns**

Lobasso S.(a); Lopalco P.(b); Angelini R.(a); Pollice A.(c); Laera G.(c); Milano F.(d); Agostiano A.(d; e); Corcelli A. (a; d)SUBJECTRetinal proteinsSUBJECTMicrofiltrationSUBJECTHollow fibersSUBJECTHalophilic archaea  
*Protein expression and purification (Print)* 84 (2012): 73–79.  
<https://dx.doi.org/10.1016/j.pep.2012.04.017>

**207)-All-optical and thermal tuning of a Bragg grating based on photosensitive composite structures containing liquid crystals**

Gilardi; G. 1; Asquini; R.1; D'Alessandro; A. 1; Beccherelli; R.2; De Sio; L. 3; Umeton; C.3SUBJECTAll-opticalSUBJECTChannel waveguideSUBJECTFiltering effectsSUBJECTLow PowerSUBJECTOptical signalsSUBJECTopto-optical effectSUBJECTPhotocurable polymersSUBJECTPump lightSUBJECTTemperature variationSUBJECTThermal tuningSUBJECTWaveguide gratingsSUBJECTBorosilicate glassSUBJECTIon exchangeSUBJECTLiquid crystalsSUBJECTOptical waveguidesSUBJECTWaveguide filters  
*Molecular crystals and liquid crystals (Phila. Pa. : 2003)* 558 (2012): 64–71.  
<https://dx.doi.org/10.1080/15421406.2011.653680>

**208)-Viva la differenza**

Massimo Trotta e Luigi R. CeciSUBJECTDivulazione scientifica  
*Sapere (Bari)* 78 (2012): 78–79.  
<http://www.cnr.it/prodotto/i/274103>

info:cnr-pdr/source/autori:Massimo Trotta e Luigi R. Ceci/titolo:Viva la differenza/

**209)-Low-Energy Vibrational Dynamics of Cesium Borate Glasses**

Crupi; C.; D'Angelo; G.; Vasi; C.SUBJECTRAMAN-SCATTERINGSUBJECTTHERMAL-CONDUCTIVITYSUBJECTCRYSTAL-STRUCTURESUBJECTBOSON PEAKSUBJECTHEATSUBJECTTRIBORATESUBJECTB2O3SUBJECTRADIISUBJECTGE  
*The journal of physical chemistry. B* 116 (2012): 6499–6505.  
<https://dx.doi.org/10.1021/jp301230s>

**210)-Colorimetric detection of sugars based on gold nanoparticle formation**

Gerardo Palazzo; Laura Facchini; Antonia Mallardi  
*Sensors and actuators. B, Chemical (Print)* 161 (2012): 366–371.  
<http://www.cnr.it/prodotto/i/237237>

info:cnr-pdr/source/autori:Gerardo Palazzo, Laura Facchini, Antonia Mallardi/titolo:Colorimetric detection of sugars based on gold nanoparticle formation/

**211)-Incorporation of the bacterial reaction centre into dendrimersomes**

Mauro Giustini a; Cristina Bellinazzo a; Luciano Galantini a; Antonia Mallardi b; Gerardo Palazzo c; Simona Sennato d; Federico Bordi d; Kari Rissanen e  
*Colloids and surfaces. A, Physicochemical and engineering aspects (Print)* 413 (2012): 38–43.

<http://www.cnr.it/prodotto/i/238849>

info:cnr-pdr/source/autori:Mauro Giustini a, Cristina Bellinazzo a, Luciano Galantini a, Antonia Mallardi b, Gerardo Palazzo c, Simona Sennato d, Federico Bordi d, Kari Rissanen e/titolo:Incorporation of the bacterial reaction centre into dendrimersomes/

**212)-Polymer-photosynthetic protein multilayer architectures for herbicide optical detection**

Mauro Giustini; Mattia Autullo; Mauro Mennuni; Gerardo Palazzo; Antonia Mallardi  
*Sensors and actuators. B, Chemical (Print)* 163 (2012): 69–75.

<http://www.cnr.it/prodotto/i/237251>

info:cnr-pdr/source/autori:Mauro Giustini, Mattia Autullo, Mauro Mennuni, Gerardo Palazzo, Antonia Mallardi/titolo:Polymer-photosynthetic protein multilayer architectures for herbicide optical detection/

**213)-The Light-Activated Proton Pump Bop I of The Archaeon Haloquadratum walsbyi**

Simona Lobasso; Patrizia Lopalco; Rita Vitale; Matilde Sublimi Saponetti; Giuseppe Capitano; Vincenzo Mangini; Francesco Milano; Massimo Trotta; Angela CorcelliSUBJECTRetinal protein

*Photochemistry and photobiology* 88 (2012): 690–700.

<https://dx.doi.org/10.1111/j.1751-1097.2012.01089.x>

**214)-Changes in morphology, cell wall composition and soluble proteome in Rhodobacter sphaeroides cells exposed to chromate**

Italiano F; Rinalducci S; Agostiano A; Zolla L; De Leo F; Ceci LR; Trotta M  
SUBJECTChromate reduction; Photosynthesis; Rhodobacter sphaeroides; Two-dimensional gel electrophoresis; Atomic force microscopy; Attenuated total reflection-fourier transformed infrared spectroscopy

*BioMetals (Oxf.)* 25 (2012): 939–949.

<https://dx.doi.org/10.1007/s10534-012-9561-7>

**215)-The reaction center is the sensitive target of the mercury (II) ion in intact cells of photosynthetic bacteria**

E. Asztalos; G. Sipka; M. Kis; M. Trotta; P. MarótiSUBJECTBacterial photosynthesis; Intact cells; Reaction center; Antenna; Mercury contamination; Bacteriochlorophyll spectroscopy

*Photosynthesis research (Print)* 112 (2012): 129–140.

<https://dx.doi.org/10.1007/s11120-012-9749-2>

**216)-Oxidoreductase activity of chromatophores and purified cytochrome bc 1 complex from Rhodobacter sphaeroides: a possible role of cardiolipin**

Lucia Catucci; Vincenzo De Leo; Francesco Milano; Livia Giotta; Rita Vitale; Angela Agostiano; Angela CorcelliSUBJECTRhodobacter sphaeroides; Osmotic stress; Cardiolipin; Oxidoreductase activity; Cytochrome bc(1) complex

*Journal of bioenergetics and biomembranes (Dordr., Online)* 44 (2012): 487–493.

<https://dx.doi.org/10.1007/s10863-012-9447-y>

**217)-Un dono dai funghi: le idrofobine**

Massimo Trotta; Luigi R. Ceci e Andrea VentrellaSUBJECTDivulazione scientifica  
*Sapere (Bari) 78 (2012): 78–79.*

<http://www.cnr.it/prodotto/i/274107>

info:cnr-pdr/source/autori:Massimo Trotta, Luigi R. Ceci e Andrea Ventrella/titolo:Un dono dai funghi: le idrofobine/

**218)-Il bisturi molecolare**

Massimo Trotta e Luigi R. CeciSUBJECTDivulazione scientifica  
*Sapere (Bari) 78 (2012): 68–69.*

<http://www.cnr.it/prodotto/i/274108>

info:cnr-pdr/source/autori:Massimo Trotta e Luigi R. Ceci/titolo:Il bisturi molecolare/

**219)-Piccoli grandi demolitori**

Massimo Trotta; Luigi R. Ceci  
*Sapere (Bari) 78 (2012): 110–111.*

<http://www.cnr.it/prodotto/i/274109>

info:cnr-pdr/source/autori:Massimo Trotta, Luigi R. Ceci/titolo:Piccoli grandi demolitori/

**220)-Enhancing the Light Harvesting Capability of a Photosynthetic Reaction Center by a Tailored Molecular Fluorophore**

Francesco Milano; Rocco Roberto Tangorra; Omar Hassan Omar; Roberta Ragni; Alessandra Operamolla; Angela Agostiano; Gianluca M Farinola; Massimo TrottaSUBJECTPhotosynthesisSUBJECTArtificial PhotosynthesisSUBJECTBiohybrid organic-biological systems

*Angewandte Chemie (Int. ed., Print) 51 (2012): 11019–11023.*

<https://dx.doi.org/10.1002/anie.201203404>

**221)-Phospholipid film in electrolyte-gated organic field-effect transistors**

Serafina Cotrone a; Marianna Ambrico b; Henrik Toss c; M. Daniela Angione a; Maria Magliulo a; Antonia Mallardi d; Magnus Berggren c; Gerardo Palazzo a; Gilles Horowitz e; Teresa Ligonzo f; Luisa Torsi aSUBJECTElectrolyte-gated field-effect transistorsSUBJECTPhospholipid layersSUBJECTPoly-3-hexyl-thiophene (P3HT)SUBJECTElectrochemical impedance spectroscopy

*Organic electronics (Print) 13 (2012): 638–644.*

<https://dx.doi.org/10.1016/j.orgel.2012.01.002>

**222)-Phase Transfer of CdS Nanocrystals Mediated by Heptamine beta-Cyclodextrin**

Depalo; Nicoletta; Comparelli; Roberto; Huskens; Jurriaan; Ludden; Manon J. W.; Perl; Andras; Agostiano; Angela; Striccoli; Marinella; Curri; M. LuciaSUBJECTMULTIVALENT

SUPRAMOLECULAR  
INTERACTIONSSUBJECTQUANTUM  
PRINTBOARDSSUBJECTALPHA-  
CYCLODEXTRINSUBJECTWATERSUBJECTGOLDSUBJECTTHERMODYNAMICSSU  
BJECTNANOPARTICLESSUBJECTRECOGNITION

INTERACTIONSSUBJECTHOST-GUEST  
DOTSSUBJECTMOLECULAR

*Langmuir* 28 (2012): 8711–8720.

<https://dx.doi.org/10.1021/la3007469>

**223)-Percolating networks of TiO<sub>2</sub> nanorods and carbon for high power lithium insertion electrodes**

Bresser Dominic; Paillard Elie; Binetti Enrico; Krueger Steffen; Striccoli Marinella; Winter Martin; Passerini Stefano

*Journal of power sources (Print)* 206 (2012): 301–309.

<https://dx.doi.org/10.1016/j.jpowsour.2011.12.051>

**224)-Spectroscopic Study on Imidazolium-Based Ionic Liquids: Effect of Alkyl Chain Length and Anion**

Binetti; Enrico; Panniello; Annamaria; Triggiani; Leonardo; Tommasi; Raffaele; Agostiano; Angela; Curri; Maria Lucia; Striccoli; Marinella

*The journal of physical chemistry. B* 116 (2012): 3512–3518.

<https://dx.doi.org/10.1021/jp300517h>

**225)-Surface chemical functionalization of single walled carbon nanotubes with a bacteriorhodopsin mutant**

Ingresso; C.; Bianco; G.V.; Lopalco; P.; Tamborra; M.; Curri; M.L.; Corcelli; A.; Bruno; G.; Agostiano; A.; Siciliano; P.; Striccoli; M.

*Nanoscale (Print)* 4 (2012): 6434–6441.

<https://dx.doi.org/10.1039/c2nr31999c>

**226)-Spatially balanced topological interaction grants optimal cohesion in flocking models**

Marcelo Camperi (1); Andrea Cavagna (2,3); Irene Giardina (2,3); Giorgio Parisi (3,4,5); Edmondo Silvestri (3,4,6)SUBJECTCOLLECTIVE ANIMAL BEHAVIORSUBJECTSTARFLAG HANDBOOKSUBJECTPHASE-TRANSITIONSUBJECT3 DIMENSIONSSUBJECTMOTION

*Interface focus (Print)* 2 (2012): 715–725.

<https://dx.doi.org/10.1098/rsfs.2012.0026>

**227)-Dynamics and Binding Affinity of Spin-Labeled Stearic Acids in beta-Lactoglobulin: Evidences from EPR Spectroscopy and Molecular Dynamics Simulation**

Guzzi, Rita; Rizzuti, Bruno; Bartucci, Rosa

*The journal of physical chemistry. B* 116 (2012): 11608–11615.

