

## Peer-reviewed journal articles

### 1)-Silicon nanowires: Synthesis, optical properties and applications

D'Andrea, Cristiano; José Lo Faro, Maria; Musumeci, Paolo; Fazio, Barbara; Iacona, Fabio; Franzò, Giorgia; Gucciardi, Pietro Giuseppe; Vasi, Cirino S.; Priolo, Francesco; Irrera, AlessiasubjectElectroluminescencesubjectNanowiressubjectPhotoluminescencesubjectSilicon nanostructures

*Physica status solidi. C, Current topics in solid state physics (Print)* 11 (2014): 1622–1625.

<https://dx.doi.org/10.1002/pssc.201400052>

### 2)-The protein irreversible denaturation studied by means of the bending vibrational mode

Mallamace, Domenico; Corsaro, Carmelo; Vasi, Cirino; Vasi, Sebastiano; Dugo, Giacomo; Mallamace, FrancescosubjectProtein denaturationsubjectAmide bendingsubjectLysozymesubjectInfrared spectroscopy

*Physica. A (Print)* 412 (2014): 39–44.

<https://dx.doi.org/10.1016/j.physa.2014.06.007>

### 3)-Thermodynamic properties of bulk and confined water

Mallamace, Francesco; Corsaro, Carmelo; Mallamace, Domenico; Vasi, Sebastiano; Vasi, Cirino; Stanley, H. Eugene

*The Journal of chemical physics* 141 (2014).

<https://dx.doi.org/10.1063/1.4895548>

### 4)-Gold dimer nanoantenna with slanted gap for tunable LSPR and improved SERS

Kessentini S.; Barchiesi D.; D'Andrea C.; Toma A.; Guillot N.; Di Fabrizio E.; Fazio B.; Marago O.M.; Gucciardi P.G.; Lamy De La Chapelle M.

*Journal of physical chemistry. C. (Online)* 118 (2014): 3209–3219.

<https://dx.doi.org/10.1021/jp409844y>

### 5)-The influence of water on protein properties

Mallamace, Francesco; Baglioni, Piero; Corsaro, Carmelo; Chen, Sow-Hsin; Mallamace, Domenico; Vasi, Cirino; Stanley, H. Eugene

*The Journal of chemical physics* 141 (2014).

<https://dx.doi.org/10.1063/1.4900500>

### 6)-Unconventionally shaped chromonic liquid crystals formed by novel silver(I) complexes

Pucci, Daniela; Mendiguchia, Barbara Sanz; Tone, Caterina Maria; Szerb, Elisabeta Ildyko; Ciuchi, Federica; Gao, Min; Ghedini, Mauro; Crispini, Alessandrasubjectchromonic liquid crystalsubjectsilver complexes

*Journal of materials chemistry c* 2 (2014): 8780–8788.

<https://dx.doi.org/10.1039/C4TC01736F>

**7)-Probing cavitand-organosilane hybrid bilayers via Sum Frequency Vibrational Spectroscopy**

Arianna Aprile; Pasquale Pagliusi; Federica Ciuchi; Maria Penelope De Santo; Roberta Pinalli; Enrico Dalcanal  
subject hybrid bilayers  
subject Sum-Frequency Vibrational Spectroscopy  
*Langmuir (Online)* 30 (2014): 12843–12849.  
<https://dx.doi.org/10.1021/la503150z>

**8)-Is electrospray emission really due to columbic forces?**

Aliotta, Francesco; Calandra, Pietro; Pochylski, Mikolai; Ponterio, Rosina C.; Salvato, Gabriele; Vasi, Cirino  
*AIP advances* 4 (2014).  
<https://dx.doi.org/10.1063/1.4894800>

**9)-Electro-osmotic flow in coated nanocapillaries: A theoretical investigation**

Marini Bettolo Marconi U.; Monteferrante M.; Melchionna S.  
subject electro-osmosis  
subject nano capillaries  
subject coating  
*PCCP. Physical chemistry chemical physics (Print)* 16 (2014): 25473–25482.  
<https://dx.doi.org/10.1039/c4cp03680h>

**10)-Electroosmotic flow in polymer-coated slits: a joint experimental/simulation study**

Monteferrante M.; Melchionna S.; Marconi U.M.B.; Cretich M.; Chiari M.; Sola L.  
subject electro-osmosis  
subject nanocapillary  
subject coating  
*Microfluidics and nanofluidics (Internet)* (2014).  
<https://dx.doi.org/10.1007/s10404-014-1444-5>

**11)-The OPEP coarse-grained protein model: from single molecules, amyloid formation, and suspension in a crowded environment to RNA/DNA complexes**

F. Sterpone; S. Melchionna; P. Tuffery; S. Pasquali; N. Mousseau; T. Cragolini; Y. Chebaro; J.-F. Saint-Pierre; M. Kalimeri; A. Barducci; Y. Laurin; A. Tek; M. Baaden; P.H. Nguyen; P. Derreumaux  
subject protein simulation  
subject coarse-graining  
*Chemical Society reviews (Print)* 43 (2014): 4871–4893.  
<http://www.cnr.it/prodotto/i/289804>

info:cnr-pdr/source/autori:F. Sterpone, S. Melchionna, P. Tuffery, S. Pasquali, N. Mousseau, T. Cragolini, Y. Chebaro, J.-F. Saint-Pierre, M. Kalimeri, A. Barducci, Y. Laurin, A. Tek, M. Baaden, P.H. Nguyen, P. Derreumaux/titolo:The OPEP coarse-grained protein model: from single molecules, amyloid formation, and suspension in a crowded environment to RNA/DNA complexes/

**12)-Lattice Boltzmann modeling of water-like fluids**

S. Succi; N. Moradi; A. Greiner; S. Melchionna  
subject lattice Boltzmann  
subject water  
subject modeling  
*Frontiers in physics* 2 (2014): 1–14.  
<http://www.cnr.it/prodotto/i/289806>

info:cnr-pdr/source/autori:S. Succi, N. Moradi, A. Greiner, S. Melchionna/titolo:Lattice Boltzmann modeling of water-like fluids/

**13)-Steric modulation of ionic currents in DNA translocation through nanopores**

V. Mazzone; S. Melchionna; U. Marini Bettolo Marconi/subjectDNA translocations/subjectsteric modulation

*Journal of statistical physics* (2014).

<http://www.cnr.it/prodotto/i/289807>

info:cnr-pdr/source/autori:V. Mazzone, S. Melchionna, U. Marini Bettolo Marconi,/titolo:Steric modulation of ionic currents in DNA translocation through nanopores/

**14)-On the role of internal water on protein thermal stability: the case of homologous G-domains**

O. Rahaman; M. Kalimeri; S. Melchionna; J. Henin; F. Sterpone/subjectprotein stability/subjectinternal water

*The journal of physical chemistry. B* (2014).

<http://www.cnr.it/prodotto/i/289808>

info:cnr-pdr/source/autori:O. Rahaman, M. Kalimeri, S. Melchionna, J. Henin, F. Sterpone/titolo:On the role of internal water on protein thermal stability: the case of homologous G-domains/

**15)-A hydro-kinetic scheme for the dynamics of hydrogen bonds in water-like fluids**

N. Moradi; A. Greiner; S. Melchionna; F. Rao; S. Succi

*Physical chemistry chemical physics (Online)* 16 (2014): 15510–15518.

<https://dx.doi.org/10.1039/C4CP00921E>

**16)-Lattice Boltzmann method for mixtures at variable Schmidt number**

Monteferrante M.; Melchionna S.; Marconi U.M.B./subjectlattice boltzmann/subjectmixtures/subjectSchmidt number

*The Journal of chemical physics* 141 (2014).

<https://dx.doi.org/10.1063/1.4885719>

**17)-Kinetic density functional theory: A microscopic approach to fluid mechanics**

Marconi U.M.B.; Melchionna S./subjectdynamical density functional theory/subjectelectrokinetic/subjectKinetic theory

*Communications in Theoretical Physics* 62 (2014): 596–606.

<https://dx.doi.org/10.1088/0253-6102/62/4/17>

**18)-Two-dimensional plasmonic superlattice based on Au nanoparticles self-assembling onto a functionalized substrate**

Corricelli, Michela; Depalo, Nicoletta; Fanizza, Elisabetta; Altamura, Davide; Giannini, Cinzia; Siliqi, Dritan; Di Mundo, Rosa; Palumbo, Fabio; Kravets, Vasily G.; Grigorenko, Alexander N.; Agostiano, A.; Striccoli, Marinella; Curri, Maria Lucia

*Journal of physical chemistry. C* 118 (2014): 7579–7590.

<https://dx.doi.org/10.1021/jp4126792>

**19)-Optical and electrical characterization of a gold nanoparticle dispersion in a chiral liquid crystal matrix**

Melissa Infusino; Antonio De Luca; Federica Ciuchi; Andrei Ionescu; Nicola Scaramuzza  
Giuseppe Strangi

*Journal of materials science (Dordr., Online)* 49 (2014): 1805–1811.

<https://dx.doi.org/10.1007/s10853-013-7868-6>

**20)-Supramolecular chirality induced by a weak thermal force**

Placido Mineo; Valentina Villari; Emilio Scamporrino; Norberto Micali

*Soft matter (Print)* 10 (2014): 44–47.

<https://dx.doi.org/10.1039/c3sm52322e>

**21)-Oligomers based on weak hydrogen bond networks: a rotational study of the tetramer of difluoromethane**

Feng, Gang; Evangelisti, Luca; Cacelli, Ivo; Carbonaro, Laura; Prampolini, Giacomo;  
Caminati, Walther

*Chemical communications (Lond., 1996, Print)* 50 (2014): 171–173.

<https://dx.doi.org/10.1039/c3cc47206j>

**22)-Three dimensional visualization of engineered bone and soft tissue by combined x-ray micro-diffraction and phase contrast tomography**

Cedola, A (Cedola, Alessia)[ 1 ]; Campi, G (Campi, Gaetano)[ 2 ]; Pelliccia, D (Pelliccia, Daniele)[ 3 ]; Bukreeva, I (Bukreeva, Inna)[ 1 ]; Fratini, M (Fratini, Michela)[ 4 ]; Burghammer, M (Burghammer, Manfred)[ 5 ]; Rigon, L (Rigon, Luigi)[ 6,7 ]; Arfelli, F (Arfelli, Fulvia)[ 6,7 ]; Chen, RC (Chen, Rong Chang)[ 7 ]; Dreossi, D (Dreossi, Diego)[ 8 ]; Sodini, N (Sodini, Nicola)[ 8 ]; Mohammadi, S (Mohammadi, Sara)[ 8,9 ]; Tromba, G (Tromba, Giuliana)[ 8 ]; Cancedda, R (Cancedda, Ranieri)[ 10,11 ]; Mastrogiacomo, M (Mastrogiacomo, Maddalena)[ 10,11 ]

*Physics in medicine & biology (Online)* 59 (2014): 189–201.

<http://www.cnr.it/prodotto/i/276861>

info:cnr-pdr/source/autori:Cedola, A (Cedola, Alessia)[ 1 ]; Campi, G (Campi, Gaetano)[ 2 ]; Pelliccia, D (Pelliccia, Daniele)[ 3 ]; Bukreeva, I (Bukreeva, Inna)[ 1 ]; Fratini, M (Fratini, Michela)[ 4 ]; Burghammer, M (Burghammer, Manfred)[ 5 ]; Rigon, L (Rigon, Luigi)[ 6,7 ]; Arfelli, F (Arfelli, Fulvia)[ 6,7 ]; Chen, RC (Chen, Rong Chang)[ 7 ]; Dreossi, D (Dreossi, Diego)[ 8 ]; Sodini, N (Sodini, Nicola)[ 8 ]; Mohammadi, S (Mohammadi, Sara)[ 8,9 ]; Tromba, G (Tromba, Giuliana)[ 8 ]; Cancedda, R (Cancedda, Ranieri)[ 10,11 ]; Mastrogiacomo, M (Mastrogiacomo, Maddalena)[ 10,11 ]/titolo:Three dimensional visualization of engineered bone and soft tissue by combined x-ray micro-diffraction and phase contrast tomography/

**23)-Conformationally disordered crystals and their influence on material properties: The cases of isotactic polypropylene, isotactic poly(1-butene), and poly(L-lactic acid)**

Mariacristina Cocca; René Androsch; Maria Cristina Righetti; Mario Malinconico; Maria Laura Di Lorenzo  
subjectCrystal polymorphism; Conformational disorder; Condis mesophase; Isotactic polypropylene; Isotactic poly(1-butene); Poly(L-lactic acid)

*Journal of molecular structure (Print)* (2014).

<https://dx.doi.org/10.1016/j.molstruc.2014.02.038>

**24)-Rigid amorphous fraction and melting behavior of poly(ethylene terephthalate)**

Maria Cristina Righetti; Michele Laus; Maria Laura Di Lorenzo

*Colloid and polymer science (Print)* 292 (2014): 1365–1374.

<https://dx.doi.org/10.1007/s00396-014-3198-8>

**25)-The lipidome of the photosynthetic bacterium Rhodobacter sphaeroides R26 is affected by cobalt and chromate ions stress**

Calvano C.D.; Italiano F.; Catucci L.; Agostiano A.; Cataldi T.R.I.; Palmisano F.; Trotta M.  
subjectLipidomicssubjectMass spectrometrysubjectMetal

stresssubjectPhotosynthesissubjectRhodobacter sphaeroides

*BioMetals (Oxf.)* 27 (2014): 65–73.

<https://dx.doi.org/10.1007/s10534-013-9687-2>

**26)-Rhodobacter sphaeroides adaptation to high concentrations of cobalt ions requires energetic metabolism changes**

Volpicella M.; Costanza A.; Palumbo O.; Italiano F.; Leoni C.; Placido A.; Picardi E.; Carella M.; Trotta M.; Ceci L.R.  
subjectBioremediationsubjectHeavy metal stresssubjectNegative selectionsubjectRhodobacter sphaeroidessubjectTranscriptomics

*FEMS microbiology, ecology (print)* 88 (2014): 345–357.

<https://dx.doi.org/10.1111/1574-6941.12303>

**27)-La via latte per l'Europa**

Massimo Trotta  
subjectproteine

*Sapere (Bari)* 80 (2014): 49.

<http://www.cnr.it/prodotto/i/280255>

info:cnr-pdr/source/autori:Massimo Trotta/titolo:La via latte per l'Europa/

**28)-I jeans dall'età della pietra**

Massimo Trotta  
subjectproteine

*Sapere (Bari)* 80 (2014): 49.

<http://www.cnr.it/prodotto/i/280256>

info:cnr-pdr/source/autori:Massimo Trotta/titolo:I jeans dall'età della pietra/

**29)-Polarization-dependent optomechanics mediated by chiral microresonators**

M.G. Donato; J. Hernandez; A. Mazzulla; C. Provenzano; R. Saija; R. Sayed; S. Vasi; A. Magazzu; P. Pagliusi; R. Bartolino; P.G. Gucciardi; O.M. Marago; G. Cipparrone  
subjectchiralitysubjectoptical tweezerssubjectliquid crystalssubjectpolymers  
*Nature communications* 5 (2014): 3656.  
<https://dx.doi.org/10.1038/ncomms4656>

**30)-Proton Conduction in Water Ices under an Electric Field**

Cassone G; Giaquinta PV; Saija F; Saitta AM  
*The journal of physical chemistry. B* 118 (2014): 4419–4424.  
<https://dx.doi.org/10.1021/jp5021356>

**31)-I donatori di sangue blu**

Massimo Trotta  
subjectproteine  
*Sapere (Bari)* 80 (2014): 49.  
<http://www.cnr.it/prodotto/i/280900>

info:cnr-pdr/source/autori:Massimo Trotta/titolo:I donatori di sangue blu/

**32)-The binding of quinone to the photosynthetic reaction centers: kinetics and thermodynamics of reactions occurring at the QB-site in zwitterionic and anionic liposomes**

Fabio Mavelli; Massimo Trotta; Fulvio Ciriaco; Angela Agostiano; Livia Giotta; Francesca Italiano; Francesco Milan  
subjectBacterial photosynthesis; Ligand binding; Protein-lipid interaction  
*European biophysics journal* 43 (2014): 301–315.  
<https://dx.doi.org/10.1007/s00249-014-0963-z>

**33)-Self-organized internal architectures of chiral micro-particles**

Provenzano C.; Mazzulla A.; Pagliusi P.; De Santo M.P.; Desiderio G.; Perrotta I.; Cipparrone G.  
subjectliquid crystalssubjectchiralitysubjectself-assembling  
*APL materials* 2 (2014): 022103.  
<https://dx.doi.org/10.1063/1.4863837>

**34)-Temperature Dependence of the Rigid Amorphous Fraction in Poly(ethylene terephthalate)**

Maria Cristina Righetti; Michele Laus; Maria Laura Di Lorenzo  
*European Polymer Journal* 58 (2014): 60–68.  
<https://dx.doi.org/10.1016/j.eurpolymj.2014.06.005>

**35)-Observation of Migrating Transverse Anderson Localizations of Light in Nonlocal Media**

Marco Leonetti (1,2); Salman Karbasi (3); Arash Mafi (3); Claudio Conti (4)  
*Physical review letters (Print)* 112 (2014): 193902.  
<https://dx.doi.org/10.1103/PhysRevLett.112.193902>

**36)-Dynamic metastability in the two-dimensional Potts ferromagnet**

Miguel Ibáñez Berganza (1); Alberto Petri (2); Pietro Coletti (3)subjectnonequilibrium dynamicssubjectfinite-size effect

*Physical review. E, Statistical, nonlinear, and soft matter physics (Print)* 89 (2014): 052115.