<https://dx.doi.org/10.1021/jp3074392>

- 228)-Nanopatterning of silicon nanowires for enhancing visible photoluminescence**  
Pecora, Emanuele Francesco; Lawrence, Nate; Gregg, Patrick; Trevino, Jacob; Artoni, Pietro; Irrera, Alessia; Priolo, Francesco; Dal Negro, Luca  
*Nanoscale (Print)* 4 (2012): 2863–2866.  
<https://dx.doi.org/10.1039/c2nr30165b>
- 229)-Modeling particle scattering structure factor for branched bio-inspired polymers in solution: A small angle X-ray scattering study**  
Bonaccorsi, Lucio; Calandra, Pietro; Proverbio, Edoardo; Lombardo, Domenico  
SUBJECTX-rays Scattering  
SUBJECTStructure factor analysis  
SUBJECTSpectral lineshape modeling  
*Journal of Quantitative Spectroscopy & Radiative Transfer* 113 (2012): 266–271.  
<https://dx.doi.org/10.1016/j.jqsrt.2012.06.015>
- 230)-Structure of bulk water from Raman measurements of supercooled pure liquid and LiCl solutions**  
Aliotta F; Pochylski M; Ponterio RC; Saija F; Salvato G; Vasi CS  
*Physical review. B, Condensed matter and materials physics* 86 (2012): 134301.  
<https://dx.doi.org/10.1103/PhysRevB.86.134301>
- 231)-Model interactions for liquid systems with tetrahedral local coordination**  
Malescio G; Saija F  
SUBJECTStructure of liquids  
SUBJECTGeneral studies of phase transitions  
SUBJECTComputer simulation of liquid structure  
*La Rivista del nuovo cimento della Società italiana di fisica (Testo stamp.)* 35 (2012): 539–574.  
<https://dx.doi.org/10.1393/ncr/i2012-10081-x>
- 232)-Hexatic phase and water-like anomalies in a two-dimensional fluid of particles with a weakly softened core**  
Prestipino S; Saija F; Giaquinta PV  
*The Journal of chemical physics* 137 (2012): 104503.  
<https://dx.doi.org/10.1063/1.4749260>
- 233)-Fourth virial coefficients of asymmetric nonadditive hard-disk mixtures**  
Saija F.; Santos A.; Yuste S. B.; Lopez de Haro M.  
SUBJECThard-disk; equation of state; virial expansion  
*The Journal of chemical physics* 136 (2012): 184505.  
<https://dx.doi.org/10.1063/1.4712035>
- 234)-Ab Initio Molecular Dynamics Study of Dissociation of Water under an Electric Field**  
Saitta A. M.; Saija F.; Giaquinta P. V.  
SUBJECTautoionization water; ab-initio molecular dynamics



*Physical review letters* 108 (2012): 207801.

<https://dx.doi.org/10.1103/PhysRevLett.108.207801>

**235)-Near Infrared Emission from Monomodal and Bimodal PbS Nanocrystal Superlattices**

Corricelli, M (Corricelli, Michela)1; Enrichi, F (Enrichi, Francesco)3,4; Altamura, D (Altamura, Davide)5; De Caro, L (De Caro, Liberato)5; Giannini, C (Giannini, Cinzia)5; Falqui, A (Falqui, Andrea)6; Agostiano, A (Agostiano, Angela)1,2; Curri, ML (Curri, M. Lucia)1; Striccoli, M (Striccoli, Marinella)1SUBJECTTIME-RESOLVED PHOTOLUMINESCENCE; LIGHT-EMITTING-DIODES; QUANTUM DOTS; SEMICONDUCTOR NANOCRYSTALS; MONODISPERSE NANOCRYSTALS; BINARY SUPERLATTICES; POLYMER; ELECTROLUMINESCENCE; SPECTROSCOPY; PBSE/PBS

*The Journal of Physical Chemistry C* 116 (2012): 6143–6152.

<http://www.cnr.it/prodotto/i/190596>

info:cnr-pdr/source/autori:Corricelli, M (Corricelli, Michela)1; Enrichi, F (Enrichi, Francesco)3,4; Altamura, D (Altamura, Davide)5; De Caro, L (De Caro, Liberato)5; Giannini, C (Giannini, Cinzia)5; Falqui, A (Falqui, Andrea)6; Agostiano, A (Agostiano, Angela)1,2; Curri, ML (Curri, M. Lucia)1; Striccoli, M (Striccoli, Marinella)1/titolo:Near Infrared Emission from Monomodal and Bimodal PbS Nanocrystal Superlattices/

**236)-Polyelectrolyte Multilayers As a Platform for Luminescent Nanocrystal Patterned Assemblies**

Fanizza; Elisabetta; Altomare; Michele; Di Mauro; A. Evelyn; Del Sole; Teresa; Corricelli; Michela; Depalo; Nicoletta; Comparelli; Roberto; Agostiano; A.; Striccoli; Marinella; Curri; M. LuciaSUBJECTQUARTZ-CRYSTAL MICROBALANCESUBJECTCHEMICAL-VAPOR-DEPOSITIONSUBJECTCDSE/ZNS QUANTUM DOTSSUBJECTSEMICONDUCTOR NANOCRYSTALSSUBJECTWATERSUBJECTMONOLAYERSSUBJECTFILMSSUBJECTNANOPARTICLESSUBJECTSILICONSUBJECTADSORPTION

*Langmuir* 28 (2012): 5964–5974.

<https://dx.doi.org/10.1021/la300213n>

**237)-Surface Quality of Femtosecond Dissected Posterior Human Corneal Stroma Investigated With Atomic Force Microscopy**

M. Lombardo; M. P. De Santo; G. Lombardo; D. Schiano Lomoriello; G. Desiderio; P. Ducoli; R. Barberi; S. SerraoSUBJECTatomic force microscopy; surface roughness; pre-cut tissue; DSAEK

*Cornea* 31 (2012): 1369–1375.

<https://dx.doi.org/10.1097/ICO.0b013e31823f774c>

**238)-Bromopyruvate mediates autophagy and cardiolipin degradation to monolysocardiolipin in GL15 glioblastoma cells**

Davidescu, Magdalena; Sciacaluga, Miriam; MacChioni, Lara; Angelini, Roberto; Lopalco, Patrizia; Rambotti, Maria Grazia; Roberti, Rita; Corcelli, Angela; Castigli, Emilia; Corazzi, L. SUBJECT Autophagy SUBJECT Bromopyruvate SUBJECT Cardiolipin SUBJECT Cytochrome c SUBJECT Glioblastoma cells SUBJECT Lyso-cardiolipin  
*Journal of bioenergetics and biomembranes* 44 (2012): 51–60.  
<https://dx.doi.org/10.1007/s10863-012-9411-x>

**239)-Novel ether lipid cardiolipins in archaeal membranes of extreme haloalkaliphiles**

Angelini, Roberto; Corral, Paulina; Lopalco, Patrizia; Ventosa, Antonio; Corcelli, Angela SUBJECT Archaea SUBJECT Cardiolipin SUBJECT Ether lipids SUBJECT Isoprenoid chains SUBJECT MALDI-TOF/MS SUBJECT Natronococcus  
*Biochimica et biophysica acta. Biomembranes* 1818 (2012): 1365–1373.  
<https://dx.doi.org/10.1016/j.bbamem.2012.02.014>

**240)-Morphology, biophysical properties and protein-mediated fusion of archaeosomes**

Sustar, Vid; Zelko, Jasna; Lopalco, Patrizia; Lobasso, Simona; Ota, Ajda; Ulrih, Nataša Poklar; Corcelli, Angela; Kralj-Iglič, Veronika  
*PloS one* 7 (2012).  
<https://dx.doi.org/10.1371/journal.pone.0039401>

**241)-Coupled TLC and MALDI-TOF/MS analyses of the lipid extract of the hyperthermophilic archaeon pyrococcus furiosus**

Lobasso, Simona; Lopalco, Patrizia; Angelini, Roberto; Vitale, Rita; Huber, Harald; Müller, Volker Steffen; Corcelli, Angela  
*Archaea* 2012 (2012).  
<https://dx.doi.org/10.1155/2012/957852>

**242)-Lipidomics of intact mitochondria by MALDI-TOF/MS**

Angelini, Roberto; Vitale, Rita; Patil, Vinay A.; Cocco, Tiziana; Ludwig, Bernd; Greenberg, Miriam L.; Corcelli, Angela SUBJECT 9-Aminoacridine SUBJECT Cardiolipin SUBJECT Heart SUBJECT Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry SUBJECT Paracoccus denitrificans SUBJECT Yeast  
*Journal of lipid research (Print)* 53 (2012): 1417–1425.  
<https://dx.doi.org/10.1194/jlr.D026203>

**243)-SPECIAL SECTION: MICRO AND NANO TECHNOLOGIES FOR PROBE-BASED MICROSCOPY**

Curri, Lucia; Fedder, Gary; Pruitt, Beth L.  
*Micro & nano letters* 7 (2012): 296–296.  
<https://dx.doi.org/10.1049/mnl.2012.0244>

**244)-Meso-Crystallographic Study of a Three-Dimensional Self-Assembled Bimodal Nanocrystal Superlattice**

Altamura, Davide; De Caro, Liberato; Corricelli, Michela; Falqui, Andrea; Striccoli, Marinella; Curri, M. Lucia; Giannini, Cinzia

*Crystal growth & design* 12 (2012): 1970–1976.

<https://dx.doi.org/10.1021/cg201682s>

**245)-Adaptive Optics Photoreceptor Imaging**

Lombardo, Marco; Lombardo, Giuseppe; Ducoli, Pietro; Serrao, Sebastiano SUBJECT cone density SUBJECT cone arrangement SUBJECT Trods SUBJECT Retina SUBJECT adaptive optics

*Ophthalmology (Rochester Minn.)* 119 (2012): 1498–1498.

<http://www.cnr.it/prodotto/i/335591>

info:cnr-pdr/source/autori:Lombardo, Marco; Lombardo, Giuseppe; Ducoli, Pietro; Serrao, Sebastiano/titolo:Adaptive Optics Photoreceptor Imaging/

**246)-Tuning the structural and optical properties of gold/silver nano-alloys prepared by laser ablation in liquids for optical limiting, ultra-sensitive spectroscopy, and optical trapping**

Messina, E.; D'Urso, L.; Fazio, E.; Satriano, C.; Donato, M. G.; D'Andrea, C.; Marago, O. M.; Gucciardi, P. G.; Compagnini, G.; Neri, F. SUBJECT Pulsed laser ablation SUBJECT Metallic nanoparticles SUBJECT Light scattering SUBJECT Optical properties SUBJECT Optical limiting SUBJECT SERSS SUBJECT Raman optical tweezers

*Journal of Quantitative Spectroscopy & Radiative Transfer* 113 (2012): 220–228.

<https://dx.doi.org/10.1016/j.jqsrt.2012.06.023>

**247)-Optical trapping of nanotubes with cylindrical vector beams**

Donato, M. G.; Vasi, S.; Sayed, R.; Jones, P. H.; Bonaccorso, F.; Ferrari, A. C.; Gucciardi, P. G.; Marago, O. M. SUBJECT Optical trapping

*Optics letters* 37 (2012): 3381–3383.

<http://www.cnr.it/prodotto/i/339201>

info:cnr-pdr/source/autori:Donato, M. G.; Vasi, S.; Sayed, R.; Jones, P. H.; Bonaccorso, F.; Ferrari, A. C.; Gucciardi, P. G.; Marago, O. M./titolo:Optical trapping of nanotubes with cylindrical vector beams/

**248)-Nanocrystalline TiO<sub>2</sub> based films onto fibers for photocatalytic degradation of organic dye in aqueous solution**

2) Panniello A.; 2) Curri L.; 4) Diso D.; 4) Licciulli A.; 1) Locaputo V.; 2-3) Agostiano A.; 2) Comparelli R.; 1) Mascolo G. SUBJECT TiO<sub>2</sub> colloidal nanocrystals SUBJECT TiO<sub>2</sub> Degussa P25 SUBJECT Supported nano-sized TiO<sub>2</sub> SUBJECT Degradation of organic dye

*Applied catalysis. B, Environmental (Print)* 121-122 (2012): 190–197.