<https://dx.doi.org/10.1103/PhysRevE.89.052115>

**37)-Role of Disorder in the Thermodynamics and Atomic Dynamics of Glasses**

Chumakov, A. I.; Monaco, G.; Fontana, A.; Bosak, A.; Hermann, R. P.; Bessas, D.; Wehinger, B.; Crichton, W. A.; Krisch, M.; Rueffer, R.; Baldi, G.; Carini, G., Jr.; Carini, G.; D'Angelo, G.; Gilioli, E.; Tripodo, G.; Zanatta, M.; Winkler, B.; Milman, V.; Refson, K.; Dove, M. T.; Dubrovinskaia, N.; Dubrovinsky, L.; Keding, R.; Yue, Y. Z.subjectTEMPERATURE HEAT-CAPACITYsubjectBOSON-PEAKsubjectVIBRATIONAL DYNAMICSsubjectVITREOUS SILICASubjectEXCITATIONS

*Physical review letters (Print)* 112 (2014): 025502-1.

<https://dx.doi.org/10.1103/PhysRevLett.112.025502>

**38)-Light focusing in the Anderson regime**

Marco Leonetti (1,2); Salman Karbasi (3); Arash Mafi (3); Claudio Conti (4)subjectLight focusingsubjectAnderson localizationsubjectdisordered optical fibres

*Nature communications* 5 (2014): art\_n\_4534.

<https://dx.doi.org/10.1038/ncomms5534>

**39)-Glass-glass transition during aging of a colloidal clay.**

Roberta Angelini (1,2); Emanuela Zaccarelli (2,3); Flavio Augusto de Melo Marques (4); Michael Sztucki (5); Andrei Fluerasu (6); Giancarlo Ruocco (2,4); Barbara Ruzicka (1,2)subjectphase behaviorsubjectcolloidal claysubjectglass-glas transition

*Nature communications* 5 (2014): art\_n\_4049.

<https://dx.doi.org/10.1038/ncomms5049>

**40)-Structural disorder and anomalous water diffusion in random packing of spheres**

Andrea Gabrielli (1); Silvia Capuani (2); Marco Palombo (3); Vito D.P. Servedio (3), Giancarlo Ruocco (3)

*Bulletin of the American Physical Society* 59 (2014): Abstract ID: BAPS.2014.MAR.B20.15.

<http://meetings.aps.org/link/BAPS.2014.MAR.B20.15>

info:cnr-pdr/source/autori:Andrea Gabrielli (1); Silvia Capuani (2); Marco Palombo (3); Vito D.P. Servedio (3), Giancarlo Ruocco (3)/titolo:Structural disorder and anomalous water diffusion in random packing of spheres/

**41)-Visible-light driven oxidation of gaseous aliphatic alcohols to the corresponding carbonyls via TiO<sub>2</sub> sensitized by a perylene derivative**

Guarisco C.; Palmisano G.; Calogero G.; Ciriminna R.; Di Marco G.; Loddo V.; Pagliaro M.; Parrino F.subjectPerylene-sensitized TiO<sub>2</sub>subjectVisible light photocatalysissubjectAliphatic alcohol oxidation

*Environmental science and pollution research international* (2014): 1–7.

<https://dx.doi.org/10.1007/s11356-014-2546-z>

#### 42)-L'araldica delle proteine

Massimo Trotta<sub>subject</sub>proteine

*Sapere (Bari)* 80 (2014): 44.

<http://www.cnr.it/prodotto/i/284382>

info:cnr-pdr/source/autori:Massimo Trotta/titolo:L'araldica delle proteine/

#### 43)-Variability of the health effects of crystalline silica:Fe speciation in industrial quartz reagents and suspended dusts-insights from XAS spectroscopy.

Di Benedetto F.[1]; D'Acapito F.[2]; Capacci F.[3]; Fornaciai G. [4]; Innocenti M.[4; 5]; Montegrossi G.[6]; Oberhauser W.[5]; Pardi L.A. [7]; Romanelli M. [1]<sub>subject</sub>Crystalline silicasubjectquartzsubjectFe speciationsubjectindustrial samplesubjectreactivity in airsubjectX-ray absorption spectroscopy

*Physics and chemistry of minerals* 41 (2014): 215–225.

<https://dx.doi.org/10.1007/s00269-013-0640-2>

#### 44)-Miller experiments in atomistic computer simulations

Saitta, Antonino Marco; Saija, Franz

*Proceedings of the National Academy of Sciences of the United States of America* 111 (2014): 13768–13773.

<https://dx.doi.org/10.1073/pnas.1402894111>

#### 45)-Wavelength resolved neutron transmission analysis to identify single crystal particles in historical metallurgy

E. Barzagli (1,2); F. Grazzi (1); F. Salvemini (1); A. Scherillo (3,4); H. Sato (5); T. Shinohara (5); T. Kamiyama (6); Y. Kiyonagi (6); A. Tremsin (7); Marco Zoppi (1)<sub>subject</sub>wavelength<sub>subject</sub>single crystal particles

*The European physical journal plus* 129 (2014): 158.

<https://dx.doi.org/10.1140/epjp/i2014-14158-3>

#### 46)-Optical shock waves in silica aerogel

S. Gentilini (1); F. Ghajeri (2); N. Ghofraniha (3); A. Di Falco (2); C. Conti (1,4)

*Optics express* 22 (2014): 1667–1672.

<https://dx.doi.org/10.1364/OE.22.001667>

#### 47)-Observation of an intrinsic nonlinearity in the electro-optic response of freezing relaxors ferroelectrics



D. Pierangeli (1); F. Di Mei (1,2); J. Parravicini (1,3); G.B. Parravicini (4); A.J. Agranat (5); C. Conti (1,6); E. DelRe (1,2)subjectGlass and other amorphous materialssubjectNonlinear opticssubjectMaterials

*Optical materials express* 4 (2014): 1487–1493.

<https://dx.doi.org/10.1364/OME.4.001487>

**48)-Characterization of an amylose-graft-poly(n-butyl methacrylate) copolymer obtained by click chemistry by EPR and SS-NMR spectroscopies**

Borsacchi S.; Calucci L.; Geppi M.; La Terra F.; Pinzino C.; Bertoldo M.subjectAmylosesubjectClick chemistrysubjectGraft copolymerssubjectMAS NMRsubjectNuclear relaxation timesubjectPBMA

*Carbohydrate polymers* 112 (2014): 245–254.

<https://dx.doi.org/10.1016/j.carbpol.2014.05.086>

**49)-Small-cluster renormalization group in Ising and Blume-Emery-Griffiths models with ferromagnetic, antiferromagnetic, and quenched disordered magnetic interactions**

F. Antenucci (1,2); A. Crisanti (2,3); L. Leuzzi (1,2)subjectAntiferromagnetism

*Physical review. E, Statistical, nonlinear, and soft matter physics (Print)* 90 (2014): 012112.

<https://dx.doi.org/10.1103/PhysRevE.90.012112>

**50)-Critical Study of Hierarchical Lattice Renormalization Group in Magnetic Ordered and Quenched Disordered Systems: Ising and Blume-Emery-Griffiths Models**

F. Antenucci (1,2); A. Crisanti (1,3); L. Leuzzi (1,2)subjectHierarchical latticesubjectRenormalization groupssubjectCritical behaviorsubjectMigdal-KadanoffsubjectFerromagnetsubjectSpin-glasssubjectIsing modelsubjectBlume-Emery-Griffiths model

*Journal of statistical physics* 155 (2014): 909–931.

<https://dx.doi.org/10.1007/s10955-014-0977-z>

**51)-Anomalous metastability in a temperature-driven transition**

M. Ibáñez Berganza (1); P. Coletti (2); A. Petri (3)

*Europhysics letters (Print)* 106 (2014): 56001.

<https://dx.doi.org/10.1209/0295-5075/106/56001>

**52)-Dual aging behaviour in a clay-polymer dispersion**

Zulian L.; Augusto De Melo Marques F.; Emilitti E.; Ruocco G.; Ruzicka B.subjectLaponite  
*Soft matter (Online)* 10 (2014): 4513–4521.

<https://dx.doi.org/10.1039/c4sm00172a>

**53)-Modulation of current through a nanopore induced by a charged globule: implications for DNA-docking**

Mauro Chinappi (1); Carlo Massimo Casciola (1,2); Fabio Cecconi (3); Umberto Marini Bettolo Marconi (4,5); Simone Melchionna (6)subjectSOLID-STATE NANOPORES; TRANSLOCATION; TRANSPORT; DYNAMICS

*Europhysics letters (Online)* 108 (2014): 46002.

<https://dx.doi.org/10.1209/0295-5075/108/46002>

**54)-Aging behavior of the localization length in a colloidal glass**

Angelini, R.; Madsen, A.; Fluerasu, A.; Ruocco, G.; Ruzicka, B.subjectAging behavior; Colloidal glass; Localization length

*Colloids and surfaces. A, Physicochemical and engineering aspects (Print)* 460 (2014): 118–122.

<https://dx.doi.org/10.1016/j.colsurfa.2014.03.087>

**55)-Neutron diffraction study of aqueous Laponite suspensions at the NIMROD diffractometer**

Tudisca, V.; Bruni, F.; Scoppola, E.; Angelini, R.; Ruzicka, B.; Zulian, L.; Soper, A. K.; Ricci, M. A.subjectLAPONITE DISPERSIONS; GELS; SUSPENSIONS; POLYMER; STATES; CLAY

*Physical review. E, Statistical, nonlinear, and soft matter physics (Print)* 90 (2014).

<https://dx.doi.org/10.1103/PhysRevE.90.032301>

**56)-Run-and-tumble particles in speckle fields**

Paoluzzi, M.; Di Leonardo, R.; Angelani, L.subjectactive mattersubjectnumerical simulationssubjectstatistical mechanics

*Journal of physics. Condensed matter (Print)* 26 (2014).

<https://dx.doi.org/10.1088/0953-8984/26/37/375101>

**57)-First-passage time of run-and-tumble particles.**

Angelani, L; Di Leonardo, R; Paoluzzi, MsubjectActive particles; Bacterial motion; Cellular process; Constant gradients; External fields; External force field; Intracellular transport; Mean first-passage time

*The European physical journal. E, Soft matter (Online)* 37 (2014): 15.

<https://dx.doi.org/10.1140/epje/i2014-14059-4>

**58)-Imaging tissue regeneration/degeneration by combined X-ray micro-diffraction and phase contrast micro-tomography**

Campi, G.; Bukreeva, I.; Fratini, M.; Mastrogiacomo, M.; Cedola, A.

*Journal of tissue engineering and regenerative medicine* 8 (2014): 66–67.

<http://www.cnr.it/prodotto/i/288711>

info:cnr-pdr/source/autori:Campi, G.; Bukreeva, I.; Fratini, M.; Mastrogiacomo, M.; Cedola, A./titolo:Imaging tissue regeneration/degeneration by combined X-ray micro-diffraction and phase contrast micro-tomography/

**59)-Vascular network visualization in bone tissue engineered construct by synchrotron X-ray microtomography**

Spano, R.;

*Journal of tissue engineering and regenerative medicine* 8 (2014): 211–211.

<http://www.cnr.it/prodotto/i/288717>

info:cnr-pdr/source/autori:Spano, R.; Bukreeva, I.; Campi, G.; Tromba, G.; Brun, F.; Cedola, A.; Cancedda, R.; Mastrogiacomo, M./titolo:Vascular network visualization in bone tissue engineered construct by synchrotron X-ray microtomography/

**60)-Study of the vascular network in the spinal cord using advanced techniques**

Fratini, M.; Bukreeva, I.; Campi, G.; Spano', R.; Mastrogiacomo, M.; Brun, F.; Tromba, G.; Giove, F.; Cedola, A.

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**61)-RNA-Based Regulation: Dynamics and Response to Perturbations of Competing RNAs**

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**62)-Searching for feasible stationary states in reaction networks by solving a Boolean constraint satisfaction problem**

Seganti, A.; De Martino, A.; Ricci-Tersenghi, F.

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**63)-Identifying All Moiety Conservation Laws in Genome-Scale Metabolic Networks**

De Martino, Andrea; De Martino, Daniele; Mulet, Roberto; Pagnani, Andrea

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Daniele De Martino 1; 3; Fabrizio Capuani 2; 3; Andrea De Martino 1; 2

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**65)-Linear and circular dichroism in porphyrin J-aggregates probed by polarization modulated scanning near-field optical microscopy**

Tantussi, Francesco; Fuso, Francesco; Allegrini, Maria; Micali, Norberto; Occhiuto, Ilaria Giuseppina; Scolaro, Luigi Monsu; Patane, Salvatore  
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**66)-SERS Enhancement and Field Confinement in Nanosensors Based on Self-Organized Gold Nanowires Produced by Ion-Beam Sputtering**

D'Andrea, C.; Fazio, B.; Gucciardi, P. G.; Giordano, M. C.; Martella, C.; Chiappe, D.; Toma, A.; de Mongeot, F. Buatier; Tantussi, F.; Vasanthakumar, P.; Fuso, F.; Allegrini, M.  
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C. Maggi; M. Paoluzzi; N. Pellicciotta; A. Lepore; L. Angelani; R. Di Leonardo  
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subjectTemperature ChaossubjectSpin-Glass

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Lucibello C.; Morone F.; Rizzo T.subjectRandom Ising Chains  
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**74)-Replica trick for rare samples**

Rizzo; TommasosubjectReplica trickssubjectlarge Deviationssubjectrare samples  
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**82)-New insight into the contrast in diffusional kurtosis images: Does it depend on magnetic susceptibility?**

Palombo M.; Gentili S.; Bozzali M.; Macaluso E.; Capuani S.subjectDKIsubjectDTIsubjectHuman brainsubjectMagnetic susceptibilitiesubjectWhite matter  
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**83)-Structural and microscopic relaxations in a colloidal glass**

Flavio Augusto de Melo Marques (a); Roberta Angelini (b,c); Emanuela Zaccarelli (c,d); Bela Farago (e); Beatrice Ruta (f); Giancarlo Ruocco (a,c); Barbara Ruzicka (b,c)subjectcolloidal glass

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**84)-Lattice Boltzmann method as a computational framework for multiscale haemodynamics**

Pontrelli, Giuseppe; Halliday, Ian; Melchionna, Simone; Spencer, Tim J.; Succi, Saurosubjecthaemodynamicsubjectred blood cellsubjectglycocalyxsubjectwall shear stresssubjectlattice Boltzmann method

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**87)-Dimensional scale effects on surface enhanced Raman scattering efficiency of self-assembled silver nanoparticle clusters**

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Cassone, Giuseppe; Giaquinta, Paolo V; Saija, Franz; Saitta, A Marco

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**91)-The glassy state - Magnetically viewed from the frozen end**

Jug G.; Paliienko M.; Bonfanti S.subjectCrystalline-like ordering in glassessubjectLow temperature physicssubjectMagnetic effects in non-magnetic glassessubjectOxide and organic glasses (non-metallic)subjectTunneling systems in glasses

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Prestipino, Santi; Saija, Franz  
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*PCCP. Physical chemistry chemical physics (Print)* 16 (2014): 8409–8417.  
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Brezin E.; Parisi G.; Ricci-Tersenghi F.subjectCross-over to shortrangesubjectCritical phenomenasubjectPercolation with long-range interactions  
*Journal of statistical physics* 157 (2014): 855–868.  
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Lage-Castellanos, A.; Mulet, R.; Ricci-Tersenghi, F.  
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*Physical review. B, Condensed matter and materials physics* 89 (2014).

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Angelini M.C.; Parisi G.; Ricci-Tersenghi F.

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<https://dx.doi.org/10.1103/PhysRevE.89.062120>

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Baity-Jesi M.; Banos R.A.; Cruz A.; Fernandez L.A.; Gil-Narvion J.M.; Gordillo-Guerrero A.; Iniguez D.; Maiorano A.; Mantovani F.; Marinari E.; Martin-Mayor V.; Monforte-Garcia J.; Munoz Sudupe A.; Navarro D.; Parisi G.; Perez-Gaviro S.; Pivanti M.; Ricci-Tersenghi F.; Ruiz-Lorenzo J.J.; Schifano S.F.; Seoane B.; Tarancon A.; Tripiccion R.; Yllanes D.

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Decelle A.; Ricci-Tersenghi F.

*Physical review letters (Print)* 112 (2014).

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CarlosubjectSpin glass

*Computer physics communications* 185 (2014): 550–559.

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**104)-On the ergodicity of supercooled molecular glass-forming liquids at the dynamical arrest: the o-terphenyl case**

Mallamace, Francesco; Corsaro, Carmelo; Leone, Nancy; Villari, Valentina; Micali, Norberto; Chen, Sow-Hsin

*Scientific reports (Nature Publishing Group) 4 (2014): n. 3447.*

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**105)-A star polymer based on a polyethylene glycol with a porphyrinic core as a photosensitizing agent for application in photodynamic therapy: tests in vitro on human erythrocytes**

Mineo, Placido; Faggio, Caterina; Micali, Norberto; Scamporrino, Emilio; Villari, Valentina

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**106)-Control of the Structural Stability of alpha-Crystallin under Thermal and Chemical Stress: The Role of Carnosine**

Villari, Valentina; Attanasio, Francesco; Micali, Norberto

*The journal of physical chemistry. B 118 (2014): 13770–13776.*

<https://dx.doi.org/10.1021/jp5092009>

**107)-Nanoassembly of an Amphiphilic Cyclodextrin and Zn(II)-Phthalocyanine with Potential for Photodynamic Therapy**

CONTE CLAUDIA; SCALA ANGELA; SIRACUSANO GABRIEL; LEONE NANCY.; PATANE' SALVATORE; UNGARO FRANCESCA; MIRO AGNESE; SCIORTINO MARIA TERESA; QUAGLIA FABIANA; MAZZAGLIA ANTONINO

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**108)-Volumetric investigation of the ternary system ethanol plus dimethylformamide plus cyclohexane at 298.15 K**

Gianni, P.; Lepori, L.; Matteoli, E.; Righetti, M. C.subjectExcess volumesubjectApparent molar volumesubjectTernary mixturesubjectDensitysubjectAssociation

*Fluid phase equilibria 368 (2014): 112–119.*

<https://dx.doi.org/10.1016/j.fluid.2014.01.046>

**109)-Cysteine on TiO<sub>2</sub>(110): A Theoretical Study by Reactive Dynamics and Photoemission Spectra Simulation**

Li, Cui; Monti, Susanna; Agren, Hans; Carravetta, Vincenzosubjectbioinorganic interfacesubjectcysteinesubjectrutilesubjectreactive molecular

dynamicsubjectphotoemissionsubjectXPSsubjectcomputational modelingsubjecttheory

*Langmuir 30 (2014): 8819–8828.*

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**110)-A Computational Study of the Adsorption and Reactive Dynamics of Diglycine on Cu(110)**

Monti, Susanna; Carravetta, Vincenzo; Li, Cui; Agren, Hanssubjecttheorysubjectcomputational chemistrysubjectbioinorganic interfacessubjectglycinesubjectcoppersubjectreactive molecular dynamics

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**111)-Polymeric scaffolds for cardiac tissue engineering: requirements and fabrication technologies**

Boffito, Monica; Sartori, Susanna; Ciardelli, Gianlucasubjectcardiac tissue engineeringssubjectconventional techniquesubjectrapid prototypingsubjectsscaffolds

*Polymer international* 63 (2014): 2–11.

<https://dx.doi.org/10.1002/pi.4608>

**112)-Bioinspired porous membranes containing polymer nanoparticles for wound healing**

Ferreira, Ana M.; Mattu, Clara; Ranzato, Elia; Ciardelli, Gianlucasubjectcollagensubjectnanoparticlessubjectplasmasubjectporous membranesubjectwound healing

*Journal of biomedical materials research. Part A* 102 (2014): 4394–4405.

<https://dx.doi.org/10.1002/jbm.a.35121>

**113)-Absorption spectra and photovoltaic characterization of chlorophyllins as sensitizers for dye-sensitized solar cells**

Calogero G.; Citro I.; Crupi C.; Di Marco G.subjectChlorophyll derivativesubjectChlorophyllinssubjectDye-sensitized solar cellssubjectNatural dyessubjectSoretssubjectTitanium oxide nanoparticles

*Spectrochimica acta. Part A, Molecular and biomolecular spectroscopy (Print)* 132 (2014): 477–484.

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Calogero G.; Citro I.; Di Marco G.; Armeli Minicante S.; Morabito M.; Genovese G.subjectDye-sensitized solar cellssubjectNatural dyessubjectSeaweedssubjectSolar energysubjectUndaria pinnatifidasubjectVenice Lagoon

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**115)-UV-VIS-NIR spectral optical properties of silver iodide borate glasses**

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*Journal of physics. Conference series (Online)* 508 (2014).

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Di Marco, Gaetano; Bartolotta, Antonino; Bonaccorso, Francesco; Caramori, Stefano; Calogero, Giuseppe; Palmisano, Leonardo

*International Journal of Photoenergy (Print)* (2014).

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**117)-Draft genome sequence of *Sphingobium* sp. strain ba1, resistant to kanamycin and nickel ions**

Manzari, Caterina; Chiara, Matteo; Costanza, Alessandra; Leoni, Claudia; Volpicella, Mariateresa; Picardi, Ernesto; D'Erchia, Anna Maria; Placido, Antonio; Trotta, Massimo; Horner, David S.; Pesole, Graziano; Ceci, Luigi R.subjectantibiotic resistancesubjectmetal resistancesubjecttransposon

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Vaara, Juha; Rizzo, Antonio; Kauczor, Joanna; Norman, Patrick; Coriani, Sonia

*The Journal of chemical physics* 140 (2014): 134103.

<https://dx.doi.org/10.1063/1.4869849>

**119)-On the origin of the very strong two-photon activity of squaraine dyes - a standard/damped response theory study**

Alam, Md. Mehboob; Chattopadhyaya, Mausumi; Chakrabarti, Swapan; Rizzo, Antonio

*PCCP. Physical chemistry chemical physics (Print)* 16 (2014): 8030–8035.

<https://dx.doi.org/10.1039/c3cp55485f>

**120)-Two-Photon Circular Dichroism of an Axially Dissymmetric Diphosphine Ligand with Strong Intramolecular Charge Transfer**

Diaz, Carlos; Echevarria, Lorenzo; Rizzo, Antonio; Hernandez, Florencio E.

*The journal of physical chemistry. A* 118 (2014): 940–946.

<https://dx.doi.org/10.1021/jp4119265>

**121)-Erratum: Thermodynamic properties of bulk and confined water (J. Chem. Phys.(2014) 141 (18C504))**

Mallamace, Francesco; Corsaro, Carmelo; Mallamace, Domenico; Vasi, Sebastiano; Vasi, Cirino S.; Stanley, Harry Eugene

*The Journal of chemical physics* 141 (2014).

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**122)-Spectroscopic and structural characterization of pure and FeCl<sub>3</sub>-containing tri-n-butyl phosphate**

Calandra; P.; De Caro; T.; Caschera; D.; Lombardo; D.; Todaro; L.c; Turco Liveri; V.  
*Colloid & polymer science (Internet)* 293 (2014): 597–603.

<http://www.cnr.it/prodotto/i/300880>

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**123)-Analysis of the viscoelastic properties of the human cornea using scheinplflug imaging in inflation experiment of eye globes**

Lombardo, Giuseppe; Serrao, Sebastiano; Rosati, Marianna L.; Lombardo, Marco  
*PloS one* 9 (2014).

<https://dx.doi.org/10.1371/journal.pone.0112169>

**124)-Modeling dendrimers charge interaction in solution: Relevance in biosystems**

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*Biochemistry Research International (Online)* 2014 (2014): 1–10.

<https://dx.doi.org/10.1155/2014/837651>

**125)-Biomechanical changes in the human cornea after transepithelial corneal crosslinking using iontophoresis**

Lombardo, Marco; Serrao, Sebastiano; Rosati, Marianna; Ducoli, Pietro; Lombardo, Giuseppe  
*Journal of cataract and refractive surgery* 40 (2014): 1706–1715.

<https://dx.doi.org/10.1016/j.jcrs.2014.04.024>

**126)-Preliminary investigation of corneal wavefront aberration following femtosecond laser clear corneal incision for cataract surgery**

Serrao, Sebastiano; Lombardo, Giuseppe; Schiano-Lomoriello, Domenico; Rosati, Marianna; Lombardo, MarcosubjectCataractssubjectCorneal incisionsubjectCorneal wave frontssubjectFemtosecond

*European Journal of Ophthalmology (Testo stamp.)* 24 (2014): 842–849.

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**127)-Technical Factors Influencing Cone Packing Density Estimates in Adaptive Optics Flood Illuminated Retinal Images**

Lombardo, Marco; Serrao, Sebastiano; Lombardo, Giuseppe  
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**128)-ADAPTIVE OPTICS IMAGING OF PARAFOVEAL CONES IN TYPE 1 DIABETES**

Lombardo, Marco; Parravano, Mariacristina; Lombardo, Giuseppe; Varano, Monica; Boccassini, Barbara; Stirpe, Mario; Serrao, Sebastiano  
subjectadaptive optics retinal imaging  
subjectdiabetic retinopathy  
subjectcone density  
subjectcentral retinal thickness  
*Retina (Philadelphia, Pa.)* 34 (2014): 546–557.

<http://www.cnr.it/prodotto/i/301088>

info:cnr-pdr/source/autori:Lombardo, Marco; Parravano, Mariacristina; Lombardo, Giuseppe; Varano, Monica; Boccassini, Barbara; Stirpe, Mario; Serrao, Sebastiano/titolo:ADAPTIVE OPTICS IMAGING OF PARAFOVEAL CONES IN TYPE 1 DIABETES/

**129)-Analysis of femtosecond laser assisted capsulotomy cutting edges and manual capsulorhexis using environmental scanning electron microscopy**

Serrao, Sebastiano; Lombardo, Giuseppe; Desiderio, Giovanni; Buratto, Lucio; Schiano-Lomoriello, Domenico; Pileri, Marco; Lombardo, Marco

*Journal of Ophthalmology (Print)* 2014 (2014).

<https://dx.doi.org/10.1155/2014/520713>

**130)-Effect of femtosecond laser-created clear corneal incision on corneal topography**

Serrao, Sebastiano; Lombardo, Giuseppe; Schiano-Lomoriello, Domenico; Ducoli, Pietro; Rosati, Marianna; Lombardo, Marco

*Journal of cataract and refractive surgery* 40 (2014): 531–537.

<https://dx.doi.org/10.1016/j.jcrs.2013.11.027>

**131)-Structural transformations, elastic moduli and thermal expansion of permanently compacted B2O3 glasses**

Carini G.; Carini Jr. G.; D'Angelo G.; Tripodo G.; Salvato G.; Vasi C.; Gilioli E.  
subjectElastic modulus  
subjectGlasses  
subjectThermal expansion

*Journal of non-crystalline solids* 401 (2014): 40–43.

<https://dx.doi.org/10.1016/j.jnoncrysol.2013.12.024>

**132)-Electrically induced birefringence in nanoparticle dispersions for electrorheological applications**

Pochylski, Mikolaj; Calandra, Pietro; Aliotta, Francesco; Ponterio, Rosina C.  
subjectinduced birefringence  
subjecttitanium dioxides  
subjectelectric dipole moments  
subjectcolloidal dispersion

*Journal of physics. D, Applied physics (Print)* 47 (2014).

<https://dx.doi.org/10.1088/0022-3727/47/46/465301>

**133)-Coupling chemical reaction to electrospray: a novel preparation of gold nanostructures**

P. Calandra; Valeria La Parola; Domenico Lombardo; V. Turco Liveri

*ScienceJet* 3 (2014).

<http://www.cnr.it/prodotto/i/302376>

info:cnr-pdr/source/autori:P. Calandra, Valeria La Parola, Domenico Lombardo, V. Turco Liveri/titolo:Coupling chemical reaction to electrospray: a novel preparation of gold nanostructures/

**134)-Photonic crystal light emitting diode based on Er and Si nanoclusters co-doped slot waveguide**

Lo Savio R.; Galli M.; Liscidini M.; Andreani L.C.; Franzo G.; Iacona F.; Miritello M.; Irrera A.; Sanfilippo D.; Piana A.; Priolo F.

*Applied physics letters* 104 (2014): 121107.

<https://dx.doi.org/10.1063/1.4869751>

**135)-Anharmonic Damping of Terahertz Acoustic Waves in a Network Glass and Its Effect on the Density of Vibrational States**

Baldi, G.; Giordano, V. M.; Ruta, B.; Dal Maschio, R.; Fontana, A.; Monaco, G.subjectTHERMAL-CONDUCTIVITYsubjectELASTIC PROPERTIESsubjectVITREOUS SILICAsubjectBOSON PEAKsubjectSOLIDS

*Physical review letters (Print)* 112 (2014): 125502-1.

<https://dx.doi.org/10.1103/PhysRevLett.112.125502>

**136)-Stability of trans-Resveratrol Associated with Transport Proteins**

Pantusa, Manuela; Bartucci, Rosa; Rizzuti, Brunosubjectresveratrolsubjectbeta-lactoglobulinsubjecthuman serum albuminsubjectabsorbancesubjectfluorescencesubjectdockingsubjectmolecular dynamics

*Journal of agricultural and food chemistry* 62 (2014): 4384–4391.

<https://dx.doi.org/10.1021/jf405584a>

**137)-Molecular simulations of beta-lactoglobulin complexed with fatty acids reveal the structural basis of ligand affinity to internal and possible external binding sites**

Evoli, Stefania; Guzzi, Rita; Rizzuti, Brunosubjectbeta-lactoglobulinsubjectfatty acidssubjectmolecular dynamics simulationsubjectmolecular dockingsubjectbinding sites

*Proteins (Print)* 82 (2014): 2609–2619.

<https://dx.doi.org/10.1002/prot.24625>

**138)-Noise mitigation action plan of Pisa civil and military airport and its effects on people exposure**

Licitra G.; Gagliardi P.; Fredianelli L.; Simonetti D.subjectAircraft noisesubjectDirective 2002/49/EUsubjectEnvironmental noisesubjectNoise action planssubjectNoise mapping

*Applied acoustics* 84 (2014): 25–36.

<https://dx.doi.org/10.1016/j.apacoust.2014.02.020>

**139)-Multifunctional Supramolecular Dendrimers with an s-Triazine Ring as the Central Core: Liquid Crystalline, Fluorescence and Photoconductive Properties**

Bucos, Madalina; Sierra, Teresa; Golemme, Attilio; Termine, Roberto; Barbera, Joaquin; Gimenez, Raquel; Luis Serrano, Jose; Romero, Pilar; Marcos, Mercedessubjectdendrimerssubjectfluorescencesubjecthydrogen bondssubjectliquid crystalssubjectphotoconductivity

*Chemistry (Weinh., Print)* 20 (2014): 10027–10037.

<https://dx.doi.org/10.1002/chem.201402646>

**140)-Effect of a chiral substituent on the photochromic and photoconductive properties of a methacrylic polymer bearing side chain azocarbazole moieties**

Angiolini, Luigi; Benelli, Tiziana; Giorgini, Loris; Golemme, Attilio; Mazzocchetti, Laura; Termine, RobertosubjectPhotochromic chiral polymerssubjectCarbazole containing polymerssubjectMultifunctional materialssubjectPhotoconductive polymerssubjectPhotoresponsive materialssubjectChiroptical switches

*Dyes and pigments* 102 (2014): 53–62.

<https://dx.doi.org/10.1016/j.dyepig.2013.10.024>

**141)-On the influence of the mass ablated by a laser pulse on thin film morphology and optical properties**

Spadaro M.C.; Fazio E.; Neri F.; Ossi P.M.; Trusso S.

*Applied physics. A, Materials science & processing (Print)* 117 (2014): 137–142.

<https://dx.doi.org/10.1007/s00339-014-8304-8>

**142)-SERS activity of silver and gold nanostructured thin films deposited by pulsed laser ablation**

Agarwal, N. R.; Tommasini, Matteo; Fazio, Enza; Neri, Fortunato; Ponterio, Rosina C.; Trusso, Sebastiano; Ossi, Paolo Maria

*Applied physics. A, Materials science & processing (Print)* 117 (2014): 347–351.

<https://dx.doi.org/10.1007/s00339-014-8401-8>

**143)-Laser controlled synthesis of noble metal nanoparticle arrays for low concentration molecule recognition**

Fazio E.; Neri F.; Ponterio R.C.; Trusso S.; Tommasini M.; Ossi P.M.subjectLaser ablation of solidssubjectMorphology of thin filmssubjectOptical properties of thin filmssubjectSers

*Micromachines (Basel)* 5 (2014): 1296–1309.