<https://dx.doi.org/10.1016/j.apcatb.2012.03.019>

**249)-Instrumental and multivariate statistical analyses for the characterisation of the geographical origin of Apulian virgin olive oils**

Longobardi, F.; Ventrella, A.; Casiello, G.; Sacco, D.; Catucci, L.; Agostiano, A.; Kontominas, M. G. SUBJECT Virgin olive oil SUBJECT Oil quality parameters SUBJECT Multivariate statistical analysis SUBJECT Geographical origin  
*Food chemistry* 133 (2012): 579–584.  
<https://dx.doi.org/10.1016/j.foodchem.2012.01.059>

**250)-Light induced transmembrane proton gradient in artificial lipid vesicles reconstituted with photosynthetic reaction centers**

Francesco Milano; Massimo Trotta; Márta Dorogi; Béla Fischer; Livia Giotta; Angela Agostiano; Péter Maróti; László Kálmán; László Nagy SUBJECT Reaction centers SUBJECT Proton motive force SUBJECT Ionophores SUBJECT Pyranine  
*Journal of bioenergetics and biomembranes (Dordr., Online)* 44 (2012): 373–384.  
<https://dx.doi.org/10.1007/s10863-012-9435-2>

**251)-Interfacial electronic effects in functional bilayers integrated into organic field-effect transistors**

Angione, Maria Daniela; Cotrone, Serafina; Magliulo, M (Magliulo, Maria)1; Mallardi, A (Mallardi, Antonia)3; Altamura, D (Altamura, Davide)2; Giannini, C (Giannini, Cinzia)2; Cioffi, N (Cioffi, Nicola)1; Sabbatini, L (Sabbatini, Luigia)1; Fratini, E (Fratini, Emiliano)4,5; Baglioni, P (Baglioni, Piero)4,5; Scamarcio, G (Scamarcio, Gaetano)1,6; Palazzo, G (Palazzo, Gerardo)1; Torsi, L (Torsi, Luisa)1,2 SUBJECT organic electronics | analytical bioassay | electronic biodetection  
*Proceedings of the National Academy of Sciences of the United States of America* 27 (2012): 911–916.  
<https://dx.doi.org/10.1073/pnas.1200549109>

**252)-Aggregation and stability of polyelectrolyte-decorated liposome complexes in water-salt media**

Simona Sennato (a); Domenico Truzzolillo (b); Federico Bordi (a) SUBJECT Adsorption SUBJECT Ionic strength SUBJECT Phase diagrams SUBJECT Polyelectrolytes SUBJECT Van der Waals forces SUBJECT Charge ratio SUBJECT Charge Inhomogeneities  
*Soft matter (Print)* 8 (2012): 9384–9395.  
<https://dx.doi.org/10.1039/c2sm25576f>

**253)-Ordered Arrays of Size-Selected Oxide Nanoparticles**

Graganiello, Luca; Ma, Teng; Barcaro, Giovanni; Sementa, Luca; Negreiros, Fabio R.; Fortunelli, Alessandro; Surnev, Svetlozar; Netzer, Falko P. SUBJECT surface nanopatterning - theoretical modeling  
*Physical review letters (Print)* 108 (2012): 195507-1–195507-5.  
<https://dx.doi.org/10.1103/PhysRevLett.108.195507>

**254)-Near Infrared Emission from Monomodal and Bimodal PbS Nanocrystal Superlattices**

Corricelli, Michela; Enrichi, Francesco; Altamura, Davide; De Caro, Liberato; Giannini, Cinzia; Falqui, Andrea; Agostiano, Angela; Curri, M. Lucia; Striccoli, MarinellaSUBJECTnear infraredSUBJECTPbSSUBJECTnanocrystals  
*Journal of physical chemistry. C 116 (2012): 6143–6152.*  
<https://dx.doi.org/10.1021/jp300509f>

**255)-Emerging dynamics in surfactant-based liquid mixtures: Octanoic acid/bis(2-ethylhexyl) amine systems**

Pietro Calandra; Andrea Mandanici; Vincenzo Turco Liveri; Mikolaj Pochylski; Francesco AliottaSUBJECT..  
*THE JOURNAL OF CHEMICAL PHYSICS (2012).*  
<http://www.cnr.it/prodotto/i/195731>

info:cnr-pdr/source/autori:Pietro Calandra, Andrea Mandanici, Vincenzo Turco Liveri, Mikolaj Pochylski and Francesco Aliotta/titolo:Emerging dynamics in surfactant-based liquid mixtures: Octanoic acid/bis(2-ethylhexyl) amine systems/

**256)-Nanocomposites based on highly luminescent nanocrystals and semiconducting conjugated polymer for inkjet printing**

Binetti E; Ingrosso C; Striccoli M; Cosma P; Agostiano A; Pataky K; Brugger J; Curri M LSUBJECT.  
*Nanotechnology (Bristol, Online) 23 (2012).*  
<http://www.cnr.it/prodotto/i/274023>

info:cnr-pdr/source/autori:Binetti E, Ingrosso C, Striccoli M, Cosma P, Agostiano A, Pataky K, Brugger J, Curri M L/titolo:Nanocomposites based on highly luminescent nanocrystals and semiconducting conjugated polymer for inkjet printing/

**257)-Nanosized optoelectronic devices based on photoactivated proteins**

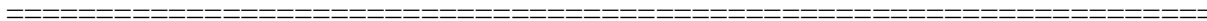
Alice Dimonte; Stefano Frache; Victor Erokhin; Gianluca Piccinini; Danilo Demarchi; Francesco Milano; Giovanni De Micheli; Sandro CarraraSUBJECTActive moleculesSUBJECTBacteriorhodopsin (bR)SUBJECTCharge separationsSUBJECTContact pointsSUBJECTDrop casting  
*Biomacromolecules 13 (2012): 3503–3509.*  
<https://dx.doi.org/10.1021/bm301063m>

**258)-Analysis of the Electronic Circular Dichroism Spectrum of (-)-[9](2,5)Pyridinophane**

Padula; Daniele; Di Bari; Lorenzo; Santoro; Fabrizio; Gerlach; Hans; Rizzo; AntonioSUBJECTelectronic circular dichroismSUBJECTpyridinophaneSUBJECTdensity functional theorySUBJECTvibronic effectsSUBJECTchiralitySUBJECTDENSITY-FUNCTIONAL THEORYSUBJECTAB-INITIO CALCULATIONSSUBJECTRAMAN OPTICAL-ACTIVITYSUBJECTABSORPTION-SPECTRASUBJECTBASIS-SETSSUBJECTABSOLUTE-CONFIGURATIONSUBJECTCHIROPTICAL PROPERTIESSUBJECTVIBRONIC STRUCTURESUBJECTORGANIC-COMPOUNDSSUBJECTLARGE MOLECULES

*Chirality (N.Y., N.Y. Print) 24 (2012): 994–1004.*

<https://dx.doi.org/10.1002/chir.22087>



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

### 1)-Light with no spatial scale: diffraction cancellation, anti-diffraction, scale-free instability and subwavelength beam propagation in dipolar glasses

E.DelRe (1,3); Claudio Conti (1,4); Aharon Agranat (2)

*Nonlinear Photonics - Rogue Waves and Novel Propagation Effects (NW3D)*, pp. paper\_NW3D.1, Colorado Springs, Colorado United States, June 17-21, 2012

<https://dx.doi.org/10.1364/NP.2012.NW3D.1>

info:cnr-pdr/source/autori:E.DelRe (1,3); Claudio Conti (1,4); Aharon Agranat (2)/congresso\_nome:Nonlinear Photonics - Rogue Waves and Novel Propagation Effects (NW3D)/congresso\_luogo:Colorado Springs, Colorado United States/congresso\_data:June 17-21, 2012/anno:2012/pagina\_da:paper\_NW3D.1/pagina\_a:/intervallo\_pagine:paper\_NW3D.1

### 2)-Kovacs and inverse Kovacs effect in the optical scale-free regime

Eugenio Del Re (1,3); Jacopo Parravicini (1); Claudio Conti (1,4); Aharon Agranat (2)

*Nonlinear Photonics - Nonlinearities in Novel Propagation Environments (NTu3D)*, pp. paper\_NTu3D.6, Colorado Springs, Colorado United States, June 17-21, 2012

<https://dx.doi.org/10.1364/NP.2012.NTu3D.6>

info:cnr-pdr/source/autori:Eugenio Del Re (1,3); Jacopo Parravicini (1); Claudio Conti (1,4); Aharon Agranat (2)/congresso\_nome:Nonlinear Photonics - Nonlinearities in Novel Propagation Environments (NTu3D)/congresso\_luogo:Colorado Springs, Colorado United States/congresso\_data:June 17-21, 2012/anno:2012/pagina\_da:paper\_NTu3D.6/pagina\_a:/intervallo\_pagine:paper\_NTu3D.6

### 3)-Theoretical Modelling of Oxide-Supported Metal Nanoclusters and Nanoalloys

A. Fortunelli; R. Ferrando

*Metal Nanoparticles and Nanoalloys*, edited by Roy L. Johnston; J.P. Wilcoxon, pp. 159–211. Amsterdam: Elsevier, 2012

<https://dx.doi.org/10.1016/B978-0-08-096357-0.00003-0>

info:cnr-pdr/source/autori:A. Fortunelli; R. Ferrando/titolo:Theoretical Modelling of Oxide-Supported Metal Nanoclusters and Nanoalloys/titolo\_volume:Metal Nanoparticles and Nanoalloys/curatori\_volume:Roy L. Johnston; J.P. Wilcoxon/editore:

/anno:2012

### 4)-Light scattering enhancement in porphyrin nanocomposites

Villari, V; Fazio, B; Micali, N; De Luca, G; Corsaro, C; Romeo, A; Scolaro, LM; Castriciano, MA; Mazzaglia, A

*Complex Materials in Physics and Biology, edited by Mallamace, F; Stanley H.E., pp. 335–340. Bologna: SIF Edizioni Scientifiche, 2012*

<https://dx.doi.org/10.3254/978-1-61499-071-0-335>

info:cnr-pdr/source/autori:Villari, V; Fazio, B; Micali, N; De Luca, G; Corsaro, C; Romeo, A; Scolaro, LM; Castriciano, MA; Mazzaglia, A/titolo:Light scattering enhancement in porphyrin nanocomposites/titolo\_volume:Complex Materials in Physics and Biology/curatori\_volume:Mallamace, F; Stanley H.E./editore:

/anno:2012

#### **5)-Aggregation of porphyrin-based cyclic supramolecular architectures**

Villari, V; Micali, N; Mineo, P; Scamporrino, E; Corsaro, C

*Complex materials in Physics and Biology, edited by Mallamace, F; Stanley, EH, pp. 361–369. Bologna: SIF Edizioni Scientifiche, 2012*

<urn:isbn:978-1-61499-070-3>

info:cnr-pdr/source/autori:Villari, V; Micali, N; Mineo, P; Scamporrino, E; Corsaro, C/titolo:Aggregation of porphyrin-based cyclic supramolecular architectures/titolo\_volume:Complex materials in Physics and Biology/curatori\_volume:Mallamace, F; Stanley, EH/editore:

/anno:2012

#### **6)-Evidence of a finite screening length of the repulsive potential among copolymer micelles in a room temperature ionic liquid**

Villari, V; Micali, N; Triolo, A/SUBJECTmicelles

*Complex Materials in Physics and Biology, edited by F. Mallamace and H.E. Stanley, pp. 347–360. Bologna: SIF Edizioni Scientifiche, 2012*

<urn:isbn:978-1-61499-070-3>

info:cnr-pdr/source/autori:Villari, V; Micali, N; Triolo, A/titolo:Evidence of a finite screening length of the repulsive potential among copolymer micelles in a room temperature ionic liquid/titolo\_volume:Complex Materials in Physics and Biology/curatori\_volume:F. Mallamace and H.E. Stanley/editore:



/anno:2012

**7)-Space resolved relaxation dynamics of poly(vinyl acetate) close to interfaces with SiOx nanoinclusions**

M. Labardi; D. Prevosto; H.K. Nguyen; M. Lucchesi; E. Fanizza; N. Depalo; M. Striccoli  
*6th International Conference on Times of Polymers (TOP) and Composites, pp. 217, Ischia (NA) Italy, 10/06/2012*

<https://dx.doi.org/10.1063/1.4738448>

info:cnr-pdr/source/autori:M. Labardi, D. Prevosto, H.K. Nguyen, M. Lucchesi, E. Fanizza, N. Depalo, M. Striccoli/congresso\_nome:6th International Conference on Times of Polymers (TOP) and Composites/congresso\_luogo:Ischia (NA) Italy/congresso\_data:10/06/2012/anno:2012/pagina\_da:217/pagina\_a:/intervallo\_pagine:217

**8)-Response Function Theory Computational Approaches to Linear and Non-Linear Optical Spectroscopy**

Rizzo, A; Coriani, S; Ruud, K

*Computational Strategies for Spectroscopy: from Small Molecules to Nano Systems, pp. 77–135. Hoboken: John Wiley & Sons, Inc., 2012*

<http://eu.wiley.com/WileyCDA/WileyTitle/productCd-0470470178.html>

info:cnr-pdr/source/autori:Rizzo, A; Coriani, S; Ruud, K/titolo:Response Function Theory Computational Approaches to Linear and Non-Linear Optical Spectroscopy/titolo\_volume:Computational Strategies for Spectroscopy: from Small Molecules to Nano Systems/curatori\_volume:/editore:

/anno:2012

**9)-Molecular electric, magnetic and optical properties**

Jaszunski, M; Rizzo, A; Ruud, K

*Handbook of Computational Chemistry, pp. 361–441. DORDRECHT: SPRINGER, 2012*

<http://www.springer.com/chemistry/book/978-94-007-0711-5>

info:cnr-pdr/source/autori:Jaszunski, M; Rizzo, A; Ruud, K/titolo:Molecular electric, magnetic and optical properties/titolo\_volume:Handbook of Computational Chemistry/curatori\_volume:/editore:

/anno:2012

#### **10)-Competition Between Crystallization and Vitrification of the Rigid Amorphous Fraction in Poly(3-Hydroxybutyrate)**

Di Lorenzo M.L.; Righetti M.C.; Gazzano M.