<https://dx.doi.org/10.3390/mi5041296>

**144)-Metal Tungstates at the Ultimate Two-Dimensional Limit: Fabrication of a CuWO<sub>4</sub> Nanophase**

Denk, Martin; Kuhness, David; Wagner, Margareta; Surnev, Svetlozar; Negreiros, Fabio R.; Sementa, Luca; Barcaro, Giovanni; Vobornik, Ivana; Fortunelli, Alessandro; Netzer, Falko P.subjecttwo-dimensional oxide materialssubjectternary oxidesubjectCu tungstatesubjecttungsten oxide clusterssubjectscanning tunneling



microscopysubjectphotoelectron spectroscopysubjectphonon spectrasubjectdensity functional theory

*ACS nano* 8 (2014): 3947–3954.

<https://dx.doi.org/10.1021/nn500867y>

**145)-Atomistic Quantum Plasmonics of Gold Nanowire Arrays**

Sementa, Luca; Marini, Andrea; Barcaro, Giovanni; Negreiros, Fabio R.; Fortunelli, Alessandrosubjecttime-dependent density-functional theorysubjectoptical responsesubjectmacroscopic dielectric functionsubjectmolecule/plasmon couplingsubjectsingle-molecule detectionsubjectnanogaps

*ACS photonics* 1 (2014): 315–322.

<https://dx.doi.org/10.1021/ph500038z>

**146)-Au-24(SAdm)(16) Nanomolecules: X-ray Crystal Structure, Theoretical Analysis, Adaptability of Adamantane Ligands to Form Au-23(SAdm)(16) and Au-25(SAdm)(16), and Its Relation to Au-25(SR)(18)**

Crasto, David; Barcaro, Giovanni; Stener, Mauro; Sementa, Luca; Fortunelli, Alessandro; Dass, Amala

*Journal of the American Chemical Society (Print)* 136 (2014): 14933–14940.

<https://dx.doi.org/10.1021/ja507738e>

**147)-Communication: Striking dependence of diffusion kinetics in Ag-Cu nanoalloys upon composition and quantum effects**

Asgari, Mehdi; Negreiros, Fabio R.; Sementa, Luca; Barcaro, Giovanni; Behnejad, Hassan; Fortunelli, Alessandro

*The Journal of chemical physics* 141 (2014).

<https://dx.doi.org/10.1063/1.4891564>

**148)-Concepts in theoretical heterogeneous ultranano catalysis**

Negreiros, Fabio R.; Barcaro, Giovanni; Sementa, Luca; Fortunelli, AlessandrosubjectSubnanometer clustersubjectHeterogeneous catalystsubjectEpitaxial relationshipsubjectLigand/cluster interactionssubjectCharge transfer

*Comptes Rendus Chimie* 17 (2014): 625–633.

<https://dx.doi.org/10.1016/j.crci.2013.12.008>

**149)-Dramatic Increase in the Oxygen Reduction Reaction for Platinum Cathodes from Tuning the Solvent Dielectric Constant**

Fortunelli, Alessandro; Goddard, William A.; Sha, Yao; Yu, Ted H.; Sementa, Luca; Barcaro, Giovanni; Andreussi, Oliviero subjectdensity functional calculationsubjectelectrochemistrysubjecthydrogen fuel cellsubjectreaction energy barriersubject solvation

*Angewandte Chemie (Int. ed., Print)* 53 (2014): 6669–6672.

<https://dx.doi.org/10.1002/anie.201403264>

- 150)-Experimental and Theoretical Scanning Tunneling Spectroscopy Analysis of an Ultrathin Titania Film and Adsorbed Au Nanoparticles**  
Cavaliere, Emanuele; Barcaro, Giovanni; Sementa, Luca; Granozzi, Gaetano; Fortunelli, Alessandro; Gavioli, Luca  
*Journal of physical chemistry. C* 118 (2014): 14640–14646.  
<https://dx.doi.org/10.1021/jp502962z>
- 151)-Ligand/cluster/support catalytic complexes in heterogeneous ultrananocatalysis: NO oxidation on Ag-3/MgO(100)**  
Sementa, Luca; Barcaro, Giovanni; Negreiros, Fabio R.; Fortunelli, Alessandro  
*PCCP. Physical chemistry chemical physics (Print)* 16 (2014): 26570–26577.  
<https://dx.doi.org/10.1039/c4cp02135e>
- 152)-Optical Properties of Pt and Ag-Pt Nanoclusters from TDDFT Calculations: Plasmon Suppression by Pt Poisoning**  
Barcaro, Giovanni; Sementa, Luca; Fortunelli, Alessandro; Stener, Mauro  
*Journal of physical chemistry. C* 118 (2014): 28101–28108.  
<https://dx.doi.org/10.1021/jp508824w>
- 153)-Optical Properties of Silver Nanoshells from Time-Dependent Density Functional Theory Calculations**  
Barcaro, Giovanni; Sementa, Luca; Fortunelli, Alessandro; Stener, Mauro  
*Journal of physical chemistry. C* 118 (2014): 12450–12458.  
<https://dx.doi.org/10.1021/jp5016565>
- 154)-Probing the atomic structure of metallic nanoclusters with the tip of a scanning tunneling microscope**  
Schouteden, Koen; Lauwaet, Koen; Janssens, Ewald; Barcaro, Giovanni; Fortunelli, Alessandro; Van Haesendonck, Chris; Lievens, Peter  
*Nanoscale (Print)* 6 (2014): 2170–2176.  
<https://dx.doi.org/10.1039/c3nr03585a>
- 155)-Redox processes at a nanostructured interface under strong electric fields**  
Steurer, Wolfram; Surnev, Svetlozar; Netzer, Falko P.; Sementa, Luca; Negreiros, Fabio R.; Barcaro, Giovanni; Durante, Nicola; Fortunelli, Alessandro  
*Nanoscale (Print)* 6 (2014): 10589–10595.  
<https://dx.doi.org/10.1039/c4nr02882a>
- 156)-A High-Field EPR Study of the Accelerated Dynamics of the Amorphous Fraction of Semicrystalline Poly(dimethylsiloxane) at the Melting Point**

Massa, Carlo Andrea; Pizzanelli, Silvia; Bercu, Vasile; Pardi, Luca; Bertoldo, Monica; Leporini, Dino

*Applied magnetic resonance* 45 (2014): 693–706.

<https://dx.doi.org/10.1007/s00723-014-0547-1>

**157)-Constrained and Heterogeneous Dynamics in the Mobile and the Rigid Amorphous Fractions of Poly(dimethylsiloxane): A Multifrequency High-Field Electron Paramagnetic Resonance Study**

Massa, Carlo Andrea; Pizzanelli, Silvia; Bercu, Vasile; Pardi, Luca; Leporini, Dino

*Macromolecules (Print)* 47 (2014): 6748–6756.

<https://dx.doi.org/10.1021/ma501565z>

**158)-Visible and infrared emission from Si/Ge nanowires synthesized by metal-assisted wet etching**

Irrera A.; Artoni P.; Fioravanti V.; Franzo G.; Fazio B.; Musumeci P.; Boninelli S.; Impellizzeri G.; Terrasi A.; Priolo F.; Iacona F.subjectNanowiressubjectPhotoluminescencesubjectSemiconductor nanostructures

*Nanoscale research letters (Print)* 9 (2014): 1–7.

<https://dx.doi.org/10.1186/1556-276X-9-74>

**159)-Optical and conductive properties of as-synthesized organic-capped TiO<sub>2</sub> nanorods highly dispersible in polystyrene-block-poly(methyl methacrylate) diblock copolymer**

Cano, Laida; Di Mauro, Angela Evelyn; Striccoli, Marinella; Curri, Maria Lucia; Tercjak, Agnieszka subjectAFM subjectEFM subjectPS- b -PMMA subjectself-assembled block copolymers subjectTUNA

*ACS applied materials & interfaces (Print)* 6 (2014): 11805–11814.

<https://dx.doi.org/10.1021/am502542k>

**160)-Influence of ceramide on the internal structure and hydration of the phospholipid bilayer studied by neutron and X-ray scattering**

Kiselev, M. A.; Zemlyanaya, E. V.; Ryabova, N. Y.; Hauss, T.; Almasy, L.; Funari, S. S.; Zbytovska, J.; Lombardo, D.

*Applied physics. A, Materials science & processing (Print)* 116 (2014): 319–325.

<https://dx.doi.org/10.1007/s00339-013-8123-3>

**161)-A modified Close Proximity method to evaluate the time trends of road pavements acoustical performances**

Licitra, G.; Teti, L.; Cerchiai, M.subjectCPX subjectAcoustical absorptions subjectTyre/road noise

*Applied acoustics* 76 (2014): 169–179.

<https://dx.doi.org/10.1016/j.apacoust.2013.07.017>

- 162)-G(den): An indicator for European noise maps comparison and to support action plans**  
Licitra, Gaetano; Ascari, ElenasubjectNoise mappingsubjectEuropean cities noise exposuresubjectHot spotssubjectAction plansubjectEND  
*Science of the total environment* 482 (2014): 411–419.  
<https://dx.doi.org/10.1016/j.scitotenv.2013.07.014>
- 163)-Health Impact Assessment of airport noise on people living nearby six Italian airports**  
Ancona, Carla; Golini, Martina Nicole; Mataloni, Francesca; Camerino, Donatella; Chiusolo, Monica; Licitra, Gaetano; Ottino, Marina; Pisani, Salvatore; Cestari, Laura; Vigotti, Maria Angela; Davoli, Marina; Forastiere, Francescosubjectaircraft noisesubjecthealth impact assessmentsubjecthypertensionsubjectannoyancesubjectsleep disturbances  
*Epidemiologia e prevenzione* 38 (2014): 227–236.  
<http://www.cnr.it/prodotto/i/318351>  
info:cnr-pdr/source/autori:Ancona, Carla; Golini, Martina Nicole; Mataloni, Francesca; Camerino, Donatella; Chiusolo, Monica; Licitra, Gaetano; Ottino, Marina; Pisani, Salvatore; Cestari, Laura; Vigotti, Maria Angela; Davoli, Marina; Forastiere, Francesco/titolo:Health Impact Assessment of airport noise on people living nearby six Italian airports/
- 164)-Excitation-Dependent Ultrafast Carrier Dynamics of Colloidal TiO<sub>2</sub> Nanorods in Organic Solvent**  
Triggiani, Leonardo; Brunetti, Adalberto; Aloï, Antonio; Comparelli, Roberto; Curri, M. Lucia; Agostiano, Angela; Striccoli, Marinella; Tommasi, Raffaele  
*Journal of physical chemistry. C* 118 (2014): 25215–25222.  
<https://dx.doi.org/10.1021/jp507383w>
- 165)-Theoretical and computer simulation study of phase coexistence of nonadditive hard-disk mixtures**  
Fiumara, Giacomo; Pandaram, Owen D.; Pellicane, Giuseppe; Saija, Franz  
*The Journal of chemical physics* 141 (2014): 214508.  
<https://dx.doi.org/10.1063/1.4902440>
- 166)-Micropatterning of plastic nanocomposite films: Effect of Au nanoparticle content**  
Depalo, Nicoletta; Tamborra, Michela; Fanizza, Elisabetta; Di Gioia, Demetrio; Agostiano, A.; Curri, Maria Lucia; Striccoli, MarinellasubjectBreath figuresubjectGold nanoparticlessubjectPlasmonic materialssubjectPlastic hybrid films  
*Science of advanced materials (Print)* 6 (2014): 505–512.  
<https://dx.doi.org/10.1166/sam.2014.1744>
- 167)-Thermo-physical properties of ammonium-based ionic liquid plus N-methyl-2-pyrrolidone mixtures at 298.15 K**  
Usula, Marianna; Matteoli, Enrico; Leonelli, Francesca; Mocci, Francesca; Marincola, Flaminia Cesare; Gontrani, Lorenzo; Porcedda, SilviasubjectIonic liquidsubjectN-methyl-2-pyrrolidonesubjectDensitysubjectMolar excess volumesubjectMolar excess enthalpy

*Fluid phase equilibria* 383 (2014): 49–54.

<https://dx.doi.org/10.1016/j.fluid.2014.09.031>

**168)-Electroactive Layer-by-Layer Plasmonic Architectures Based on Au Nanorods**

Placido, Tiziana; Fanizza, Elisabetta; Cosma, Pinalysa; Striccoli, Marinella; Curri, M. Lucia; Comparelli, Roberto; Agostiano, Angela; subject: gold nanorods; subject: cytochrome c; subject: layer-by-layer; subject: direct electron transfer; subject: electrochemistry

*Langmuir* 30 (2014): 2608–2618.

<https://dx.doi.org/10.1021/la402873c>

**169)-Segmented poly(styrene-co-vinylpyridine) as multivalent host for CdSe nanocrystal based nanocomposites**

Di Mauro, Angela Evelyn; Toscanini, Marco; Piovani, Daniele; Samperi, Filippo; Curri, Maria Lucia; Corricelli, Michela; De Caro, Liberato; Siliqi, Dritan; Comparelli, Roberto; Agostiano, A.; Destri, Silvia; Striccoli, Marinella; subject: Colloidal nanocrystals; subject: Copolymers; subject: Interfaces; subject: Nanocomposite materials

*European Polymer Journal* 60 (2014): 222–234.

<https://dx.doi.org/10.1016/j.eurpolymj.2014.09.010>

**170)-Hybrid Assemblies of Fluorescent Nanocrystals and Membrane Proteins in Liposomes**

De Leo; Vincenzo; Catucci; Lucia; Falqui; Andrea; Marotta; Roberto; Striccoli; Marinella; Agostiano; Angela; Comparelli; Roberto; Milano; Francesco

*Langmuir* 30 (2014): 1599–1608.

<https://dx.doi.org/10.1021/la404160b>

**171)-Patterned assembly of luminescent nanocrystals: role of the molecular chemistry at the interface**

Altomare, Michele; Fanizza, Elisabetta; Corricelli, Michela; Comparelli, Roberto; Striccoli, Marinella; Curri, Maria Lucia; subject: Luminescent colloidal nanocrystals; subject: Surface chemistry; subject: Microcontact printing; subject: Patternings; subject: Solvent properties

*Journal of nanoparticle research* 16 (2014).

<https://dx.doi.org/10.1007/s11051-014-2468-1>

**172)-SERS Properties of Gold Nanorods at Resonance with Molecular, Transverse, and Longitudinal Plasmon Excitations**

Ros, Ida; Placido, Tiziana; Amendola, Vincenzo; Marinzi, Chiara; Manfredi, Norberto; Comparelli, Roberto; Striccoli, Marinella; Agostiano, Angela; Abbotto, Alessandro; Pedron, Danilo; Pilot, Roberto; Bozio, Renato; subject: Gold nanorods; subject: Localized surface plasmon resonances; subject: SERS; subject: Nonlinear optics; subject: Push-pull molecule

*Plasmonics (Norwell, Mass.)* 9 (2014): 581–593.

<https://dx.doi.org/10.1007/s11468-014-9669-4>

- 173)-Uniform TiO<sub>2</sub>/In<sub>2</sub>O<sub>3</sub> surface films effective in bacterial inactivation under visible light**  
Petronella, Francesca; Rtimi, Sami; Comparelli, Roberto; Sanjines, Rosendo; Pulgarin, Cesar; Curri, M. Lucia; Kiwi, JohnsubjectTiO<sub>2</sub>/In<sub>2</sub>O<sub>3</sub>subjectMagnetron sputteringsubjectBacterial inactivationsubjectIFCT mechanism  
*Journal of photochemistry and photobiology. A, Chemistry (Print)* 279 (2014): 1–7.  
<https://dx.doi.org/10.1016/j.jphotochem.2014.01.005>
- 174)-Supercooled water escaping from metastability**  
Aliotta F; Giaquinta PV; Ponterio RC; Prestipino S; Saija F; Salvato G; Vasi C  
*Scientific reports (Nature Publishing Group)* 4 (2014): 7230–7234.  
<https://dx.doi.org/10.1038/srep07230> (2014)
- 175)-A simple spin model for three step relaxation and secondary processes in glass formers**  
Andrea Crisanti (a,b); Luca Leuzzi (a,c)subjectSecondary processsubjectGlasssubjectMode Coupling TheorysubjectSpin glasssubjectSpherical models  
*Journal of non-crystalline solids* 407 (2014): 110–117.  
<https://dx.doi.org/10.1016/j.jnonclysol.2014.07.048>
- 176)-Anti-diffracting beams through the diffusive optical nonlinearity**  
F. Di Mei (1,2); J. Parravicini (1,3); D. Pierangeli (1); C. Conti (4); J. Agranat (5); E. DelRe (1,3)subjectnonlinear opticssubjectphotorefractive optics  
*Optics express* 22 (2014): 31434–31439.  
<https://dx.doi.org/10.1364/OE.22.031434>
- 177)-Photosystem II based multilayers obtained by electrostatic layer-by-layer assembly on quartz substrates**  
Ventrella, Andrea; Catucci, Lucia; Placido, Tiziana; Longobardi, Francesco; Agostiano, AngelasubjectPhotosystem IIsystem IIsubjectSelf-assemblysubjectElectron transfersubjectAbsorption spectroscopysubjectAFM  
*Journal of bioenergetics and biomembranes* 46 (2014): 221–228.  
<https://dx.doi.org/10.1007/s10863-014-9544-1>
- 178)-GISAXS and GIWAXS study on self-assembling processes of nanoparticle based superlattices**  
Corricelli, M.; Altamura, D.; Curri, M. L.; Sibillano, T.; Siliqi, D.; Mazzone, A.; Depalo, N.; Fanizza, E.; Zanchet, D.; Giannini, C.; Striccoli, M.  
*CrystEngComm (Camb., Online)* 16 (2014): 9482–9492.  
<https://dx.doi.org/10.1039/c4ce01291g>
- 179)-Structural and morphological study of a poly(3-hexylthiophene)/streptavidin multilayer structure serving as active layer in ultra-sensitive OFET biosensors**

Magliulo M.; Altamura D.; Di Franco C.; Santacroce M.V.; Manoli K.; Mallardi A.; Palazzo G.; Scamarcio G.; Giannini C.; Torsi L.

*Journal of physical chemistry. C 118 (2014): 15853–15862.*

<https://dx.doi.org/10.1021/jp504652u>

**180)-Temperature Dependence of the Structural Relaxation Time in Equilibrium below the Nominal T-g: Results from Freestanding Polymer Films**

Ngai, K. L.; Capaccioli, Simone; Paluch, Marian; Prevosto, Daniele subject.

*The journal of physical chemistry. B 118 (2014): 5608–5614.*

<https://dx.doi.org/10.1021/jp502846t>

**181)-Origins of the two simultaneous mechanisms causing glass transition temperature reductions in high molecular weight freestanding polymer films**

Prevosto, Daniele; Capaccioli, Simone; Ngai, K. L. subject.

*The Journal of chemical physics 140 (2014).*

<https://dx.doi.org/10.1063/1.4865752>

**182)-Insights into meso-structured photoanodes based on titanium oxide thin film with high dye adsorption ability**

Di Carlo, Gabriella; Calogero, Giuseppe; Brucale, Marco; Caschera, Daniela; de Caro, Tilde; Di Marco, Gaetano; Ingo, Gabriel M. subject N719 dye adsorptions subject Morphological properties subject Surface roughness subject Ordered mesoporous materials subject Dye-sensitized solar cells

*Journal of alloys and compounds 609 (2014): 116–124.*

<https://dx.doi.org/10.1016/j.jallcom.2014.04.145>

**183)-Nanocomposites Based on Luminescent Colloidal Nanocrystals and Polymeric Ionic Liquids towards Optoelectronic Applications**

Panniello, Annamaria; Ingrosso, Chiara; Coupillaud, Paul; Tamborra, Michela; Binetti, Enrico; Curri, Maria Lucia; Agostiano, Angela; Taton, Daniel; Striccoli, Marinella subject colloidal nanocrystals subject polymeric ionic liquid subject nanocomposites subject surface functionalizations subject time-resolved spectroscopy

*Materials (Basel) 7 (2014): 591–610.*

<https://dx.doi.org/10.3390/ma7010591>

**184)-Biotin-decorated silica coated PbS nanocrystals emitting in the second biological near infrared window for bioimaging**

Corricelli, Michela; Depalo, Nicoletta; Di Carlo, E.; Fanizza, Elisabetta; Laquintana, Valentino; Denora, Nunzio; Agostiano, A.; Striccoli, Marinella; Curri, Maria Lucia subject.

*Nanoscale (Print) 6 (2014): 7924–7933.*

<https://dx.doi.org/10.1039/c4nr01025f>

**185)-Selective confinement of oleylamine capped Au nanoparticles in self-assembled PS-b-PEO diblock copolymer templates**

Di Mauro, A. Evelyn; Striccoli, Marinella; Depalo, Nicoletta; Fanizza, Elisabetta; Cano, Laida; Ingrosso, Chiara; Agostiano, Angela; Curri, M. Lucia; Tercjak, Agnieszka

*Soft matter (Print) 10 (2014): 1676–1684.*

<https://dx.doi.org/10.1039/c3sm52596a>

**186)-Applicative study (Part I): the excellent conditions to remove in batch direct textile dyes (Direct red, Direct blue and Direct yellow) from aqueous solutions by adsorption processes on low-cost chitosan films under different conditions**

Vito Rizzi; Alessandra Longo; Paola Fini; Paola Semeraro; Pinalysa Cosma; Esther Franco; Rocío García; ; Marcela Ferrándiz; Estrella Núñez; José Antonio Gabaldón; Isabel Fortea; Enrique Pérez; Miguel Ferrándiz

*Advances in chemical engineering and science (Online) 4 (2014): 454–469.*

<https://dx.doi.org/10.4236/aces.2014.44048>

**187)-pH-related features and photostability of 4-thiothymidine in aqueous solution: an investigation by UV-visible, NMR and FTIR-ATR spectroscopies and by electrospray ionization mass spectrometry**

Rizzi, Vito; Losito, Ilario; Ventrella, Andrea; Fini, Paola; Agostiano, Angela; Longobardi, Francesco; Cosma, Pinalysa

*RSC advances 4 (2014): 48804–48814.*

<https://dx.doi.org/10.1039/c4ra09747e>

**188)-Chitosan Nanoparticles for Topical Co-administration of the Antioxidants Glutathione and Idebenone: Characterization and In vitro Release**

Lucia Montenegro; Adriana Trapani; Paola Fini; Delia Mandracchia; Andrea Latrofa; Nicola Cioffi; Laura Chiarantini; Giusi Giada Picceri; Serena Brundu and Giovanni Puglisi

*British journal of pharmaceutical research 4 (2014): 2387–2406.*

<https://dx.doi.org/10.9734/BJPR/2014/8641>

**189)-H-bonding driven assembly of colloidal Au nanoparticles on nanostructured poly(styrene-b-ethylene oxide) block copolymer templates**

Di Mauro, A. Evelyn; Villone, Vincenzo; Ingrosso, Chiara; Corricelli, Michela; Oria, Lorea; Perez-Murano, Francesc; Agostiano, Angela; Striccoli, Marinella; Curri, M. L.

*Journal of materials science 49 (2014): 5246–5255.*

<https://dx.doi.org/10.1007/s10853-014-8184-5>

**190)-beta-Cyclodextrin-grafted on multiwalled carbon nanotubes as versatile nanoplatform for entrapment of guanine-based drugs**



Iannazzo, Daniela; Mazzaglia, Antonino; Scala, Angela; Pistone, Alessandro; Galvagno, Signorino; Lanza, Maurizio; Riccucci, Cristina; Ingo, Gabriel Maria; Colao, Ivana; Sciortino, Maria Teresa; Valle, Francesco; Piperno, Anna; Grassi, Giovanni  
chemistrysubjectMultiwalled carbon nanotubessubjectbeta-CyclodextrinssubjectGuaninesubjectAcyclovir

*Colloids and surfaces. B, Biointerfaces (Print)* 123 (2014): 264–270.

<http://www.cnr.it/prodotto/i/304277>

info:cnr-pdr/source/autori:Iannazzo, Daniela; Mazzaglia, Antonino; Scala, Angela; Pistone, Alessandro; Galvagno, Signorino; Lanza, Maurizio; Riccucci, Cristina; Ingo, Gabriel Maria; Colao, Ivana; Sciortino, Maria Teresa; Valle, Francesco; Piperno, Anna; Grassi, Giovanni/titolo:beta-Cyclodextrin-grafted on multiwalled carbon nanotubes as versatile nanoplatform for entrapment of guanine-based drugs/

**191)-Study of the cold crystallization of poly(ethylene terephthalate) at the air interface by ATR spectroscopy**

Massa, Carlo Andrea; Capaccioli, Simone; Manariti, Antonella; Bertoldo, Monica  
subject.

*European Polymer Journal* 60 (2014): 286–296.

<https://dx.doi.org/10.1016/j.eurpolymj.2014.08.012>

**192)-Photosynthetic Machineries in Nano-Systems**

Nagy, Laszlo; Magyar, Melinda; Szabo, Tibor; Hajdu, Kata; Giotta, Livia; Dorogi, Marta; Milano, Francesco  
subjectBio-nanocomposites  
subjectnanosystemssubjectphotosynthesis  
subjectreaction centre

*Current protein and peptide science (Print)* 15 (2014): 363–373.

<https://dx.doi.org/10.2174/1389203715666140327102757>

**193)-Reversible hydrogen absorption in a Ti-6Al-4V alloy produced by mechanical alloying**

Bonaccorsi L.; Calabrese L.; Pintaudi A.; Proverbio E.; Aliotta F.; Ponterio R.; Scherillo A.; Tresoldi D.  
subjectHydrogen absorbing materials; Titanium alloys; Mechanical alloying; Crystal structure; Neutron diffraction

*International journal of hydrogen energy* 39 (2014): 15540–15548.

<https://dx.doi.org/10.1016/j.ijhydene.2014.07.149>

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

### 1)-450% Thermal-conductivity increase in silver-filled epoxy resins loaded with carbon nanotubes and graphene

Messina, Elena; Leone, N.; Foti, Antonino; D'Andrea, Cristiano; Fazio, Barbara; Marago, Onofrio M.; Crupi, Cristina; Di Marco, Gaetano D.; Vasi, Cirino S.; Di Carlo, G.; Ricucci, C.; Ingo, Gabriel Maria; Cassata, A.; Gucciardi, Pietro Giuseppe

subjectCarbon nanotubes  
subjectEpoxy resins  
subjectGraphene  
*16th European Conference on Composite Materials, ECCM 2014, Siviglia (Spagna), 22-26/06/2014*

<http://www.scopus.com/record/display.url?eid=2-s2.0-84915749406&origin=inward>

info:cnr-pdr/source/autori:Messina, Elena; Leone, N.; Foti, Antonino; D'Andrea, Cristiano; Fazio, Barbara; Marago, Onofrio M.; Crupi, Cristina; Di Marco, Gaetano D.; Vasi, Cirino S.; Di Carlo, G.; Ricucci, C.; Ingo, Gabriel Maria; Cassata, A.; Gucciardi, Pietro Giuseppe/congresso\_nome:16th European Conference on Composite Materials, ECCM 2014/congresso\_luogo:Siviglia (Spagna)/congresso\_data:22-26/06/2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

### 2)-Unravelling Cobalt Binding to Photosynthetic Bacterium by X-ray Absorption Spectroscopy

B. D. Belviso; Italiano F.; Caliandro R.; Trotta M.  
subjectCobalt  
subjectBioremediation  
2014

<http://www.cnr.it/prodotto/i/158361>

### 3)-Cu-modified TiO<sub>2</sub>-based photocatalysts for visible light active photodegradation in water and gas matrices

Truppi A and Petronella F and Negro P and Sardella E and Agostiano A and Curri ML and COMPARELLI R.

*8th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications - SPEA 8, 2014*

<http://www.cnr.it/prodotto/i/295451>

info:cnr-pdr/source/autori:Truppi A and Petronella F and Negro P and Sardella E and Agostiano A and Curri ML and COMPARELLI R./congresso\_nome:8th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications - SPEA 8/congresso\_luogo:/congresso\_data:2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

### 4)-Photocatalytic activity of TiO<sub>2</sub> Shape-Controlled Nanocrystals onto Single Walled Carbon Nanotube

Petronella F and Curri ML and Striccoli M and Mateo-Mateo C and Alvarez-Puebla RA and Agostiano A and Correa-Duarte MA and COMPARELLI R.

*8th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications - SPEA 8, 2014*

<http://www.cnr.it/prodotto/i/295452>

info:cnr-pdr/source/autori:Petronella F and Curri ML and Striccoli M and Mateo-Mateo C and Alvarez-Puebla RA and Agostiano A and Correa-Duarte MA and COMPARELLI R./congresso\_nome:8th European Meeting on Solar Chemistry and Photocatalysis: Environmental Applications - SPEA 8/congresso\_luogo:/congresso\_data:2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**5)-Influence of the coronary arteries on the flow in the aortic root**

S.Fortini; G.Querzoli; S.Espa; S.Melchionna

*EFMC 10 - European Fluid Mechanics Conference, 2014*

<http://www.cnr.it/prodotto/i/289812>

info:cnr-pdr/source/autori:S.Fortini, G.Querzoli, S.Espa, S.Melchionna/congresso\_nome:EFMC 10 - European Fluid Mechanics Conference/congresso\_luogo:/congresso\_data:2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**6)-Influence of the coronaries on the flow in the aortic root**

S.Fortini; S.Espa; G. Querzoli; S. Melchionna; A. Cenedese

*17th Int. Symp. On Applications of Laser Techniques to Fluid Mechanics, Lisbona, 2014*

<http://www.cnr.it/prodotto/i/289813>

info:cnr-pdr/source/autori:S.Fortini, S.Espa, G. Querzoli, S. Melchionna, A. Cenedese/congresso\_nome:17th Int. Symp. On Applications of Laser Techniques to Fluid Mechanics/congresso\_luogo:Lisbona/congresso\_data:2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**7)-From medical imaging to computer simulation of fractional flow reserve in four coronary artery trees**

Melchionna S.; Fortini S.; Bernaschi M.; Bisson M.; Kang N.; Lee H.-E.subjectAtherosclerotic plaquessubjectFractional Flow ReservesubjectHemodynamicssubjectHigh-Performance computingsubjectIn vitro analysissubjectSegmentation to Simulation pipeline

*SPIE Medical Imaging, 2014*

<https://dx.doi.org/10.1117/12.2043236>

info:cnr-pdr/source/autori:Melchionna S.; Fortini S.; Bernaschi M.; Bisson M.; Kang N.; Lee H.-E./congresso\_nome:SPIE Medical Imaging/congresso\_luogo:/congresso\_data:2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**8)-Studio dei metodi di forgiatura di sue spade giapponesi della Wallace collection**

E. Barzagli (1,2); F. Grazzi (1); A. Williams (3); D. Edge (3); A. Scherillo (4,5); M. Zoppi (1)  
*AIAR - 8° Congresso Nazionale di Archeometria, Scienza e Beni Culturali: stato dell'arte e prospettive, Bologna, 5-7 Febbraio 2014*

<http://www.associazioneaiar.com/cms/content/extended-abstract>

info:cnr-pdr/source/autori:E. Barzagli (1,2); F. Grazzi (1); A. Williams (3); D. Edge (3); A. Scherillo (4,5); M. Zoppi (1)/congresso\_nome:AIAR - 8° Congresso Nazionale di Archeometria, Scienza e Beni Culturali: stato dell'arte e prospettive/congresso\_luogo:Bologna/congresso\_data:5-7 Febbraio 2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**9)-LC-ESI-MSn characterization of ornithine lipids from <i>Rhodobacter sphaeroides</i>**

Sara Granafei; G. Valenza; V. De Leo; F. Italiano; M. Trotta; F. Palmisano; T. R. I. Cataldi  
*XXV Congresso Nazionale della Società Chimica Italiana, Università della Calabria, Rende (Cs), 7 - 12 Settembre*

<http://www.cnr.it/prodotto/i/283805>

info:cnr-pdr/source/autori:Sara Granafei, G. Valenza, V. De Leo, F. Italiano, M. Trotta, F. Palmisano, T. R. I. Cataldi/congresso\_nome:XXV Congresso Nazionale della Società Chimica Italiana/congresso\_luogo:Università della Calabria, Rende (Cs)/congresso\_data:7 - 12 Settembre/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**10)-Spectroscopic characterization of photosynthetic reaction centers embedded in ABA tri-block polymersomes**

Roberto R. Tangorra; A. Operamolla; F. Milano; O. Hassan Omar; J. Henrard; R. Comparelli; F. Italiano; A. Agostiano; G. M. Farinola; M. Trotta

*XXV Congresso Nazionale della Società Chimica Italiana, Università della Calabria, Rende (Cs), 7 - 12 Settembre*

<http://www.cnr.it/prodotto/i/283807>

info:cnr-pdr/source/autori:Roberto R. Tangorra, A. Operamolla, F. Milano, O. Hassan Omar, J. Henrard, R. Comparelli, F. Italiano, A. Agostiano, G. M. Farinola, M. Trotta/congresso\_nome:XXV Congresso Nazionale della Società Chimica Italiana/congresso\_luogo:Università della Calabria, Rende (Cs)/congresso\_data:7 - 12 Settembre/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**11)-How cobalt binds to photosynthetic bacterium R. sphaeroides: a XAS study**