*6th International Conference on Times of Polymers (TOP) and Composites, pp. 36–38, Ischia, ITALY, JUN 10-14, 2012*

<https://dx.doi.org/10.1063/1.4738390>

info:cnr-pdr/source/autori:Di Lorenzo M.L., Righetti M.C., Gazzano M./congresso\_nome:6th International Conference on Times of Polymers (TOP) and Composites/congresso\_luogo:Ischia, ITALY/congresso\_data:JUN 10-14, 2012/anno:2012/pagina\_da:36/pagina\_a:38/intervallo\_pagine:36–38

#### **11)-Chiral Self-assembled Solid Microspheres**

CIPPARRONE G; HERNANDEZ RJ; MAZZULLA A

*13th International Symposium on Colloidal and Molecular Electrooptics, ELOPTO 2012, Gent (Belgio), Settembre, 2012*

<http://www.cnr.it/prodotto/i/192567>

info:cnr-pdr/source/autori:CIPPARRONE G, HERNANDEZ RJ, MAZZULLA A/congresso\_nome:13th International Symposium on Colloidal and Molecular Electrooptics, ELOPTO 2012/congresso\_luogo:Gent (Belgio)/congresso\_data:Settembre, 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

#### **12)-Self-organized chiral microspheres**

MAZZULLA A; CIPPARRONE G; HERNANDEZ RJ; BARTOLINO R

*1st Italia-Brazilian Workshop on Liquid Crystals, Erice (TP), 26-30 Agosto 2012*

<http://www.cnr.it/prodotto/i/192571>

info:cnr-pdr/source/autori:MAZZULLA A, CIPPARRONE G, HERNANDEZ RJ, BARTOLINO R/congresso\_nome:1st Italia-Brazilian Workshop on Liquid Crystals/congresso\_luogo:Erice (TP)/congresso\_data:26-30 Agosto 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**13)-Chiral Self-assembled Solid Microspheres: optical control and photonics applications**

CIPPARRONE G; MAZZULLA A; HERNANDEZ RJ; BARTOLINO R

*Istitute for Chemical-Physical Processes - General Meeting 2012, Cetraro (CS), 21-23 Maggio 2012*

<http://www.cnr.it/prodotto/i/192573>

info:cnr-pdr/source/autori:CIPPARRONE G, MAZZULLA A, HERNANDEZ RJ, BARTOLINO R/congresso\_nome:Istitute for Chemical-Physical Processes - General Meeting 2012/congresso\_luogo:Cetraro (CS)/congresso\_data:21-23 Maggio 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**14)-Oxidation of Glycogen by Periodate to Functional "Molecular Nanoparticles**

M. Bertoldo; G. Zampano; S. Bronco; F. Ciardelli

*European Materials Research Society Fall Meeting, Varsavia, September 17-21*

<http://www.cnr.it/prodotto/i/192629>

info:cnr-pdr/source/autori:M. Bertoldo, G. Zampano, S. Bronco, F. Ciardelli/congresso\_nome:European Materials Research Society Fall Meeting/congresso\_luogo:Varsavia/congresso\_data:September 17-21/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**15)-Adsorption and diffusion of adatoms and small clusters on metal oxide surfaces**

Ferrando R.; Fortunelli A.

*edited by Ghenadii Korotcenko. New York: Momentum Press, 2012*

<http://www.cnr.it/prodotto/i/192943>

info:cnr-pdr/source/autori:Ferrando R., Fortunelli A./titolo:Adsorption and diffusion of adatoms and small clusters on metal oxide surfaces/titolo\_volume:/curatori\_volume:Ghenadii Korotcenko/editore:

/anno:2012

**16)-Alignment of chromonic liquid crystals, a difficult task**

F.Ciuchi; C.M.Tone; M.P.De Santo; M.G.Buonomenna; G.Golemme

*Ist Italian-Brazilian workshop on Liquid Crystals ,, E.Majorana Centre for Scientific culture Erice, 26-30 August 2012*

<http://www.cnr.it/prodotto/i/193093>

info:cnr-pdr/source/autori:F.Ciuchi, C.M.Tone, M.P.De Santo, M.G.Buonomenna, G.Golemme/congresso\_nome:Ist Italian-Brazilian workshop on Liquid Crystals

./congresso\_luogo:E.Majorana Centre for Scientific culture Erice/congresso\_data:26-30 August 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**17)-Topological textural transition in nematics**

Hamdi; R.; Barberi; R.; Lombardo G.; Caldera T.; Cosenza F.; Pucci G

*24th International Liquid Crystal Conference 2012, Mainz Germany, August 19th - 24th 2012*

<http://www.cnr.it/prodotto/i/193097>

info:cnr-pdr/source/autori:Hamdi, R., Barberi, R., Lombardo G., Caldera T., Cosenza F., Pucci G/congresso\_nome:24th International Liquid Crystal Conference 2012/congresso\_luogo:Mainz Germany/congresso\_data:August 19th - 24th 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**18)-Periodic lattices of frustrated focal conic defect domains in smectic liquid crystal films**

Zappone B.; Meyer C.; Bruno L.; Lacaze E

*24th International Liquid Crystal Conference 2012, Mainz Germany, 26-30 August 2012*

<http://www.cnr.it/prodotto/i/193104>

info:cnr-pdr/source/autori:Zappone B., Meyer C., Bruno L., Lacaze E/congresso\_nome:24th International Liquid Crystal Conference 2012/congresso\_luogo:Mainz Germany/congresso\_data:26-30 August 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**19)-Nanomechanical measurements of confinement-induced structural transitions in a nematic liquid crystal subject to hybrid anchoring conditions**

Zappone B.; Ruths M.

*24th International Liquid Crystal Conference 2012, Mainz Germany, 26-30 August 2012*

<http://www.cnr.it/prodotto/i/193108>

info:cnr-pdr/source/autori:Zappone B., Ruths M./congresso\_nome:24th International Liquid Crystal Conference 2012/congresso\_luogo:Mainz Germany/congresso\_data:26-30 August 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**20)-A matrix of unidirectionally oriented smectic defects forces linear self-assembly of nanoparticles**

Coursault D.; Grand J.; Donnio; B.; Olesiak-Banska J.; Zappone B.; Félidj N.; Gallani J. L.; Matczyszyn K.; Lacaze; E

*24th International Liquid Crystal Conference 2012, Mainz Germany, 26-30 August 2012*

<http://www.cnr.it/prodotto/i/193112>

info:cnr-pdr/source/autori:Coursault D., Grand J., Donnio, B., Olesiak-Banska J., Zappone B., Félidj N., Gallani J. L., Matczyszyn K., Lacaze, E/congresso\_nome:24th International

Liquid Crystal Conference 2012/congresso\_luogo:Mainz Germany/congresso\_data:26-30 August 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**21)-Variations of the eye's image optical quality and the sampling limit of resolution of the cone mosaic with axial length**

M. Lombardo; S. Serrao; P. Ducoli; G. Lombardo

*ARVO 2012, Ft. Lauderdale, Fl - USA, 6-10 Maggio 2012*

<http://www.cnr.it/prodotto/i/193120>

info:cnr-pdr/source/autori:M. Lombardo, S. Serrao, P. Ducoli, G. Lombardo/congresso\_nome:ARVO 2012/congresso\_luogo:Ft. Lauderdale, Fl - USA/congresso\_data:6-10 Maggio 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**22)-Thin-Film Photovoltaics 2011**

Leonardo Palmisano; Vincenzo Agugliano; Gaetano Di Marco; Mario Pagliaro  
2012

<http://www.cnr.it/prodotto/i/194419>

info:cnr-pdr/source/autori:Leonardo Palmisano, Vincenzo Agugliano, Gaetano Di Marco, Mario Pagliaro/titolo:Thin-Film Photovoltaics 2011/editore:/anno:2012

**23)-Bringing Gain to Metamaterials: a Way to Selectively Compensate Absorptive Losses**

De Luca A

*International Conference On Metamaterials And Dissemination Workshop 2012, Jena (Ger), 2-5 Luglio 2012*

<http://www.cnr.it/prodotto/i/194469>

info:cnr-pdr/source/autori:De Luca A/congresso\_nome:International Conference On Metamaterials And Dissemination Workshop 2012/congresso\_luogo:Jena (Ger)/congresso\_data:2-5 Luglio 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**24)-Porous Nanostructures Formation using Polyamidoamine Dendrimers as Template**

Lucio Bonaccorsi; Pietro Calandra; Edoardo Proverbio; Domenico Lombardo

*Advances in Zeolite Science and Technology, pp. 57-60, Napoli, 14-17 September 2011*

[urn:isbn:978-88-89976-33-3](http://www.cnr.it/prodotto/i/urn:isbn:978-88-89976-33-3)

info:cnr-pdr/source/autori:Lucio Bonaccorsi, Pietro Calandra, Edoardo Proverbio, Domenico Lombardo/congresso\_nome:Advances in Zeolite Science and Technology/congresso\_luogo:Napoli/congresso\_data:14-17 September 2011/anno:2012/pagina\_da:57/pagina\_a:60/intervallo\_pagine:57-60

**25)-Branched Polymer Nanosystems: Interaction in solution and applications**

Domenico Lombardo

*7th SOLEIL Users' Meeting, (Palaiseau - PARIS) France, 18-19 Gennaio 2012*

<http://www.cnr.it/prodotto/i/194538>

info:cnr-pdr/source/autori:Domenico Lombardo/congresso\_nome:7th SOLEIL Users' Meeting/congresso\_luogo:(Palaiseau - PARIS) France/congresso\_data:18-19 Gennaio 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

## **26)-Zeolite Nanoparticles formation using a Dendrimer Template**

L. Bonaccorsi; P. Calandra; E. Proverbio; D. Lombardo

*MAMA-HYBRIDS - Multifunctional Hybrids and Organics, Ischia (Napoli) Italia, 22-24 Ottobre 2012*

<http://www.cnr.it/prodotto/i/194547>

info:cnr-pdr/source/autori:L. Bonaccorsi, P. Calandra, E. Proverbio and D. Lombardo/congresso\_nome:MAMA-HYBRIDS - Multifunctional Hybrids and Organics/congresso\_luogo:Ischia (Napoli) Italia/congresso\_data:22-24 Ottobre 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

## **27)-Dendrimer Template Directed SelfAssembly during Zeolite Formation**

D. Lombardo; L. Bonaccorsi; P. Calandra; E. Proverbio

*IPCF-Meeting, Cetraro, 21-23 Maggio 2012*

<http://www.cnr.it/prodotto/i/194558>

info:cnr-pdr/source/autori:D. Lombardo, L. Bonaccorsi, P. Calandra, E. Proverbio/congresso\_nome:IPCF-Meeting/congresso\_luogo:Cetraro/congresso\_data:21-23 Maggio 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

## **28)-Electromagnetic and light scattering XIII**

Borghese; F.; Saija; R.; Gucciardi; P.G.; Antonia Iatì; M.; Maragò; O.M.