Benny Danilo Belviso; R. Caliandro; F. Italiano; B. Carrozzini; A. Costanza; M. Trotta

*XXV Congresso Nazionale della Società Chimica Italiana, Università della Calabria, Rende (Cs), 7 - 12 Settembre*

<http://www.cnr.it/prodotto/i/283808>

info:cnr-pdr/source/autori:Benny Danilo Belviso, R. Caliandro, F. Italiano, B. Carrozzini, A. Costanza, M. Trotta/congresso\_nome:XXV Congresso Nazionale della Società Chimica Italiana/congresso\_luogo:Università della Calabria, Rende (Cs)/congresso\_data:7 - 12 Settembre/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

### **12)-Bi-fuel supply is adopted by Rhodobacter sphaeroides to cope with high concentrations of Cobalt ions**

M. Volpicella; A. Costanza; O. Palumbo; F. Italiano; C. Leoni; A. Placido; E. Picardi; M. Carella; M. Trotta; L.R. Ceci

*XIII congresso Federazione Italiana Scienze della Vita, Pisa, 24-27 settembre 2014*

<http://www.cnr.it/prodotto/i/284576>

info:cnr-pdr/source/autori:M. Volpicella, A. Costanza, O. Palumbo, F. Italiano, C. Leoni, A. Placido, E. Picardi, M. Carella, M. Trotta, L.R. Ceci/congresso\_nome:XIII congresso Federazione Italiana Scienze della Vita/congresso\_luogo:Pisa/congresso\_data:24-27 settembre 2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

### **13)-Structural Organization in Neat Ionic Liquids and in Their Mixtures**

Olga Russina; Barbara Fazio; Gaetano Di Marco; Ruggero Caminiti; Alessandro Triolo

*The Structure of Ionic Liquids, pp. 39–62. CH-6330 Cham (ZG): Springer International Publishing, 2014*

<https://dx.doi.org/10.1007/978-3-319-01698-6>

info:cnr-pdr/source/autori:Olga Russina, Barbara Fazio, Gaetano Di Marco, Ruggero Caminiti and Alessandro Triolo/titolo:Structural Organization in Neat Ionic Liquids and in Their Mixtures/titolo\_volume:The Structure of Ionic Liquids/curatori\_volume:/editore:

/anno:2014

### **14)-Polarization Dependent Optical Forces on Chiral Microresonators**

M. G. Donato; J. Hernandez; A. Mazzulla; C. Provenzano; R. Saija; M. A. Iatì; A. Magazzù; P. Pagliusi; R. Bartolino; P. G. Gucciardi; O. M. Maragò; G. Cipparrone/subject:chirality/subject:optical tweezers/subject:liquid crystal/subject:polymers

*Frontiers in Optics, Tucson, Arizona United States, 19-23 ottobre 2014*

<https://dx.doi.org/10.1364/FIO.2014.FTu2G.5>

info:cnr-pdr/source/autori:M. G. Donato, J. Hernandez, A. Mazzulla, C. Provenzano, R. Saija, M. A. Iatì, A. Magazzù, P. Pagliusi, R. Bartolino, P. G. Gucciardi, O. M. Maragò, G. Cipparrone/congresso\_nome:Frontiers in Optics/congresso\_luogo:Tucson, Arizona United States/congresso\_data:19-23 ottobre 2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**15)-Pre-roman coins from northern Italy: characterization with neutron diffraction analysis and first results**

J. Corsi (1,2); A. Lo Giudice (1,2); A. Re (1,2); A. Scherillo (3,4), F. Grazzi (5); F. Barello (6)  
*8° Congresso Nazionale di Archeometria, Scienze e Beni culturali: stato dell'arte e prospettive, pp. online, Bologna, Italy, 5-7 Febbraio 2014*

<http://www.associazioneaiar.com/wp/eventi/viii-congresso-nazionale/>

info:cnr-pdr/source/autori:J. Corsi (1,2); A. Lo Giudice (1,2); A. Re (1,2); A. Scherillo (3,4), F. Grazzi (5); F. Barello (6)/congresso\_nome:8° Congresso Nazionale di Archeometria, Scienze e Beni culturali: stato dell'arte e prospettive/congresso\_luogo:Bologna, Italy/congresso\_data:5-7 Febbraio 2014/anno:2014/pagina\_da:online/pagina\_a:/intervallo\_pagine:online

**16)-Molecular wires from discotic liquid crystals**

Park J.H.; Labardi M.; Scalia G.subjectatomic force microscopysubjectdiscotic liquid crystalssubjectmolecular nanowiressubjectoptical microscopysubjectself-assembly

*Emerging Liquid Crystal Technologies IX, 2014*

<https://dx.doi.org/10.1117/12.2049178>

info:cnr-pdr/source/autori:Park J.H.; Labardi M.; Scalia G./congresso\_nome:Emerging Liquid Crystal Technologies IX/congresso\_luogo:/congresso\_data:2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**17)-Dynamics of dendritic polymers in the bulk and under confinement**

Chrissopoulou K.; Fotiadou S.; Androulaki K.; Tanis I.; Karatasos K.; Prevosto D.; Labardi M.; Frick B.; Anastasiadis S.H.subjectConfinementsubjectIntercalationsubjectLayered SilicatusubjectPolymer Dynamics

*7th International Conference on Times of Polymers (TOP) and Composites, pp. 250–253, Ischia (Italy), 22/6/2014*

<https://dx.doi.org/10.1063/1.4876825>

info:cnr-pdr/source/autori:Chrissopoulou K.; Fotiadou S.; Androulaki K.; Tanis I.; Karatasos K.; Prevosto D.; Labardi M.; Frick B.; Anastasiadis S.H./congresso\_nome:7th International Conference on Times of Polymers (TOP) and Composites/congresso\_luogo:Ischia (Italy)/congresso\_data:22/6/2014/anno:2014/pagina\_da:250/pagina\_a:253/intervallo\_pagine:250–253

**18)-Parameter identification and real-time J-V curve reconstruction of polymer PV and dye-sensitized cells using non-iterative algorithms**

S. Cannizzaro; M.C. Di Piazza; M. Luna; G. Vitale; G. Calogero; I. CitrosubjectPolymer FilmssubjectSimulationsubjectModelling / ModelingsubjectDye-SensitisedsubjectDye-SensitizedsubjectParameter Identification

*European PV Solar Energy Conference and Exhibition, (EU PVSEC 2014), pp. 1548–1553, Amsterdam, Paesi Bassi, 22-26 settembre 2014*

<https://dx.doi.org/10.4229/EUPVSEC20142014-3BV.5.15>

info:cnr-pdr/source/autori:S. Cannizzaro, M.C. Di Piazza, M. Luna, G. Vitale, G. Calogero, I. Citro/congresso\_nome:European PV Solar Energy Conference and Exhibition, (EU PVSEC 2014),/congresso\_luogo:Amsterdam, Paesi Bassi/congresso\_data:22-26 settembre 2014/anno:2014/pagina\_da:1548/pagina\_a:1553/intervallo\_pagine:1548–1553

**19)-Low band gap rod-coil diblock copolymer as nanostructuring compatibilizer of PCPDTBT/CdSe nanocrystals-based hybrid solar cells**

S. Zappia; S. Destri; A. E. Di Mauro; M. Striccoli; M.L. Curri; R. Mastria; A. Rizzo

*Italian Photochemistry Meeting 2014, Abbiategrasso (MI), 27-29/11/2014*

<http://www.cnr.it/prodotto/i/292404>

info:cnr-pdr/source/autori:S. Zappia, S. Destri, A. E. Di Mauro, M. Striccoli, M.L. Curri, R. Mastria, A. Rizzo/congresso\_nome:Italian Photochemistry Meeting 2014/congresso\_luogo:Abbiategrasso (MI)/congresso\_data:27-29/11/2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**20)-Morphological study of CdSe nanocrystals passivated with a low band gap rod-coil diblock copolymer for hybrid solar cells**

Stefania Zappia; Silvia Destri; Marinella Striccoli; Maria Lucia Curri; A. Evelyn Di Mauro; Zoobia Ameer; Giuseppe Maruccio; Aurora Rizzo; Rosanna Mastria  
subjectAFMsubjectBlock CopolymerssubjectCdSe NanocrystalssubjectHybrid Solar CellssubjectPCPDTBTsubjectRod-Coil

*6th Forum on New Materials - Part A, edited by Pietro Vicentini, pp. 235–240, 2014*

<https://dx.doi.org/10.4028/www.scientific.net/AST.93>

info:cnr-pdr/source/autori:Stefania Zappia, Silvia Destri, Marinella Striccoli, Maria Lucia Curri, A. Evelyn Di Mauro, Zoobia Ameer, Giuseppe Maruccio, Aurora Rizzo, Rosanna Mastria/titolo:Morphological study of CdSe nanocrystals passivated with a low band gap rod-coil diblock copolymer for hybrid solar cells/titolo\_volume:6th Forum on New Materials - Part A/curatori\_volume:Pietro Vicentini/editore:/anno:2014

**21)-Synthesis of rod-coil diblock copolymer with different approaches and its use for passivation of CdSe nanocrystals**

S. Zappia; S. Destri; M. Striccoli; M.L. Curri; A. E. Di Mauro; A. Rizzo; R. Mastria

*CIMTEC 2014, 6 th Forum on new materials, Montecatini Terme (PT), 15-19/06/2014*

<http://www.cnr.it/prodotto/i/292384>

info:cnr-pdr/source/autori:S. Zappia, S. Destri, M. Striccoli, M.L. Curri, A. E. Di Mauro, A. Rizzo, R. Mastria/congresso\_nome:CIMTEC 2014, 6 th Forum on new

materials/congresso\_luogo:Montecatini Terme (PT)/congresso\_data:15-19/06/2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**22)-Graphene/Nanotubes hybrid counter-electrode for dye-sensitized solar cell**

Francesco Bonaccorso; Giuseppe Calogeroa; Ilaria Citro; Cristina Crupi; Vittorio Pellegrinib; Gaetano Di Marco

*ChemOnTubes, Riva del Garda, Italy, March 30th- April 3rd 2014,*

<http://www.cnr.it/prodotto/i/299675>

info:cnr-pdr/source/autori:Francesco Bonaccorso, Giuseppe Calogeroa, Ilaria Citro, Cristina Crupi, Vittorio Pellegrinib, Gaetano Di Marco/congresso\_nome:ChemOnTubes/congresso\_luogo:Riva del Garda, Italy/congresso\_data:March 30th- April 3rd 2014,/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**23)-A study on flavylum salts as bio-inspired sensitizers for dye-sensitized solar cells**

G. Calogero; I. Citro; A. Bartolotta; G. Di Marco; S. Caramori; C. A. Bignozzi; V. Petrov; A. M. Diniz; A. J. Parola; F. Pina.

*Workshop Photovoltaics: New frontiers and applications, Lecce, 16/18 October 2014*

<http://www.cnr.it/prodotto/i/299891>

info:cnr-pdr/source/autori:G. Calogero, I. Citro, A. Bartolotta, G. Di Marco, S. Caramori, C. A. Bignozzi, V. Petrov, A. M. Diniz, A. J. Parola, F. Pina./congresso\_nome:Workshop Photovoltaics: New frontiers and applications/congresso\_luogo:Lecce/congresso\_data:16/18 October 2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**24)-Low temperature synthesis of mesoporous titania films with ordered porous structure and high surface area for flexible solar cells**

C. Giuliani; G. Di Carlo; G. Calogero; I. Citro; G. Di Marco; G.M. Ingo

*Workshop Photovoltaics: New frontiers and applications, Lecce, 16/18 October 2014*

<http://www.cnr.it/prodotto/i/299897>

info:cnr-pdr/source/autori:C. Giuliani, G. Di Carlo, G. Calogero, I. Citro, G. Di Marco, G.M. Ingo/congresso\_nome:Workshop Photovoltaics: New frontiers and applications/congresso\_luogo:Lecce/congresso\_data:16/18 October 2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**25)-Bursting photosynthesis: designing ad-hoc fluorophores to complement the light harvesting capability of the photosynthetic reaction center**

O. Hassan Omar; ; R. R. Tangorra; F. Milano; D. Vona; A. Operamolla; S. la Gatta; A. Agostiano; M. Trotta; G.M. Farinola; R. Ragnis  
subjectbiological synthesis (assembly)subjectbiological synthesis (chemical reaction)subjectbiomimetic (assembly)



2014 MRS Spring Meeting - Symposium Z - Bioelectronics--Materials, Processes and Applications, San Francisco, 21-21/4/2014

<https://dx.doi.org/10.1557/opl.2014.617>

info:cnr-pdr/source/autori:O. Hassan Omar, , R. R. Tangorra, F. Milano, D. Vona, A. Operamolla, S. la Gatta, A. Agostiano, M. Trotta, G.M. Farinola and R. Ragni/congresso\_nome:2014 MRS Spring Meeting - Symposium Z - Bioelectronics--Materials, Processes and Applications/congresso\_luogo:San Francisco/congresso\_data:21-21/4/2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**26)-High surface area and mesoporous titania films with ordered porous structure for flexible solar cells**

Gabriella Di Carlo; Giuseppe Calogero; Chiara Giuliani; Gaetano Di Marco; Gabriel M Ingo  
*HOPV14 - 6th International Conference on Hybrid and Organic Photovoltaics, Lausanne, 11th to 14th May 2014*

<http://www.cnr.it/prodotto/i/299924>

info:cnr-pdr/source/autori:Gabriella Di Carlo, Giuseppe Calogero, Chiara Giuliani, Gaetano Di Marco, Gabriel M Ingo/congresso\_nome:HOPV14 - 6th International Conference on Hybrid and Organic Photovoltaics/congresso\_luogo:Lausanne/congresso\_data:11th to 14th May 2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**27)-[4]Antocyanins, Betalains and Chlorophylls : the A B C of bio-photovoltaics**

Ilaria Citro; Carini; Antonio Bartolotta; Giuseppe Calogero; Gaetano Di Marco  
*HOPV14 - 6th International Conference on Hybrid and Organic Photovoltaics, Lausanne, 11th to 14th May 2014*

<http://www.cnr.it/prodotto/i/299946>

info:cnr-pdr/source/autori:Ilaria Citro, Carini, Antonio Bartolotta, Giuseppe Calogero, Gaetano Di Marco/congresso\_nome:HOPV14 - 6th International Conference on Hybrid and Organic Photovoltaics/congresso\_luogo:Lausanne/congresso\_data:11th to 14th May 2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**28)-A bio-organic hybrid photosynthetic complex for enhanced photoconversion**

G. M. Farinola; A. Operamolla; R. Tangorra; F. Milano; O. Hassan Omar; D. Belviso; R. Caliandro; F. Italiano; R. Ragni; A. Agostiano; M. Trotta

*2014 MRS Spring Meeting & Exhibit, San Francisco, California (USA), April 21-25, 2014*

<http://www.cnr.it/prodotto/i/300013>

info:cnr-pdr/source/autori:G. M. Farinola, A. Operamolla, R. Tangorra, F. Milano, O. Hassan Omar, D. Belviso, R. Caliandro, F. Italiano, R. Ragni, A. Agostiano, M. Trotta/congresso\_nome:2014 MRS Spring Meeting & Exhibit/congresso\_luogo:San Francisco, California (USA)/congresso\_data:April 21-25, 2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**29)-Photo/Electro-active materials from photosynthetic microorganisms and pgreen-conjugated molecules**

G. M. Farinola; A. Operamolla; R. Tangorra; F. Milano; O. Hassan Omar; D. Belviso; R. Caliandro; F. Italiano; R. Ragni; A. Agostiano; M. Trotta

*2014 MRS Spring Meeting & Exhibit, San Francisco, California (USA), April 21-25, 2014*

<http://www.cnr.it/prodotto/i/300018>

info:cnr-pdr/source/autori:G. M. Farinola, A. Operamolla, R. Tangorra, F. Milano, O. Hassan Omar, D. Belviso, R. Caliandro, F. Italiano, R. Ragni, A. Agostiano, M. Trotta/congresso\_nome:2014 MRS Spring Meeting & Exhibit/congresso\_luogo:San Francisco, California (USA)/congresso\_data:April 21-25, 2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**30)-Functional reconstitution of photosynthetic reaction centres in polymersomes**

F. Milano; R. R. Tangorra; O. Hassan Omar; J. Henrard; R. Comparelli; F. Italiano; A. Operamolla; A. Agostiano; G. M. Farinola; M. Trotta

*PHOTOTECH: Photosynthetic proteins for technological applications: biosensors and biochips - COST ACTION TD1102 2nd PLENARY WORKSHOP, Istanbul (Turchia), 8-11 Aprile 2014*

<http://www.cnr.it/prodotto/i/300023>

info:cnr-pdr/source/autori:F. Milano; R. R. Tangorra; O. Hassan Omar; J. Henrard; R. Comparelli; F. Italiano; A. Operamolla; A. Agostiano; G. M. Farinola; M. Trotta/congresso\_nome:PHOTOTECH: Photosynthetic proteins for technological applications: biosensors and biochips - COST ACTION TD1102 2nd PLENARY WORKSHOP/congresso\_luogo:Istanbul (Turchia)/congresso\_data:8-11 Aprile 2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**31)-Organic conjugated oligomers: a versatile class of molecules for photobiological systems**

A. Operamolla; R. Ragni; F. Milano; R. R. Tangorra; O. Hassan Omar; A. Agostiano; G. M. Farinola; M. Trotta

*Congresso annuale 2014 della Società Italiana di Fotobiologia, Trento, 11-13 Giugno 2014*

<http://www.cnr.it/prodotto/i/300028>

info:cnr-pdr/source/autori:A. Operamolla, R. Ragni, F. Milano, R. R. Tangorra, O. Hassan Omar, A. Agostiano, G. M. Farinola, M. Trotta/congresso\_nome:Congresso annuale 2014 della Società Italiana di Fotobiologia/congresso\_luogo:Trento/congresso\_data:11-13 Giugno 2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**32)-Bio-organic Hybrid Photoconverters from Organic Dyes and a Bacterial Photoenzyme**

G. M. Farinola; A. Operamolla; O. Hassan Omar; F. Milano; R. R. Tangorra; R. Ragni; S. La Gatta; A. Agostiano; M. Trotta

*Advances in Photocatalytic Materials for Energy and Environmental Sustainability: CIMTEC 6th Forum on New Materials, Montecatini Terme, 15-19 Giugno 2014*

<http://www.cnr.it/prodotto/i/300030>

info:cnr-pdr/source/autori:G. M. Farinola; A. Operamolla; O. Hassan Omar; F. Milano; R. R. Tangorra; R. Ragni; S. La Gatta; A. Agostiano; M. Trotta/congresso\_nome:Advances in Photocatalytic Materials for Energy and Environmental Sustainability: CIMTEC 6th Forum on New Materials/congresso\_luogo:Montecatini Terme/congresso\_data:15-19 Giugno 2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

### **33)-Organic conjugated light harvesting antennas for photosynthetic proteins**

R. Ragni; F. Milano; R. R. Tangorra; O. Hassan Omar; A. Operamolla; A. Agostiano; M. Trotta; G. M. Farinola

*10th Spanish-Italian Symposium on Organic Chemistry SISOC-X, Firenze, 17-20 Luglio 2014*

<http://www.cnr.it/prodotto/i/300031>

info:cnr-pdr/source/autori:R. Ragni, F. Milano, R. R. Tangorra, O. Hassan Omar, A. Operamolla, A. Agostiano, M. Trotta, G. M. Farinola/congresso\_nome:10th Spanish-Italian Symposium on Organic Chemistry SISOC-X/congresso\_luogo:Firenze/congresso\_data:17-20 Luglio 2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

### **34)-Organic conjugated light harvesting antennas for photosynthetic proteins**

R. Ragni; F. Milano; R. R. Tangorra; O. Hassan Omar; A. Operamolla; A. Agostiano; M. Trotta; G. M. Farinola

*European Optical Society Annual Meeting EOSAM 2014, Berlino (DE), 15-19 Settembre 2014*

<http://www.cnr.it/prodotto/i/300033>

info:cnr-pdr/source/autori:R. Ragni, F. Milano, R. R. Tangorra, O. Hassan Omar, A. Operamolla, A. Agostiano, M. Trotta, G. M. Farinola/congresso\_nome:European Optical Society Annual Meeting EOSAM 2014/congresso\_luogo:Berlino (DE)/congresso\_data:15-19 Settembre 2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

### **35)-Hybrid photoconverters from molecular dyes and photosynthetic bacteria**

G. M. Farinola; A. Operamolla; O. Hassan Omar; R. R. Tangorra; F. Milano; R. Ragni; S. La Gatta; A. Agostiano; M. Trotta

*II International Workshop on Photovoltaics: new frontiers and applications, Lecce, 16-18 ottobre*

<http://www.cnr.it/prodotto/i/300034>

info:cnr-pdr/source/autori:G. M. Farinola, A. Operamolla, O. Hassan Omar, R. R. Tangorra, F. Milano, R. Ragni, S. La Gatta, A. Agostiano, M. Trotta/congresso\_nome:II International Workshop on Photovoltaics: new frontiers and applications/congresso\_luogo:Lecce/congresso\_data:16-18 ottobre/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**36)-Hybrid photoconverters from molecular dyes and photosynthetic bacteria**

G. M. Farinola; O. Hassan Omar; A. Operamolla; R. R. Tangorra; R. Ragni; F. Milano; A. Agostiano; M. Trotta

*2014 MRS Fall Meeting & Exhibit, Boston (USA), 30 Novembre - 5 Dicembre*

<http://www.cnr.it/prodotto/i/300035>

info:cnr-pdr/source/autori:G. M. Farinola, O. Hassan Omar, A. Operamolla, R. R. Tangorra, R. Ragni, F. Milano, A. Agostiano, M. Trotta/congresso\_nome:2014 MRS Fall Meeting & Exhibit/congresso\_luogo:Boston (USA)/congresso\_data:30 Novembre - 5 Dicembre/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**37)-Photoactive Nanostructures from Photosynthetic Microorganisms and pi-Conjugated Molecules**

G. M. Farinola; A. Operamolla; F. Milano; R. R. Tangorra; O. Hassan Omar; R. Ragni; A. Agostiano; M. Trotta

*2014 MRS Fall Meeting & Exhibit, Boston (USA), 30 Novembre - 5 Dicembre*

<http://www.cnr.it/prodotto/i/300036>

info:cnr-pdr/source/autori:G. M. Farinola, A. Operamolla, F. Milano, R. R. Tangorra, O. Hassan Omar, R. Ragni, A. Agostiano, M. Trotta/congresso\_nome:2014 MRS Fall Meeting & Exhibit/congresso\_luogo:Boston (USA)/congresso\_data:30 Novembre - 5 Dicembre/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**38)-MEMBRO DEL COMITATO ORGANIZZATORE, "Solutions for Solvation: an international workshop to celebrate Jacopo Tomasi on the occasion of his 80th birthday"**

Antonio Rizzo

2014

<http://www.cnr.it/prodotto/i/300379>

**39)-Flavylium salts as bio-inspired synthetic analogues of anthocyanins for dye-sensitized solar cells.**

Giuseppe Calogero; Iliaria Citro; Gaetano Di Marco; Stefano Caramori; Carlo Alberto Bignozzi; Alessandro Sinopoli; Vesselin Petrov; Ana M. Diniz; A. Jorge Parola; Fernando Pina.

*HOPV14 - 6th International Conference on Hybrid and Organic Photovoltaics, Lausanne, 11th to 14th May 2014*

<http://www.cnr.it/prodotto/i/300450>

info:cnr-pdr/source/autori:Giuseppe Calogero, Iliaria Citro, Gaetano Di Marco, Stefano Caramori, Carlo Alberto Bignozzi, Alessandro Sinopoli, Vesselin Petrov, Ana M. Diniz, A. Jorge Parola, Fernando Pina./congresso\_nome:HOPV14 - 6th International Conference on Hybrid and Organic Photovoltaics/congresso\_luogo:Lausanne/congresso\_data:11th to 14th May 2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**40)-[3]Computational, spectrophotometric and photoelectrochemical studies of eco-friendly synthetic ions of novel 3',4'-dihydroxy-7-(N,N-diphenylamino)flavylium (JAD90) and its analogues as sensitizers in dye-sensitized solar cells.**

Ilaria Citro; Giuseppe Calogero; Gaetano Di Marco; Stefano Caramori; Carlo Alberto Bignozzi; João Avóç; A. Jorge Parola; Fernando Pina.

*HOPV14 - 6th International Conference on Hybrid and Organic Photovoltaics, Lausanne, 11th to 14th May 2014*

<http://www.cnr.it/prodotto/i/300454>

info:cnr-pdr/source/autori:Ilaria Citro, Giuseppe Calogero, Gaetano Di Marco, Stefano Caramori, Carlo Alberto Bignozzi, João Avóç, A. Jorge Parola, Fernando Pina./congresso\_nome:HOPV14 - 6th International Conference on Hybrid and Organic Photovoltaics/congresso\_luogo:Lausanne/congresso\_data:11th to 14th May 2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**41)-Graphene and Carbon Nanotubes as counter-electrode for dye-sensitized solar cell**

Giuseppe Calogero; Francesco Bonaccorso; Ilaria Citro; Cristina Crupi; Vittorio Pellegrini; Gaetano Di Marco

*HOPV14 - 6th International Conference on Hybrid and Organic Photovoltaics, Lausanne, 11th to 14th May 2014*

<http://www.cnr.it/prodotto/i/300459>

info:cnr-pdr/source/autori:Giuseppe Calogero, Francesco Bonaccorso, Ilaria Citro, Cristina Crupi, Vittorio Pellegrini, Gaetano Di Marco/congresso\_nome:HOPV14 - 6th International Conference on Hybrid and Organic Photovoltaics/congresso\_luogo:Lausanne/congresso\_data:11th to 14th May 2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**42)-A complete study on synthetic analogues of anthocyanins as bio-inspired sensitizers for dye-sensitized solar cells**

G. Calogero; I. Citro; A. Bartolotta; G. Di Marco; A. Sinopoli; S. Caramori; C. A. Bignozzi; V. Petrov; A. M. Diniz A. J. Parola; F. Pina.

*XXV CONGRESSO DELLA SOCIETA' CHIMICA ITALIANA, Rende (CS), 7-12 Settembre 2014*

<http://www.cnr.it/prodotto/i/300514>

info:cnr-pdr/source/autori:G. Calogero, I. Citro, A. Bartolotta, G. Di Marco, A. Sinopoli, S. Caramori, C. A. Bignozzi, V. Petrov, A. M. Diniz A. J. Parola, F. Pina./congresso\_nome:XXV CONGRESSO DELLA SOCIETA' CHIMICA ITALIANA/congresso\_luogo:Rende (CS)/congresso\_data:7-12 Settembre 2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**43)-Computational and experimental studies of novel 3',4'-dihydroxy-7-(N,N-diphenylamino) flavylium as sensitizers in dye-sensitized solar cells.**

I. Citro; G. Calogero; G. Di Marco; S. Caramori; C. A. Bignozzi; J. Avó; A. J.Parola; F. Pina  
*XXV CONGRESSO DELLA SOCIETA' CHIMICA ITALIANA, Rende (CS), 7-12 Settembre 2014*  
<http://www.cnr.it/prodotto/i/300518>

info:cnr-pdr/source/autori:I. Citro, G. Calogero,G. Di Marco, S. Caramori, C. A. Bignozzi, J, Avó, A. J.Parola, F. Pina/congresso\_nome:XXV CONGRESSO DELLA SOCIETA' CHIMICA ITALIANA/congresso\_luogo:Rende (CS)/congresso\_data:7-12 Settembre 2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**44)-VIGOR: Applicazioni geotermiche per uno sviluppo sostenibile. Produzione di calore ed energia elettrica**

S. Abate; S. Botteghi; F. Caiozzi; G. Desiderio; G. Di Bella; A. Donato; G. Lombardo; A. Manzella; A. Santilano; A. Sapienza

*PISA: CNR - IGG (PISA), 2014*

<urn:isbn:9788879580120>

info:cnr-pdr/source/autori:S. Abate, S. Botteghi, F. Caiozzi, G. Desiderio, G. Di Bella, A. Donato, G. Lombardo, A. Manzella, A. Santilano, A. Sapienza/titolo:VIGOR: Applicazioni geotermiche per uno sviluppo sostenibile. Produzione di calore ed energia elettrica/editore:

/anno:2014

**45)-Nanoantenne ottiche per le spettroscopie Raman Surface e tip enhanced**

P. G. Gucciardi

*Seconda scuola nazionale di biosensori ottici e biofotonica, Otranto (Italy), 15 - 20 settembre 2014*

<http://www.cnr.it/prodotto/i/301812>

info:cnr-pdr/source/autori:P. G. Gucciardi/congresso\_nome:Seconda scuola nazionale di biosensori ottici e biofotonica/congresso\_luogo:Otranto (Italy)/congresso\_data:15 - 20 settembre 2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**46)-Polarization properties of the SERS Photons emitted by individual and coupled linear nanoantennas**

P. G. Gucciardi

*Surface Enhanced Spectroscopy SES 2014, Chemnitz, 7 - 10 August 2014*

<http://www.cnr.it/prodotto/i/301818>

info:cnr-pdr/source/autori:P. G. Gucciardi/congresso\_nome:Surface Enhanced Spectroscopy SES 2014/congresso\_luogo:Chemnitz/congresso\_data:7 - 10 August 2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**47)-How a nanoantenna modifies the polarization state of the SERS photons**

P. G. Gucciardi

*Journee pleniere du GDR Plasmonique moleculaire, spectroscopie exaltees, Paris, 2-3 June 2014*

<http://www.cnr.it/prodotto/i/301824>

info:cnr-pdr/source/autori:P. G. Gucciardi/congresso\_nome:Journee pleniere du GDR Plasmonique moleculaire, spectroscopie exaltees/congresso\_luogo:Paris/congresso\_data:2-3 June 2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**48)-Novel architectures for plasmon-enhanced vibrational spectroscopy and biomolecular sensing**

C. D'Andrea; B. Fazio; J. Bochterle; M. Cottat; A. Toma; A. Foti; E. Messina; O. M. Maragò; E. Di Fabrizio; M. Lamy de La Chapelle; A. Pucci; P. G. Gucciardi

*EPIOPTICS-13, Erice, 26 July - 1 August 2014*

<http://www.cnr.it/prodotto/i/301872>

info:cnr-pdr/source/autori:C. D'Andrea, B. Fazio, J. Bochterle, M. Cottat, A. Toma, A. Foti, E. Messina, O. M. Maragò, E. Di Fabrizio, M. Lamy de La Chapelle, A. Pucci, P. G. Gucciardi/congresso\_nome:EPIOPTICS-13/congresso\_luogo:Erice/congresso\_data:26 July - 1 August 2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**49)-Optically induced aggregation of gold nanorods for SERS biosensing in liquid environment**

B. Fazio; C. D'Andrea; E. Messina; A. Foti; G. Calogero; V. Villari; N. Micali; O. M. Maragò; P. G. Gucciardi

*Nanospectroscopy I, Tuebingen (Germania), March 24 - 28, 2014*

<http://www.cnr.it/prodotto/i/301931>

info:cnr-pdr/source/autori:B. Fazio, C. D'Andrea, E. Messina, A. Foti, G. Calogero, V. Villari, N. Micali, O. M. Maragò, and P. G. Gucciardi/congresso\_nome:Nanospectroscopy I/congresso\_luogo:Tuebingen (Germania)/congresso\_data:March 24 - 28, 2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**50)-VIGOR: Sviluppo geotermico nelle Regioni della Convergenza**

ALBANESE C.; ALLANS DOTTIR A.; AMATO L.; ARDIZZONE F.; BELLANI S.; BERTINI G.; BOTTEGHI S.; BRUNO D.; CAIELLI G.; CAIOZZI F.; CAPUTI A.; CATALANO R.; CHIESA S.; CONTINO A.; D'ARPA S.; DE ALTERIIS G.; DE FRANCO R.; DELLO BUONO D.; DESTRO E.; DI SIPIO E.; DONATO A.; DOVERI M.; DRAGONE

V.; ELLERO A.; FEDI M.; FERRANTI L.; FLORIO G.; FOLINO M.; GALGARO A.; GENNARO C.; GIANELLI G.; GIARETTA A.; GOLA G.; GRECO G.; IAQUINTA P.; INVERSI B.; IORIO M.; IOVINE G.; IZZI F.; LA MANNA M.; LIVANI M.; LOMBARDO G.; LOPEZ N.; MAGNELLI D.; MAIO D.; MANZELLA A.; MARCHESINI I.; MARTINI G.; MASETTI G.; MERCADANTE A.; MINISSALE A.; MONTANARI D.; MONTEGROSSI G.; MONTELEONE S.; MUTO F.; MUTTONI G.; NORINI G.; PELLIZZONE A.; PEROTTA P.; PETRACCHINI L.; PIERINI S.; POLEMIO M.; RIZZO E.; RUSSO L.; SABATINO M.; SANTALOAIA F.; SANTILANO A.; SCROCCA S.; SOLERI S.; TANSI C.; TERRANOVA O.; TEZA G.; TRANCHIDA G.; TRUMPY E.; URICCHIO V. E VALENTI V.