*Journal of Quantitative Spectroscopy and Radiative Transfer, pp. 2277–2279, 2012*

<http://www.cnr.it/prodotto/i/194564>

info:cnr-pdr/source/autori:Borghese, F., Saija, R., Gucciardi, P.G., Antonia Iatì, M., Maragò, O.M./titolo:Electromagnetic and light scattering XIII/titolo\_volume:Journal of Quantitative Spectroscopy and Radiative Transfer/curatori\_volume:/editore:/anno:2012

## **29)-Laser induced aggregation of gold nanorods for SERS biosensing in liquid environment**

B. Fazio; C. D'Andrea; E. Messina; V. Villari; N. Micali; O. M. Maragò; G. Calogero; P. G. Gucciardi

*1st INTERNATIONAL CONFERENCE ON ENHANCED SPECTROSCOPY (ICES 2012), Porquerolle (France), Oct, 3-5*

<http://www.cnr.it/prodotto/i/194637>

info:cnr-pdr/source/autori:B. Fazio, C. D'Andrea, E. Messina, V. Villari, N. Micali, O. M. Maragò, G. Calogero and P. G. Gucciardi/congresso\_nome:1st INTERNATIONAL CONFERENCE ON ENHANCED SPECTROSCOPY (ICES 2012)/congresso\_luogo:Porquerolle (France)/congresso\_data:Oct, 3-5/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**30)-Laser induced aggregation of gold nanorods for SERS biosensing in liquid environment**

Barbara Fazio; Cristiano D'Andrea; Valentina Villari; Norberto Micali; Onofrio Maragò; Giuseppe Calogero; Pietro Giuseppe Gucciardi

*Analytix-2012, Beijing - China, March 23-25*

<http://www.cnr.it/prodotto/i/194639>

info:cnr-pdr/source/autori:Barbara Fazio , Cristiano D'Andrea, Valentina Villari, Norberto Micali, Onofrio Maragò, Giuseppe Calogero and Pietro Giuseppe Gucciardi/congresso\_nome:Analytix-2012/congresso\_luogo:Beijing - China/congresso\_data:March 23-25/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**31)-Laser induced aggregation of gold nanorods for SERS biosensing in liquid environment**

Barbara Fazio; Cristiano D'Andrea; Valentina Villari; Norberto Micali; Onofrio Maragò; Giuseppe Calogero; Pietro Giuseppe Gucciardi

*CNR - Institute for Chemical-Physical Processes - 1st GENERAL MEETING 2012, Cetraro (Cosenza), May, 21-23*

<http://www.cnr.it/prodotto/i/194641>

info:cnr-pdr/source/autori:Barbara Fazio , Cristiano D'Andrea, Valentina Villari, Norberto Micali, Onofrio Maragò, Giuseppe Calogero and Pietro Giuseppe Gucciardi/congresso\_nome:CNR - Institute for Chemical-Physical Processes - 1st GENERAL MEETING 2012/congresso\_luogo:Cetraro (Cosenza)/congresso\_data:May, 21-23/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**32)-The Magnus force effect in optical micromanipulation**

R.J. Hernández; P. Pagliusi; C. Provenzano; G. Cipparrone

*ELOPTO 2012, Gent (Belgio), Settembre, 2012*

<http://www.cnr.it/prodotto/i/194840>

info:cnr-pdr/source/autori:R.J. Hernández, P. Pagliusi, C. Provenzano, G. Cipparrone/congresso\_nome:ELOPTO 2012/congresso\_luogo:Gent (Belgio)/congresso\_data:Settembre, 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**33)-Efficienza fotocatalitica di sub-strati di TiO<sub>2</sub> permanentemente densificato**

Carini G. Jr; Di Marco G.; Tripodo G.; Edi Gilioli

*XCVIII Congresso Nazionale, Società Italiana di Fisica, Napoli, 17-21 Settembre 2012*

<http://www.cnr.it/prodotto/i/194933>

info:cnr-pdr/source/autori:Carini G. Jr , Di Marco G., Tripodo G., Edi Gilioli/congresso\_nome:XCVIII Congresso Nazionale, Società Italiana di Fisica/congresso\_luogo:Napoli/congresso\_data:17-21 Settembre 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

#### **34)-Low-energy vibration excess in densified B2O3 glasses**

Giovanni Carini Jr; Gaspare Tripodo; Giovanna D'Angelo; Gaetano Di Marco; Edmondo Gilioli<sup>3</sup>; Cirino Vasi

*XCVIII Congresso Nazionale, Società Italiana di Fisica, Napoli, 17-21 Settembre*

<http://www.cnr.it/prodotto/i/194934>

info:cnr-pdr/source/autori:Giovanni Carini Jr, Gaspare Tripodo, Giovanna D'Angelo, Gaetano Di Marco, Edmondo Gilioli<sup>3</sup>, Cirino Vasi/congresso\_nome:XCVIII Congresso Nazionale, Società Italiana di Fisica/congresso\_luogo:Napoli/congresso\_data:17-21 Settembre/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

#### **35)-Raman optical trapping of carbon nanotubes and graphene**

M. G. Donato; P. G. Gucciardi; S. Vasi; M. Monaca; R. Sayed; G. Calogero; P.H. Jones; O.M. Maragò

*Workshop on Carbon-based low-dimensional Materials, Catania, 5-7 December 2011*

<urn:isbn:978-88-8080-124-5>

info:cnr-pdr/source/autori:M. G. Donato, P. G. Gucciardi, S. Vasi, M. Monaca, R. Sayed, G. Calogero, P.H. Jones, O.M. Maragò/congresso\_nome:Workshop on Carbon-based low-dimensional Materials/congresso\_luogo:Catania/congresso\_data:5-7 December 2011/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

#### **36)-Shaping of the trapping volume in optical tweezers using cylindrical vector beams**

S.E. Skelton; M. Sergides; M.G. Donato; S. Vasi; R. Sayed; P.G. Gucciardi; R. Saija; M.A. Iatì; O.M. Marago; P.H. Jones

*SPIE, 2012*

<https://dx.doi.org/10.1117/12.929927>

info:cnr-pdr/source/autori:S.E. Skelton, M. Sergides, M.G. Donato, S. Vasi, R. Sayed, P.G. Gucciardi, R. Saija, M.A. Iatì, O.M. Marago, P.H. Jones/congresso\_nome:SPIE/congresso\_luogo:/congresso\_data:2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

#### **37)-Optical trapping of nanostructures**

O.M. Maragò; M.G. Donato; A. Irrera; B. Fazio; P.G. Gucciardi; M.A. Iatì; C. D'Andrea; M. Monaca; E. Messina; R. Sayed; S. Vasi; R. Saija; S. Savasta

*XCVIII Congresso Nazionale della Società Italiana di Fisica, Napoli, 17-21 Settembre 2012*

<http://www.cnr.it/prodotto/i/196047>



info:cnr-pdr/source/autori:O.M. Maragò, M.G. Donato, A. Irrera, B. Fazio, P.G. Gucciardi, M.A. Iatì, C. D'Andrea, M. Monaca, E. Messina, R. Sayed, S. Vasi, R. Saija, S. Savasta/congresso\_nome:XCVIII Congresso Nazionale della Società Italiana di Fisica/congresso\_luogo:Napoli/congresso\_data:17-21 Settembre 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

### **38)-Intracavity optical trapping with feedback-locked diode lasers**

R. Sayed; Y. Tuna; M. G. Donato; P. G. Gucciardi; G. Volpe; O. M. Maragò  
*International OSA Network of Students 2012 (IONS-12), Napoli, 4-7 Luglio 2012*  
<http://www.cnr.it/prodotto/i/196048>

info:cnr-pdr/source/autori:R. Sayed, Y. Tuna, M. G. Donato, P. G. Gucciardi, G. Volpe, O. M. Maragò/congresso\_nome:International OSA Network of Students 2012 (IONS-12)/congresso\_luogo:Napoli/congresso\_data:4-7 Luglio 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

### **39)-Optical Trapping of Carbon Nanotubes and Femtonewton Force Sensing**

S. Vasi; M. Monaca; R. Sayed; M.G. Donato; P.G. Gucciardi; O. M. Maragò  
*International OSA Network of Students 2012 (IONS-12), Napoli, 4-7 Luglio 2012*  
<http://www.cnr.it/prodotto/i/196051>

info:cnr-pdr/source/autori:S. Vasi, M. Monaca, R. Sayed, M.G. Donato, P.G. Gucciardi, O. M. Maragò/congresso\_nome:International OSA Network of Students 2012 (IONS-12)/congresso\_luogo:Napoli/congresso\_data:4-7 Luglio 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

### **40)-Optical Feedback Radiation Forces: Intracavity Optical Trapping with Feedback-locked Diode Lasers**

Y. Tuna; R. Sayed; M.G. Donato; P.G. Gucciardi; O. Maragò; G. Volpe  
*Frontiers in Optics 2012- Laser Science XXVIII (FiO/LS 2012), Rochester, New York (USA), 14-18 Ottobre 2012*  
<http://www.cnr.it/prodotto/i/196056>

info:cnr-pdr/source/autori:Y. Tuna, R. Sayed, M.G. Donato, P.G. Gucciardi, O. Maragò, G. Volpe/congresso\_nome:Frontiers in Optics 2012- Laser Science XXVIII (FiO/LS 2012)/congresso\_luogo:Rochester, New York (USA)/congresso\_data:14-18 Ottobre 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

### **41)-Development of new PLA-based biodegradable compounds**

Francesca Signori; Alessia Boggioni; Francesco Ciardelli; Simona BroncoSUBJECTPoly(lactic acid)SUBJECTreactive extrusionSUBJECTcross-linkingSUBJECTbiodegradable polyesters  
*6TH INTERNATIONAL CONFERENCE ON TIMES OF POLYMERS (TOP) AND COMPOSITES, pp. 30–32, Ischia (Italy), 10-14 June 2012*

<https://dx.doi.org/10.1063/1.4738388>

info:cnr-pdr/source/autori:Francesca Signori, Alessia Boggioni, Francesco Ciardelli, Simona Bronco/congresso\_nome:6TH INTERNATIONAL CONFERENCE ON TIMES OF POLYMERS (TOP) AND COMPOSITES/congresso\_luogo:Ischia (Italy)/congresso\_data:10-14 June 2012/anno:2012/pagina\_da:30/pagina\_a:32/intervallo\_pagine:30-32

**42)-The Lattice Boltzmann method as a general framework for blood flow modeling and simulations**

S. MELCHIONNA; G. Pontrelli; M. Bernaschi; M. Bisson; I. Halliday; T.J. Spencer; S. Succi  
*Nano and Micro Flow Systems for Bioanalysis, 2012*

<http://www.cnr.it/prodotto/i/196322>

info:cnr-pdr/source/autori:S. MELCHIONNA, G. Pontrelli, M. Bernaschi, M. Bisson, I. Halliday, T.J. Spencer, S. Succi/titolo:The Lattice Boltzmann method as a general framework for blood flow modeling and simulations/titolo\_volume:Nano and Micro Flow Systems for Bioanalysis/curatori\_volume:/editore:/anno:2012

**43)-Large-scale simulations of blood flow with coarse-grained cells**

S. MELCHIONNA

*Hierarchical methods for dynamics of complex molecular systems, 2012*

<http://www.cnr.it/prodotto/i/196323>

info:cnr-pdr/source/autori:S. MELCHIONNA/titolo:Large-scale simulations of blood flow with coarse-grained cells/titolo\_volume:Hierarchical methods for dynamics of complex molecular systems/curatori\_volume:/editore:/anno:2012

**44)-The Lattice Boltzmann method and multiscale hemodynamics: recent advances and perspectives**

G. Pontrelli; I. Halliday; S. Melchionna; T.J. Spencer; S. Succi

*MathMod Conference Proceedings, 2012*

<http://www.cnr.it/prodotto/i/196325>

info:cnr-pdr/source/autori:G. Pontrelli, I. Halliday, S. Melchionna, T.J. Spencer, S. Succi/congresso\_nome:MathMod Conference Proceedings/congresso\_luogo:/congresso\_data:2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**45)-Quantitative mapping of Carbon, Oxygen and Nitrogen in cells by x-ray fluorescence, x-ray transmission and atomic force microscopies**

Lagomarsino S

*11th International Conference on X-ray Microscopy, Shanghai, China, 5 al 10 Agosto 2012*

<http://www.cnr.it/prodotto/i/196326>

info:cnr-pdr/source/autori:Lagomarsino S/congresso\_nome:11th International Conference on X-ray Microscopy/congresso\_luogo:Shanghai, China/congresso\_data:5 al 10 Agosto 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

#### **46)-Periodically structured x-ray waveguides**

Lagomarsino S

*11th International Conference on X-ray Microscopy, Shanghai, China, dal 5 al 10 Agosto 2012*

<http://www.cnr.it/prodotto/i/196328>

info:cnr-pdr/source/autori:Lagomarsino S/congresso\_nome:11th International Conference on X-ray Microscopy/congresso\_luogo:Shanghai, China/congresso\_data:dal 5 al 10 Agosto 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

#### **47)-Monomodal periodically structured x-ray waveguide for coherent imaging and diffraction**

Lagomarsino S

*11th Biennial Conference on High Resolution X-Ray Diffraction and Imaging, S. Pietroburgo (Russia), dal 15 al 20 settembre 2012*

<http://www.cnr.it/prodotto/i/196329>

info:cnr-pdr/source/autori:Lagomarsino S/congresso\_nome:11th Biennial Conference on High Resolution X-Ray Diffraction and Imaging/congresso\_luogo:S. Pietroburgo (Russia)/congresso\_data:dal 15 al 20 settembre 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

#### **48)-Waveguide interferometry for the coherence characterization of hard x-ray laboratory source**

Lagomarsino S

*11th Biennial Conference on High Resolution X-Ray Diffraction and Imaging, S. Pietroburgo (Russia), al 15 al 20 settembre 2012*

<http://www.cnr.it/prodotto/i/196330>

info:cnr-pdr/source/autori:Lagomarsino S/congresso\_nome:11th Biennial Conference on High Resolution X-Ray Diffraction and Imaging/congresso\_luogo:S. Pietroburgo (Russia)/congresso\_data:al 15 al 20 settembre 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

#### **49)-CONFOCAL DEPOLARIZED DYNAMIC LIGHT SCATTERING**

Potenza, MAC (Potenza, Marco A. C.)<sup>1</sup>; Sanvito, T (Sanvito, Tiziano)<sup>1</sup>; Degiorgio, V (Degiorgio, Vittorio)<sup>2</sup>; Giglio, M (Giglio, Marzio)<sup>1</sup>

*KINETICS AND THERMODYNAMICS OF MULTISTEP NUCLEATION AND SELF-ASSEMBLY IN NANOSCALE MATERIALS: ADVANCES IN CHEMICAL PHYSICS., edited by Nicolis, G; Maes, D, pp. 61–78. MALDEN 02148,MA: WILEY-BLACKWELL, 2012*

<https://dx.doi.org/10.1002/978-1-118-30951-3>

info:cnr-pdr/source/autori:Potenza, MAC (Potenza, Marco A. C.)1; Sanvito, T (Sanvito, Tiziano)1; Degiorgio, V (Degiorgio, Vittorio)2; Giglio, M (Giglio, Marzio)1/titolo:CONFOCAL DEPOLARIZED DYNAMIC LIGHT SCATTERING/titolo\_volume:KINETICS AND THERMODYNAMICS OF MULTISTEP NUCLEATION AND SELF-ASSEMBLY IN NANOSCALE MATERIALS: ADVANCES IN CHEMICAL PHYSICS,/curatori\_volume:Nicolis, G; Maes, D/editore:

/anno:2012

#### **50)-Scale-Free optics**

Claudio Conti; Eugenio Del Re

*Nonlinear Photonics and Novel Optical Phenomena, edited by Zhigang Chen and Roberto Morandotti (eds.), pp. 207–230, 2012*

[https://dx.doi.org/10.1007/978-1-4614-3538-9\\_8](https://dx.doi.org/10.1007/978-1-4614-3538-9_8)

info:cnr-pdr/source/autori:Claudio Conti, Eugenio Del Re/titolo:Scale-Free optics/titolo\_volume:Nonlinear Photonics and Novel Optical Phenomena/curatori\_volume:Zhigang Chen and Roberto Morandotti (eds.)/editore:/anno:2012

#### **51)-Singular particle distributions associated with a steady state, asymmetric virtual cathode in the collision-less sheath facing a Langmuir plasma probe**

NOCERA L; PALUMBO L JSUBJECTplasma kineticsSUBJECTVlasov equationSUBJECTsheathsSUBJECTvirtual cathodeSUBJECTplasma probes

*First IPCF General Meeting, Cetraro, 23-25/05/2012*

<http://www.cnr.it/prodotto/i/196951>

info:cnr-pdr/source/autori:NOCERA L; PALUMBO L J/congresso\_nome:First IPCF General Meeting/congresso\_luogo:Cetraro/congresso\_data:23-25/05/2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

#### **52)-Ultrathin polymer films: Interfacial and annealing dependence of confinement effects**

Daniele Prevosto; Hung K. Nguyen; Massimiliano Labardi; Simone Capaccioli; Mauro Lucchesi; Pierangelo RollaSUBJECTultrathin filmSUBJECTrelaxation dynamicsSUBJECTinterfacial propertiesSUBJECTadsorbed layer

*6TH INTERNATIONAL CONFERENCE ON TIMES OF POLYMERS (TOP) AND COMPOSITES, pp. 58–60, Ischia, 10-14 giugno 2012*

<https://dx.doi.org/10.1063/1.4738397>

info:cnr-pdr/source/autori:Daniele Prevosto, Hung K. Nguyen, Massimiliano Labardi, Simone Capaccioli, Mauro Lucchesi, Pierangelo Rolla/congresso\_nome:6TH INTERNATIONAL

CONFERENCE ON TIMES OF POLYMERS (TOP) AND COMPOSITES/congresso\_luogo:Ischia/congresso\_data:10-14 giugno 2012/anno:2012/pagina\_da:58/pagina\_a:60/intervallo\_pagine:58-60

**53)-Temperature dependence of structural relaxation time in drawn polymers: Which is the role of cooperativity?**

F. Hamonic; A. Saiter; D. Prevosto; E. Dargent; J. M. Saiter  
SUBJECTsemicrystalline polymers  
SUBJECTdrawing  
SUBJECTcooperative rearranging regions  
SUBJECTdielectric relaxation.

*6TH INTERNATIONAL CONFERENCE ON TIMES OF POLYMERS (TOP) AND COMPOSITES, pp. 211-213, Ischia, 10-14 giugno 2012*

<https://dx.doi.org/10.1063/1.4738446>

info:cnr-pdr/source/autori:F. Hamonic, A. Saiter, D. Prevosto, E. Dargent, J. M. Saiter/congresso\_nome:6TH INTERNATIONAL CONFERENCE ON TIMES OF POLYMERS (TOP) AND COMPOSITES/congresso\_luogo:Ischia/congresso\_data:10-14 giugno 2012/anno:2012/pagina\_da:211/pagina\_a:213/intervallo\_pagine:211-213

**54)-Si nanowires as light emitting devices at room temperature and their manipulation by optical tweezers**

P. Artoni<sup>1</sup>; A. Irrera; F. Iacona; G. Franzò; S. Boninelli; E. F. Pecora; M. Galli; B. Fazio; P. Gucciardi; O. Maragò; F. Priolo

*Submitted to symposium N : Control of light at the nanoscale: materials, techniques and applications of the E-MRS 2012 Spring Meeting,, Strasburgo, 2012*

<http://www.cnr.it/prodotto/i/197361>

info:cnr-pdr/source/autori:P. Artoni<sup>1</sup>, A. Irrera, F. Iacona, G. Franzò, S. Boninelli, E. F. Pecora, M. Galli, B. Fazio, P. Gucciardi, O. Maragò, F. Priolo/congresso\_nome:Submitted to symposium N : Control of light at the nanoscale: materials, techniques and applications of the E-MRS 2012 Spring Meeting,/congresso\_luogo:Strasburgo/congresso\_data:2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**55)-Size-Scaling in Optical Trapping of Silicon Nanowires**

Alessia Irrera<sup>1</sup>; Pietro Artoni<sup>2, 3</sup>; Rosalba Saija<sup>4</sup>; Pietro G. Gucciardi<sup>1</sup>; Maria Antonia Iatì<sup>1</sup>; Ferdinando Borghese<sup>4</sup>; Paolo Denti<sup>4</sup>; Fabio Iacona<sup>2</sup>; Francesco Priolo<sup>2, 3</sup>; Onofrio M. Maragò<sup>1</sup>

*symposium N : Control of light at the nanoscale: materials, techniques and applications of the E-MRS 2012 Spring Meeting, 2012*

<http://www.cnr.it/prodotto/i/197363>

info:cnr-pdr/source/autori:Alessia Irrera<sup>1</sup>, Pietro Artoni<sup>2,3</sup>, Rosalba Saija<sup>4</sup>, Pietro G. Gucciardi<sup>1</sup>, Maria Antonia Iatì<sup>1</sup>, Ferdinando Borghese<sup>4</sup>, Paolo Denti<sup>4</sup>, Fabio Iacona<sup>2</sup>, Francesco Priolo<sup>2,3</sup>, and Onofrio M. Maragò<sup>1</sup>/congresso\_nome:symposium N : Control of

light at the nanoscale: materials, techniques and applications of the E-MRS 2012 Spring Meeting/congresso\_luogo:/congresso\_data:2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

#### **56)-Optical Trapping of Nanostructures**

O. M. Marago'; M. G. Donato; A. Irrera; B. Fazio; P. G. Gucciardi; M. A. Iatì; G. Calogero; C. D'Andrea; E. Messina; M. Monaca; R. Sayed; S. Vasi; F. Bonaccorso; A. C. Ferrari; P. H. Jones; R. Saija S. Savasta

*XCVIII Congresso Nazionale della SIF, Napoli, 17-21 Settembre 2012*

<http://www.cnr.it/prodotto/i/198309>

info:cnr-pdr/source/autori:O. M. Marago', M. G. Donato, A. Irrera, B. Fazio, P. G. Gucciardi, M. A. Iatì, G. Calogero, C. D'Andrea, E. Messina, M. Monaca, R. Sayed, S. Vasi, F. Bonaccorso, A. C. Ferrari, P. H. Jones, R. Saija S. Savasta/congresso\_nome:XCVIII Congresso Nazionale della SIF/congresso\_luogo:Napoli/congresso\_data:17-21 Settembre 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

#### **57)-Optical Trapping of Nanostructures: Femtonewton Force Sensing and Ultra-Sensitive Spectroscopy**

O. M. Marago'

*NanoSpain2012, Santander, Spagna, 27 Feb-1 Mar 2012*

<http://www.cnr.it/prodotto/i/198310>

info:cnr-pdr/source/autori:O.

M.

Marago'/congresso\_nome:NanoSpain2012/congresso\_luogo:Santander,

Spagna/congresso\_data:27 Feb-1 Mar 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

#### **58)-Optical squeezing of microbubbles: Ray optics and Mie scattering calculations**

Skelton S.E.; Sergides M.; Memoli G.; Maragó O.M.; Jones P.H.

*Optical Trapping and Optical Micromanipulation IX, San Diego, Aug 2012*

<https://dx.doi.org/10.1117/12.929900>

info:cnr-pdr/source/autori:Skelton S.E., Sergides M., Memoli G., Maragó O.M., Jones P.H./congresso\_nome:Optical Trapping and Optical Micromanipulation IX/congresso\_luogo:San Diego/congresso\_data:Aug 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

#### **59)-Optically bound particle structures in evanescent wave traps**

Sergides M.; Skelton S.E; Karczewska E.; Thorneycroft K.; Marago' O.M.; Jones P.H.

*Optical Trapping and Optical Micromanipulation IX, San Diego, Aug 2012*

<https://dx.doi.org/10.1117/12.929612>

info:cnr-pdr/source/autori:Sergides M., Skelton S.E, Karczewska E., Thorneycroft K., Marago' O.M., Jones P.H./congresso\_nome:Optical Trapping and Optical Micromanipulation IX/congresso\_luogo:San Diego/congresso\_data:Aug 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**60)-Near-field and far-field optical properties of metal nanoparticles in the T-matrix approach**

Iati' M.A., Cacciola A., Saija R., Denti P., Borghese F.; Marago' O.M.; Gucciardi P.G.  
*1st INTERNATIONAL CONFERENCE ON ENHANCED SPECTROSCOPY, ICES 2012, Porquerolles Island, French Riviera, 3-5 Oct. 2012*  
<http://www.cnr.it/prodotto/i/198319>

info:cnr-pdr/source/autori:Iati' M.A., Cacciola A., Saija R., Denti P., Borghese F.; Marago' O.M.; Gucciardi P.G./congresso\_nome:1st INTERNATIONAL CONFERENCE ON ENHANCED SPECTROSCOPY, ICES 2012/congresso\_luogo:Porquerolles Island, French Riviera/congresso\_data:3-5 Oct. 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**61)-Near-field and far-field optical properties of metal nanoparticles in the T-matrix approach**

Iati' M.A.; Cacciola A.; Saija R.; Marago' O.M.; Gucciardi P.G.  
*XCVIII Congresso Nazionale della SIF, Napoli, 17-21 settembre 2012*  
<http://www.cnr.it/prodotto/i/198320>

info:cnr-pdr/source/autori:Iati' M.A.; Cacciola A.; Saija R.; Marago' O.M.; Gucciardi P.G./congresso\_nome:XCVIII Congresso Nazionale della SIF/congresso\_luogo:Napoli/congresso\_data:17-21 settembre 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**62)-Catalytic Wet Air Oxidation over carbon based catalysts**

A. R. Shahul Hameed; E. Piperopoulos; S. Santangelo; M. Lanza; S. Galvagno; C. Milone  
*15th ICC 2012, Monaco, 1-6 Luglio 2012*  
<http://www.cnr.it/prodotto/i/199443>

info:cnr-pdr/source/autori:A. R. Shahul Hameed, E. Piperopoulos, S. Santangelo, M. Lanza, S. Galvagno, C. Milone/congresso\_nome:15th ICC 2012/congresso\_luogo:Monaco/congresso\_data:1-6 Luglio 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**63)-Role of Mg1-xFexO phase in the growth of CNTs by Catalytic Chemical Vapor Deposition**

E. Piperopoulos; S. Santangelo; M. Lanza; G. Faggio; G. Messina; A. Pistone; S. Galvagno; C. Milone  
*15th ICC 2012, Monaco, 1-6 Luglio 2012*  
<http://www.cnr.it/prodotto/i/199444>

info:cnr-pdr/source/autori:E. Piperopoulos, S. Santangelo, M. Lanza, G. Faggio, G. Messina, A. Pistone, S. Galvagno, C. Milone/congresso\_nome:15th ICC  
2012/congresso\_luogo:Monaco/congresso\_data:1-6 Luglio  
2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**64)-Taguchi-optimised catalytic growth of carbon nanotubes for electro-catalysis applications**

S. Santangelo; E. Piperopoulos; G. Faggio; M. Lanza; G. Messina; S. Galvagno; C. Milone  
*CarboCat V, Bressanone (Brixen), 28-30 giugno 2012*

<http://www.cnr.it/prodotto/i/199447>

info:cnr-pdr/source/autori:S. Santangelo, E. Piperopoulos, G. Faggio, M. Lanza, G. Messina, S. Galvagno, C. Milone/congresso\_nome:CarboCat V/congresso\_luogo:Bressanone (Brixen)/congresso\_data:28-30 giugno  
2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**65)-CNT synthesis over bimetallic supported catalysts: influence of carbon source**

E. Piperopoulos; M. Lanza; A. Pistone; S. Santangelo; S. Galvagno; C. Milone  
*CarboCat V, Bressanone (Brixen), 28-30 giugno 2012*

<http://www.cnr.it/prodotto/i/199449>

info:cnr-pdr/source/autori:E. Piperopoulos, M. Lanza, A. Pistone, S. Santangelo, S. Galvagno, C. Milone/congresso\_nome:CarboCat V/congresso\_luogo:Bressanone (Brixen)/congresso\_data:28-30 giugno  
2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**66)-Functionalization of Carbon Nanotubes under dry and wet conditions**

C. Milone; F. Venuti; S. Ansari; E. Piperopoulos; M. Lanza; A. Pistone; S. Galvagno; S. Santangelo

*VIII Convegno AICIng 2012, Aci Castello (CT), 16-19 Settembre 2012*

<http://www.cnr.it/prodotto/i/199453>

info:cnr-pdr/source/autori:C. Milone, F. Venuti, S. Ansari, E. Piperopoulos, M. Lanza, A. Pistone, S. Galvagno, S. Santangelo/congresso\_nome:VIII Convegno AICIng 2012/congresso\_luogo:Aci Castello (CT)/congresso\_data:16-19 Settembre  
2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**67)-DOE Method for the Tuning of Carbon Nanomaterial Properties**

S. Santangelo; E. Piperopoulos; M. Lanza; G. Messina; G. Faggio; S. Galvagno; C. Milone  
*VIII Convegno AICIng 2012, Aci Castello (CT), 16-19 Settembre 2012*

<http://www.cnr.it/prodotto/i/199455>

info:cnr-pdr/source/autori:S. Santangelo, E. Piperopoulos, M. Lanza, G. Messina, G. Faggio, S. Galvagno, C. Milone/congresso\_nome:VIII Convegno AICIng 2012/congresso\_luogo:Aci



**68)-Driving and dissipation of the turbulent cascade in the solar wind**

Sorriso-Valvo L

*Workshop on Microphysics of Cosmic Plasmas, Berna (Svizzera), 2012*

<http://www.cnr.it/prodotto/i/201537>

info:cnr-pdr/source/autori:Sorriso-Valvo L/congresso\_nome:Workshop on Microphysics of Cosmic Plasmas/congresso\_luogo:Berna (Svizzera)/congresso\_data:2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**69)-Anisotropy of Spatiotemporal Decorrelation in Electrohydrodynamic Turbulence**

Sorriso-Valvo L

*IPCF-CNR General Meeting 2012, 2012*

<http://www.cnr.it/prodotto/i/201539>

info:cnr-pdr/source/autori:Sorriso-Valvo L/congresso\_nome:IPCF-CNR General Meeting 2012/congresso\_luogo:/congresso\_data:2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**70)-Radial evolution of intermittency of density fluctuations**

Sorriso-Valvo L

*Workshop on Turbulent cascade in the solar wind: anisotropy and dissipation, 2012*

<http://www.cnr.it/prodotto/i/201541>

info:cnr-pdr/source/autori:Sorriso-Valvo L/congresso\_nome:Workshop on Turbulent cascade in the solar wind: anisotropy and dissipation/congresso\_luogo:/congresso\_data:2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**71)-Self-consistent probability distribution functions of turbulent fluctuations in the solar wind**

Sorriso-Valvo L.; Marino R.; Lijoi L.; Perri S.

*AGU Fall Meeting, 2012*

<http://www.cnr.it/prodotto/i/201616>

info:cnr-pdr/source/autori:Sorriso-Valvo L., Marino R., Lijoi L., Perri S./congresso\_nome:AGU Fall Meeting/congresso\_luogo:/congresso\_data:2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**72)-Energy cascade and phase-synchronization in the solar wind turbulence**

Perri S.; Vecchio A.; Carbone V.; Bruno R.; Korth H.; Zurbuchen T.; Sorriso-Valvo L  
*AGU Fall Meeting, 2012*  
<http://www.cnr.it/prodotto/i/201617>

info:cnr-pdr/source/autori:Perri S., Vecchio A., Carbone V., Bruno R., Korth H., Zurbuchen T., Sorriso-Valvo L/congresso\_nome:AGU Fall Meeting/congresso\_luogo:/congresso\_data:2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**73)-Wavelength-insensitive negative optical permittivity without nanofabrication in transparent nonlinear dipolar glasses**

Eugenio DelRe (1); Jacopo Parravicini (1); Gianbattista Parravicini (2); Aharon J. Agranat (3); Claudio Conti (4)SUBJECTDipolar glassSUBJECTNegative permittivitySUBJECTOptical permittivitySUBJECTPhoto-refractiveSUBJECTTemperature swings

*Conference on Lasers and Electro-Optics (CLEO), pp. art\_n\_6326989, San Jose, CA, 6-11 May, 2012*

<https://dx.doi.org/10.1364/QELS.2012.QTh3E.4>

info:cnr-pdr/source/autori:Eugenio DelRe (1); Jacopo Parravicini (1); Gianbattista Parravicini (2); Aharon J. Agranat (3);

Claudio Conti (4)/congresso\_nome:Conference on Lasers and Electro-Optics (CLEO)/congresso\_luogo:San Jose, CA/congresso\_data:6-11 May, 2012/anno:2012/pagina\_da:art\_n\_6326989/pagina\_a:/intervallo\_pagine:art\_n\_6326989

**74)-Collaborazione Congiunta CNR-ICFO**

Giuseppe Lombardo; Marco Lombardo; Pablo Loza Alvarez  
*2012*

<http://www.cnr.it/prodotto/i/213535>

**75)-Formation and propagation of shock waves in nonlocal media**

Neda Ghofraniha (1); Luigi Amato Santamaria (2); Viola Folli (2); Claudio Conti (3,2); Eugenio DelRe (3,1)

*Specialty Optical Fibers (SOF) / Bragg Gratings, Photosensitivity, and Poling in Glass Waveguides (BGPP) / Integrated Photonics Research, Silicon and Nanophotonics (IPRSN) / Signal Processing in Photonic Communications (SPPCom), pp. paper\_JM5A.44, Colorado Springs, Colorado United States, June 17-21, 2012*

<https://dx.doi.org/10.1364/ANIC.2012.JM5A.44>

info:cnr-pdr/source/autori:Neda Ghofraniha (1); Luigi Amato Santamaria (2); Viola Folli (2); Claudio Conti (3,2); Eugenio DelRe (3,1)/congresso\_nome:Specialty Optical Fibers (SOF) / Bragg Gratings, Photosensitivity, and Poling in Glass Waveguides (BGPP) / Integrated Photonics Research, Silicon and Nanophotonics (IPRSN) / Signal Processing in Photonic Communications (SPPCom)/congresso\_luogo:Colorado Springs, Colorado United

**76)-Atomic Force Spectroscopies: A Toolbox for Probing the Biological Matter**

Michele Giocondo<sup>1</sup>; Said Houmadi<sup>1</sup>; Emanuela Bruno<sup>1, 2</sup>; Maria P. De Santo<sup>1, 2</sup>; Luca De Stefano<sup>3</sup>; Emmanuelle Lacaze<sup>4</sup>; Sara Longobardi<sup>5</sup>; Paola Giardina<sup>5</sup>.

*Atomic Force Microscopy Investigations into Biology - From Cell to Protein, edited by Christopher L. Frewin, pp. 3–28. Rijeka: InTech Open Science/Open Minds, 2012*

<https://dx.doi.org/10.5772/37622>

info:cnr-pdr/source/autori:Michele Giocondo<sup>1</sup>, Said Houmadi<sup>1</sup>, Emanuela Bruno<sup>1,2</sup>, Maria P. De Santo<sup>1,2</sup>, Luca De Stefano<sup>3</sup>, Emmanuelle Lacaze<sup>4</sup>, Sara Longobardi<sup>5</sup> and Paola Giardina<sup>5</sup>./titolo:Atomic Force Spectroscopies: A Toolbox for Probing the Biological Matter/titolo\_volume:Atomic Force Microscopy Investigations into Biology - From Cell to Protein/curatori\_volume:Christopher L. Frewin/editore:

/anno:2012

**77)-Biosensors Based on Immobilization of Proteins in Supramolecular Assemblies for the Detection of Environmental Relevant Analytes**

Rosa Pilolli a; Maria Daniela Angione a; Serafina Cotrone a; Maria Magliulo a; Gerardo Palazzo a; Nicola Cioffi a; Luisa Torsi a; Antonia Mallardi b.

*Biosensors and environmental health, edited by Victor R. Preedy and Vinood Patel Editors; CRC Press, pp. 209–229, 2012*

<http://www.cnr.it/prodotto/i/238843>

info:cnr-pdr/source/autori:Rosa Pilolli a; Maria Daniela Angione a; Serafina Cotrone a; Maria Magliulo a; Gerardo Palazzo a; Nicola Cioffi a; Luisa Torsi a; and Antonia Mallardi b./titolo:Biosensors Based on Immobilization of Proteins in Supramolecular Assemblies for the Detection of Environmental Relevant Analytes/titolo\_volume:Biosensors and environmental health/curatori\_volume:Victor R. Preedy and Vinood Patel Editors; CRC Press/editore:/anno:2012

**78)-Artificial Photosynthetic Systems**

P. Maróti; M. TrottaSUBJECTArtificial Photosynthesis

*CRC Handbook of Organic Photochemistry and Photobiology 3rd Edition, edited by Axel Griesbeck, Michael Oelgemöller and Francesco Ghetti, pp. 1289–1324. Boca Raton: CRC press, 2012*

<https://dx.doi.org/10.1201/b12252-56>

info:cnr-pdr/source/autori:P. Maróti, M. Trotta/titolo:Artificial Photosynthetic Systems/titolo\_volume:CRC Handbook of Organic Photochemistry and Photobiology 3rd Edition/curatori\_volume:Axel Griesbeck , Michael Oelgemöller and Francesco Ghetti/editore:

/anno:2012

**79)-Enhancing light harvesting capability of the photosynthetic reaction centre by a tailored molecular fluorophore**

R. Tangorra; F. Milano; O. Hassan Omar; R. Ragni; A. Operamolla; A. Agostiano; G.M. Farinola; M. Trotta

*Congresso Annuale Società Italiana di FotoBiologia, Padova, 14-16 giugno 2012*

<http://www.cnr.it/prodotto/i/274141>

info:cnr-pdr/source/autori:R. Tangorra, F. Milano, O. Hassan Omar, R. Ragni, A. Operamolla, A. Agostiano, G.M. Farinola and M. Trotta/congresso\_nome:Congresso Annuale Società Italiana di FotoBiologia/congresso\_luogo:Padova/congresso\_data:14-16 giugno 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**80)-A bio-organic hybrid photosynthetic complex for enhanced photoconversion**

G.M. Farinola; R. Tangorra; F. Milano; O. Hassan Omar; R. Ragni; A. Operamolla; A. Agostiano; M. Trotta

*ELECMOL'12: 6th International Meeting on Molecular Electronics, Grenoble (Fr), 3-7 dicembre*

<http://www.cnr.it/prodotto/i/274148>

info:cnr-pdr/source/autori:G.M. Farinola, R. Tangorra, F. Milano, O. Hassan Omar, R. Ragni, A. Operamolla, A. Agostiano, M. Trotta/congresso\_nome:ELECMOL'12: 6th International Meeting on Molecular Electronics/congresso\_luogo:Grenoble (Fr)/congresso\_data:3-7 dicembre/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**81)-Enhancing light harvesting capability of the photosynthetic reaction centre by a tailored molecular fluorophore**

R. Tangorra; F. Milano; O. Hassan Omar; R. Ragni; A. Operamolla; A. Agostiano; G.M. Farinola; M. Trotta

*European Society for Photobiology - ESP PHOTOBIOLOGY SCHOOL, Brixen/Bressanone, 18-23 giugno*

<http://www.cnr.it/prodotto/i/274153>

info:cnr-pdr/source/autori:R. Tangorra, F. Milano, O. Hassan Omar, R. Ragni, A. Operamolla, A. Agostiano, G.M. Farinola and M. Trotta/congresso\_nome:European Society for

**82)-Assembly of gold nanorods for highly sensitive detection of heavy metals**

Placido; Tiziana; Comparelli; Roberto; Striccoli; Marinella; Agostiano; Angela; Merkoci; Arben; Lucia Curri; M.SUBJECTMERCURY IONSSUBJECTNANOPARTICLES

*11th IEEE Sensors Conference, pp. 672–675, Taipei, TAIWAN,, OCT 28-31, 2012*

[urn:isbn:978-1-4577-1766-6](http://urn:isbn:978-1-4577-1766-6)

info:cnr-pdr/source/autori:Placido, Tiziana and Comparelli, Roberto and Striccoli, Marinella and Agostiano, Angela and Merkoci, Arben and Lucia Curri, M./congresso\_nome:11th IEEE Sensors Conference/congresso\_luogo:Taipei, TAIWAN,/congresso\_data:OCT 28-31, 2012/anno:2012/pagina\_da:672/pagina\_a:675/intervallo\_pagine:672–675

**83)-Patent number WO2012163426: ELECTRODE MATERIAL FOR LITHIUM AND LITHIUM ION BATTERIES**

*WO2012163426; Internazionale*

<http://patentscope.wipo.int/search/en/WO2012163426>

**84)-Photocatalytic activity of TiO<sub>2</sub> based nanocatalyst for antibiotic degradation**

Petronella F and Diomede S and Mascolo G and Agostiano A and Curri M L and COMPARELLI R.

*SPEA 7, Porto, PT, 2012*

<http://www.cnr.it/prodotto/i/274977>

info:cnr-pdr/source/autori:Petronella F and Diomede S and Mascolo G and Agostiano A and Curri M L and COMPARELLI R./congresso\_nome:SPEA 7/congresso\_luogo:Porto, PT/congresso\_data:2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**85)-Machine for the controlled deposition of liquid-phase, polymeric, non-polymeric and photosensitive optical fibers in solution**

CAMPOPIANO S;

*IT1409442-B, Internazionale, 2014*

<http://www.cnr.it/prodotto/i/295175>

**86)-Theoretical non linear spectroscopies for chiral discrimination**

Antonio Rizzo

*CECAM workshop "Vibrational Optical Activity: Interplay Theory and Experiment", Pisa, Italy, 23-27 Settembre 2012*

<http://www.cnr.it/prodotto/i/300359>

info:cnr-pdr/source/autori:Antonio Rizzo/congresso\_nome:CECAM workshop "Vibrational Optical Activity: Interplay Theory and Experiment"/congresso\_luogo:Pisa, Italy/congresso\_data:23-27 Settembre 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

### **87)-Nonlinear Electric and Magnetic Optical Properties and new Spectroscopies**

Antonio Rizzo

*Tenth International Conference on Relativistic Effects in Heavy Elements - Chemistry and Physics (REHE-2012), Corrientes, Argentina, 12-16 Settembre 2012*

<http://www.cnr.it/prodotto/i/300361>

info:cnr-pdr/source/autori:Antonio Rizzo/congresso\_nome:Tenth International Conference on Relativistic Effects in Heavy Elements - Chemistry and Physics (REHE-2012)/congresso\_luogo:Corrientes, Argentina/congresso\_data:12-16 Settembre 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

### **88)-Chirality: in silico spectroscopies turning into novel experiments**

Antonio Rizzo

*Theory and Applications of Computational Chemistry - (TACC-2012), Pavia, Italy, 2-7 Settembre 2013*

<http://www.cnr.it/prodotto/i/300365>

info:cnr-pdr/source/autori:Antonio Rizzo/congresso\_nome:Theory and Applications of Computational Chemistry - (TACC-2012)/congresso\_luogo:Pavia, Italy/congresso\_data:2-7 Settembre 2013/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

### **89)-NON-LINEAR SPECTROSCOPIES AND CHIRALITY**

Antonio Rizzo

*Primo Congresso Nazionale della Divisione di Chimica Teorica e Computazionale della Società Chimica Italiana, Pisa, Italia, 22-23 Febbraio, 2012*

<http://www.cnr.it/prodotto/i/300386>

info:cnr-pdr/source/autori:Antonio Rizzo/congresso\_nome:Primo Congresso Nazionale della Divisione di Chimica Teorica e Computazionale della Società Chimica Italiana/congresso\_luogo:Pisa, Italia/congresso\_data:22-23 Febbraio, 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

### **90)-Photocatalytic nanostructured TiO<sub>2</sub> for protection of porous and compact stone**

A. Pagliarulo; F. Petronella; A. Licciulli; A. Rocca; D. Diso; A. Calia; M. Lettieri; D. Colangiuli; A. Agostiano; M. L. Curri; R. Comparelli  
SUBJECTTiO<sub>2</sub> nanocrystals  
SUBJECThydrophilic and hydrophobic treatments  
SUBJECTcalcareous stones  
SUBJECTcultural heritage.

*12th International Congress on the Deterioration and Conservation of Stone, New York, 22 - 26 October 2012*

<http://iscs.icomos.org/pdf-files/NewYorkConf/pagletal.pdf>

info:cnr-pdr/source/autori:A. Pagliarulo, F. Petronella, A. Licciulli, A. Rocca, D. Diso, A. Calia, M. Lettieri, D. Colangiuli, A. Agostiano, M. L. Curri, R. Comparelli/congresso\_nome:12th International Congress on the Deterioration and Conservation of Stone/congresso\_luogo:New York/congresso\_data:22 - 26 October 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**91)-Polarization properties of SERS from randomly oriented molecules on gold nanowires**

P. G. Gucciardi; B. Fazio; C. D'Andrea; A. Irrera; F. Bonaccorso; G. Calogero; C. Vasi; M. Allegrini; A. Toma; D. Chiappe; C. Martella; F. Buatier de Mongeot  
*NFO 12, San Sebastian, 3 - 7 september 2012*  
<http://www.cnr.it/prodotto/i/301906>

info:cnr-pdr/source/autori:P. G. Gucciardi, B. Fazio, C. D'Andrea, A. Irrera, F. Bonaccorso, G. Calogero, C. Vasi, M. Allegrini, A. Toma, D. Chiappe, C. Martella, F. Buatier de Mongeot/congresso\_nome:NFO 12/congresso\_luogo:San Sebastian/congresso\_data:3 - 7 september 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**92)-Synthesis and regularization of the statistical distribution functions of the particles inside an asymmetric solitary wave**

Palumbo LJ; Nocera L  
SUBJECTcollisionless plasmasSUBJECTVlasov equationSUBJECTBGK wavesSUBJECTsolitary wavesSUBJECTasymmetrySUBJECTsingular integral equations  
*pp.1-12, 2012*  
<http://puma.isti.cnr.it>

**93)-Method for dimensioning a solar generation system, and the solar generation system obtained**

Lombardo G.;  
*WO2012140575, Internazionale, 2012*  
<http://www.cnr.it/prodotto/i/145003>

**94)-Solar radiation heat absorber for stirling motor**

G. Lombardo;  
*WO201216873, Internazionale, 2012*  
<http://www.cnr.it/prodotto/i/213253>

**95)-Nanomaterial Characterization By Electron Microscopy**

Roberto Comparelli  
*School on "Synthesis and Characterization of Novel Nano-Sized Inorganic Materials", Bari (Italy), 17-22 June*  
<http://www.cnr.it/prodotto/i/312507>

info:cnr-pdr/source/autori:Roberto Comparelli/congresso\_nome:School on "Synthesis and Characterization of Novel Nano-Sized Inorganic Materials"/congresso\_luogo:Bari (Italy)/congresso\_data:17-22 June/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**96)-Dalle proprietà molecolari microscopiche alle grandezze termodinamiche**

Barcaro Giovanni Veracini Carlo Alberto

*Pisa: Edizioni Plus - Pisa University Press, 2012*

[urn:isbn:9788867410088](http://www.isbn.it/9788867410088)

info:cnr-pdr/source/autori:Barcaro Giovanni

Veracini Carlo Alberto/titolo:Dalle proprietà molecolari microscopiche alle grandezze termodinamiche/editore:

/anno:2012

**97)-Branched Polymer Nanosystems: Interaction in solution and applications**

Domenico Lombardo

*SOLEIL Users' Meeting 2012, Palaiseau, (Francia), 18-19 Gennaio 2012*

<http://www.synchrotron-soleil.fr/Workshops/2012/SUM12>

info:cnr-pdr/source/autori:Domenico Lombardo/congresso\_nome:SOLEIL Users' Meeting 2012/congresso\_luogo:Palaiseau, (Francia)/congresso\_data:18-19 Gennaio 2012/anno:2012/pagina\_da:/pagina\_a:/intervallo\_pagine:

**98)-Surface-Functionalized Inorganic Colloidal Nanocrystals in Functional Nanocomposite Materials for Microfabrication**

Ingrosso, Chiara; Striccoli, Marinella; Agostiano, A.; Curri, Maria Lucia  
SUBJECT Bottom-Up approach  
SUBJECT Colloidal nanocrystals  
SUBJECT Colloidal nanoparticles  
SUBJECT Nanocomposite  
SUBJECT Polymer  
SUBJECT Top-Down approach

*Molecules at Work: Selfassembly, Nanomaterials, Molecular Machinery (ed B. Pignataro), edited by B. Pignataro, pp. 263–283. Weinheim: Wiley-VCH Verlag GmbH & Co. KGaA, 2012*

<https://dx.doi.org/10.1002/9783527645787.ch12>

info:cnr-pdr/source/autori:Ingrosso, Chiara; Striccoli, Marinella; Agostiano, A.; Curri, Maria Lucia/titolo:Surface-Functionalized Inorganic Colloidal Nanocrystals in Functional Nanocomposite Materials for Microfabrication/titolo\_volume:Molecules at Work: Selfassembly, Nanomaterials, Molecular Machinery (ed B. Pignataro)/curatori\_volume:B. Pignataro/editore:



/anno:2012

**99)-Inorganic nanohybrids based on bio-polyesters from renewable resources**

E.Passaglia; S.Bronco; F.Signori; F.Cicogna; S.Coiai; W.Oberhauser  
SUBJECTPLA  
composites

*XX Convegno Italiano di Scienze e Tecnologia delle Macromolecole*, pp. 565, Terni (Italy), 4-8/09/2011

[urn:isbn:978-88-95028-83-5](https://nbn-resolving.org/urn:isbn:978-88-95028-83-5)

info:cnr-pdr/source/autori:E.Passaglia, S.Bronco, F.Signori, F.Cicogna, S.Coiai, W.Oberhauser/congresso\_nome:XX Convegno Italiano di Scienze e Tecnologia delle Macromolecole/congresso\_luogo:Terni (Italy)/congresso\_data:4-8/09/2011/anno:2012/pagina\_da:565/pagina\_a:/intervallo\_pagine:565

**100)-Degradation of iodinated contrast media by solar photo-fenton and photocatalysis with supported TiO<sub>2</sub>**

Mascolo G.; Murgolo S.; Lorusso E.; Comparelli R.; Curri M.L.; Gerbasi R.; Visentin F.  
SUBJECT inquinanti organici; processi di ossidazione; trattamento acque

*XIII congresso nazionale di chimica dell ambiente e dei beni culturali*, pp. 51–51, Taranto, 10/09/2012

[http://www.socchimdabc.it/documenti/congresso\\_2012\\_cabc/libro\\_degli\\_atti\\_XIII.pdf](http://www.socchimdabc.it/documenti/congresso_2012_cabc/libro_degli_atti_XIII.pdf)

info:cnr-pdr/source/autori:Mascolo G.; Murgolo S.; Lorusso E.; Comparelli R.; Curri M.L.; Gerbasi R.; Visentin F./congresso\_nome:XIII congresso nazionale di chimica dell ambiente e dei beni culturali/congresso\_luogo:Taranto/congresso\_data:10/09/2012/anno:2012/pagina\_da:51/pagina\_a:51/intervallo\_pagine:51–51