*Pisa: CNR-IGG, 2014*

[urn:isbn:9788879580113](http://nbn-resolving.org/urn:isbn:9788879580113)

info:cnr-pdr/source/autori:ALBANESE C., ALLANSDOTTIR A. , AMATO L., ARDIZZONE F., BELLANI S., BERTINI G., BOTTEGHI S., BRUNO D. , CAIELLI G., CAIOZZI F., CAPUTI A., CATALANO R., CHIESA S., CONTINO A. , D'ARPA S., DE ALTERIIS G. , DE FRANCO R., DELLO BUONO D., DESTRO E., DI SIPIO E., DONATO A., DOVERI M., DRAGONE V., ELLERO A., FEDI M., FERRANTI L., FLORIO G., FOLINO M., GALGARO A. , GENNARO C. , GIANELLI G., GIARETTA A., GOLA G., GRECO G., IAQUINTA P., INVERSI B., IORIO M. , IOVINE G., IZZI F., LA MANNA M., LIVANI M., LOMBARDO G., LOPEZ N., MAGNELLI D., MAIO D., MANZELLA A. , MARCHESINI I., MARTINI G., MASETTI G., MERCADANTE A., MINISSALE A., MONTANARI D., MONTEGROSSI G., MONTELEONE S. , MUTO F., MUTTONI G., NORINI G., PELLIZZONE A. , PEROTTA P., PETRACCHINI L., PIERINI S., POLEMIO M., RIZZO E., RUSSO L., SABATINO M. , SANTALOAIA F., SANTILANO A. , SCROCCA S., SOLERI S., TANSI C., TERRANOVA O., TEZA G. , TRANCHIDA G., TRUMPY E., URICCHIO V. E VALENTI V./titolo:VIGOR: Sviluppo geotermico nelle Regioni della Convergenza/editore:

/anno:2014

### **51)-Stability of singular, asymmetric stationary states of the Vlasov equation**

Nocera L; Palumbo LJsubjectBGK wavessubjectVlasov equationssubjectFourier Transforms  
*100th National Congress of the Italian Physical Society, pp. 37–37, Pisa, 22-26/09/2014*

<http://puma.isti.cnr.it>

info:cnr-pdr/source/autori:Nocera L; Palumbo LJ/congresso\_nome:100th National Congress of the Italian Physical Society/congresso\_luogo:Pisa/congresso\_data:22-26/09/2014/anno:2014/pagina\_da:37/pagina\_a:37/intervallo\_pagine:37–37

### **52)-The Eigenfunctions of the Multi-species Liouville Operator for Solitary Waves, Phase-space Holes and Double Layers**



Nocera L; Palumbo LJsubjectParticle transport and kineticssubjectLiouville operatorsubjectVlasov operatorsubjectinhomogeneitysubjectsolitary wavessubjectphase-space holessubjectdouble layerssubjectcontinuous spectrasubjectFourier analysis

*pp.1–24, 2014*

<http://puma.isti.cnr.it>

**53)-Bloch Eigenfunctions of the Inhomogeneous Liouville Operator in the Fourier Transformed Velocity Space**

Nocera L; Palumbo LJsubjectParticle transport and kineticssubjectLiouville operatorsubjectVlasov operatorsubjectinhomogeneitysubjectstability analysissubjectcontinuous spectrasubjectFourier analysis

*pp.1–25, 2014*

<http://puma.isti.cnr.it>

**54)-The Permittivity of a Multispecies Ionized Gas to Electrostatic Perturbations: a Fourier Transform, Integral Equation Approach Through Singular Eigenfunction Reconstruction**

Palumbo LJ; Nocera LsubjectVlasov operatorsubjectinhomogeneitysubjectinstability analysissubjectcontinuous spectrasubjectvan Kampen - Case eigenfunctionssubjectFourier analysis

*pp.1–24, 2014*

<http://puma.isti.cnr.it>

**55)-The Eigenfunctions of the Inhomogeneous Free-streaming Collisionless Boltzmann Operator in the Fourier Transformed Velocity Space**

Palumbo LJ; Nocera LsubjectParticle transport and kineticssubjectcollisionless Boltzmann equationsubjectLiouville operatorsubjectinhomogeneitysubjectcontinuous spectrasubjectFourier analysis

*pp.1–16, 2014*

<http://puma.isti.cnr.it>

**56)-Photocatalytic tests to evaluate photocatalytic performances of TiO<sub>2</sub> -based nanocatalyst**

Roberto Comparelli; Francesca Petronella; Alessandra Truppi; Chiara Ingrosso; Marinella Striccoli; M. Lucia Curri; Sapia Murgolo; Giuseppe Mascolo; Viviane Yargeau; Frederic Pelletier; Benedicte Thiebaut; Okorn Mekasuwandumrong; María Casado; Francisco Manuel Castro; Ignacio Calvo

2014

<http://www.cnr.it/prodotto/i/321773>

**57)-Photocatalytic Performances of mixed TiO<sub>2</sub>-ZrO<sub>2</sub>, doped metal oxides and mixed doped metals**

S. Rtimi; O. Baghriche; R. Sanjines; C. Pulgarin; J. Kiwi; F. Pelletier; B. Thiebaut; R. Comparelli; F. Petronella; A. Truppi; C.; M. Striccoli; M. L. Curri; P. Pjyasan

2014

<http://www.cnr.it/prodotto/i/321785>

**58)-Laser-mediated nanoparticle synthesis and self-assembling**

Ossi P.M.; Agarwal N.R.; Fazio E.; Neri F.; Trusso S.

*Lasers in Materials Science, edited by M. Castillejo, P.M. Ossi., L. Zighilei, pp. 175–212.*

*Berlin Heidelberg: Springer, 2014*

[https://dx.doi.org/10.1007/978-3-319-02898-9\\_8](https://dx.doi.org/10.1007/978-3-319-02898-9_8)

info:cnr-pdr/source/autori:Ossi P.M., Agarwal N.R., Fazio E., Neri F., Trusso S./titolo:Laser-mediated nanoparticle synthesis and self-assembling/titolo\_volume:Lasers in Materials Science/curatori\_volume:M. Castillejo, P.M. Ossi., L. Zighilei/editore:

/anno:2014

**59)-Phage display as a tool for rapid in vitro cell characterization by fluorescence imaging and Raman spectroscopy**

Laura De Plano 1; Federica Calabrese 1; Germana Lentini 1; Marco Nicolò 1; Domenico Franco 1; Enza Fazio 2; Sebastiano Trusso 3; Alessandro Allegra 4; Fortunato Neri 2; Salvatore Guglielmino 1

*16th european congress on biotechnology, Edinburgh, 13-16 July*

<https://dx.doi.org/10.1016/j.nbt.2014.05.1870>

info:cnr-pdr/source/autori:Laura De Plano 1, Federica Calabrese 1, Germana Lentini 1, Marco

Nicolò 1, Domenico Franco 1, Enza Fazio 2, Sebastiano Trusso 3,

Alessandro Allegra 4, Fortunato Neri 2, Salvatore Guglielmino 1/congresso\_nome:16th european congress on biotechnology/congresso\_luogo:Edinburgh/congresso\_data:13-16 July/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**60)-Photoactive nanocrystal based materials at work for photodegradation**

Roberto Comparelli

*ASEAN-EU STI days Science Technology and Innovation Days, Bangkok (Thailand), 21-23 January 2014*

<http://www.cnr.it/prodotto/i/312603>

info:cnr-pdr/source/autori:Roberto Comparelli/congresso\_nome:ASEAN-EU STI days Science Technology and Innovation Days/congresso\_luogo:Bangkok (Thailand)/congresso\_data:21-23 January 2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

### **61)-Colloidal nanocrystals for energy conversion applications**

R. Comparelli; F. Petronella; A. Truppia; E. Binettia; A. Panniello; M.Striccoli; A. Agostiano; M. Lucia Curri

*XXV Congresso Nazionale della Società Chimica Italiana - SCI 2014, Rende (Italy), 7-12 september 2014*

<http://www.cnr.it/prodotto/i/312644>

info:cnr-pdr/source/autori:R. Comparelli, F. Petronella, A. Truppia, E. Binettia, A. Panniello, M.Striccoli, A. Agostiano, M. Lucia Curri/congresso\_nome:XXV Congresso Nazionale della Società Chimica Italiana - SCI 2014/congresso\_luogo:Rende (Italy)/congresso\_data:7-12 september 2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

### **62)-Fabrication of recoverable catalitically active magnetic beads**

Sofia Dembski; Klaus Rose; Katja Scherbaum; Johannes Prieschl; Roberto Comparelli; Francesca Petronella; Marinella Striccoli; Chiara Ingrosso; M. Lucia Curri; Audrey Bonnefond; Edurne Gonzalez; José Ramon Leiza; José Maria Asua  
2014

<http://www.cnr.it/prodotto/i/321799>

### **63)-Report on experimental conditions for NOx photodegradation**

Piera Ielpo; Giovanni Lasorella; Giuseppe Mascolo; Roberto Comparelli; M. Lucia Curri; María Casado; Francisco Manuel Castro; Ignacio Calvo; Emilio Blas; Jaime José Cubillo  
2014

<http://www.cnr.it/prodotto/i/321812>

### **64)-Report on experimental conditions on VOCs degradation**

Piyasan Praserttham; Akawat Sirisuk; Okorn Mekasuwandumrong; Piera Ielpo; Giovanni Lasorella; Giuseppe Mascolo; Roberto Comparelli; M. Lucia Curri; Maria Casado Barasa; Irene Sevilla de la Llave  
2014

<http://www.cnr.it/prodotto/i/321817>

### **65)-NANOPARTICLES IN MODEL BIOMEMBRANES: SELF-ASSEMBLY, INTERACTION AND STABILITY IN SOLUTION**

D. Lombardo; M.A. Kiselev; S. Magazù; P. Princi; P. Calandra

*Self-assembly in Nanostructures: From Modeling to Advanced Applications, Messina, 18 giugno 2014*

<http://www.cnr.it/prodotto/i/318385>

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**66)-Structure and Interaction of PAMAM Dendrimers and Model Lipid Membranes**

D. Lombardo; P Calandra; M. A. Kiselev

*Workshop on Biomaterials and Their Interactions with Biological and Model Membranes, Salou (Spagna), 20-21 Ottobre 2014*

<http://meeting.softmat.net/program/program-2011>

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**67)-COLLOIDAL NANOCRYSTALS AND HYBRID NANOSTRUCTURED MATERIALS FOR ENERGY CONVERSION AND STORAGE**

M.Striccoli

*2014 EMN (Energy Material Nanotechnology) East Meeting, Beijing, China, 12-15/05/2014*

<http://www.cnr.it/prodotto/i/315381>

info:cnr-pdr/source/autori:M.Striccoli/congresso\_nome:2014 EMN (Energy Material Nanotechnology) East Meeting/congresso\_luogo:Beijing, China/congresso\_data:12-15/05/2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**68)-Photocatalytic Nanomaterials**

Roberto Comparelli; Francesca Petronella; Alessandra Truppi; Chiara Ingrosso; Marinella Striccoli; M. Lucia Curri; Sofia Dembski; Klaus Rose; Katja Scherbaum; Johannes Prieschl; Piyasan Praserttham; Akawat Sirisuk; Okorn Mekasuwandumrong; Rachan Klaysri; Supamas Nokjan; Frederic Pelletier; Benedicte Thiebaut  
2014

<http://www.cnr.it/prodotto/i/320157>

**69)-Doped metal-oxides NPs for visible light photocatalysis and TiO<sub>2</sub> /CNT based heterostructures**

Roberto Comparelli; Francesca Petronella; Alessandra Truppi; Chiara Ingrosso; Marinella Striccoli; M. Lucia Curri Frederic Pelletier; Benedicte Thiebaut  
2014

<http://www.cnr.it/prodotto/i/320162>

**70)-Report V SAL PON MAAT**

Marinella Striccoli; Annamaria Panniello; Nicoletta Depalo  
2014

<http://www.cnr.it/prodotto/i/315353>

**71)-Report IV SAL PON MAAT**

Marinella Striccoli; Annamaria Panniello; Nicoletta Depalo  
2014

<http://www.cnr.it/prodotto/i/315333>

**72)-Effetto di campi elettrici nell'esperimento di Miller: uno studio da principi primi**

Saija; F.

*Knowledge Integration for Advanced & Sustainable System, Roma, 10/11/2014*

<http://www.cnr.it/prodotto/i/321268>

info:cnr-pdr/source/autori:Saija, F./congresso\_nome:Knowledge Integration for Advanced & Sustainable

System/congresso\_luogo:Roma/congresso\_data:10/11/2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine:

**73)-Influence of Water-DMSO Medium on Complex-Forming Properties of Crown Ether 18-Crown-e**

T.R. Usacheva; V. A. Sharnin; E. Matteoli

*Advances in Chemistry Research, pp. 127–156. Hauppauge, N.Y.: Nova Science Publisher, 2014*

<urn:isbn:978-1-63117-572-5>

info:cnr-pdr/source/autori:T.R. Usacheva, V. A. Sharnin, E. Matteoli/titolo:Influence of Water-DMSO Medium on Complex-Forming Properties of Crown Ether 18-Crown-e/titolo\_volume:Advances in Chemistry Research/curatori\_volume:/editore:

/anno:2014

**74)-Thermo-plasmonics in self-organized nanostructured materials**

De Sio, Luciano; Placido, Tiziana; Comparelli, Roberto; Curri, Lucia; Tabiryman, Nelson V.; Bunning, Timothy J.subjectHeat transfersubjectLiquid crystalssubjectNanomaterialssubjectNanomedicinesubjectPlasmonics

*2014 NSTI Nanotechnology Conference and Expo, NSTI-Nanotech 2014, pp. 297–300, 2014*

<http://www.scopus.com/record/display.url?eid=2-s2.0-84907406449&origin=inward>

info:cnr-pdr/source/autori:De Sio, Luciano; Placido, Tiziana; Comparelli, Roberto; Curri, Lucia; Tabiryman, Nelson V.; Bunning, Timothy J./congresso\_nome:2014 NSTI Nanotechnology Conference and Expo, NSTI-Nanotech 2014/congresso\_luogo:/congresso\_data:2014/anno:2014/pagina\_da:297/pagina\_a:300/intervallo\_pagine:297–300

**75)-Polarization dependent optical trapping of chiral microresonators**

M. G. Donato; J. Hernandez; A. Mazzulla; C. Provenzano; R. Saija; M. A. Iatì; A. Magazzù; P. Pagliusi; R. Bartolino; P. G. Gucciardi; O. M. Maragò; G. Cipparrone  
subjectchiralitysubjectoptical tweezerssubjectliquid crystalsubjectpolymers  
*Laser-light and Interactions with Particles (LIP2014)*, pp. ME-11 1–ME-11 3, Marseille (F),  
25-29 agosto 2014

[urn:isbn:978-2-9548080-0-0](http://urn.isbn:978-2-9548080-0-0)

info:cnr-pdr/source/autori:M. G. Donato, J. Hernandez, A. Mazzulla, C. Provenzano, R. Saija,  
M. A. Iatì, A. Magazzù, P. Pagliusi, R. Bartolino, P. G. Gucciardi, O. M. Maragò, G.  
Cipparrone/congresso\_nome:Laser-light and Interactions with Particles  
(LIP2014)/congresso\_luogo:Marseille (F)/congresso\_data:25-29 agosto  
2014/anno:2014/pagina\_da:ME-11 1/pagina\_a:ME-11 3/intervallo\_pagine:ME-11 1–ME-11 3

**76)-COD ID: 4122812**

Crasto, David; Barcaro, Giovanni; Stener, Mauro; Sementa, Luca; Fortunelli, Alessandro; Dass,  
Amala  
subjectX-ray Crystal structure  
2014

<http://www.cnr.it/prodotto/i/370555>

**77)-The influence of rigid amorphous fraction on crystallization kinetics of poly[(R)-3-hydroxybutyrate] and its role on properties deterioration upon storage**

M. L. Di Lorenzo; M.C. Righetti  
subjectPoly[(R)-3-hydroxybutyrate]subjectRigid amorphous  
fractions  
subjectCrystallization kinetics

*Workshop "IUPAC Italia: stato dell'arte e strategie future"*, Roma, 8 aprile 2014

<http://www.cnr.it/prodotto/i/388038>

info:cnr-pdr/source/autori:M. L. Di Lorenzo, M.C. Righetti/congresso\_nome:Workshop  
"IUPAC Italia: stato dell'arte e strategie future"/congresso\_luogo:Roma/congresso\_data:8 aprile  
2014/anno:2014/pagina\_da:/pagina\_a:/intervallo\_pagine: