

Peer-reviewed journal articles

1)-Conferring dichroic properties and optical responsiveness to polyolefins through organic chromophores and metal nanoparticles

Pucci A.; Ruggeri G.; Bronco S.; Bertoldo M.; Cappelli C.; Ciardelli F.subjectGOLD NANOPARTICLESsubjectPOLYETHYLENE FILMSsubjectPHOTOLUMINESCENT POLARIZERSsubjectPOLYMER BLENDSsubjectNANOCOMPOSITES

Progress in organic coatings (Print) 58 (2007): 105–116.

<https://dx.doi.org/10.1016/j.porgcoat.2006.08.018>

2)-Modification of gelatin by reaction with 1,6-diisocyanatohexane

Bertoldo, M; Bronco, S; Gragnoli, T; Ciardelli, FsubjectFILMSsubjectPROTEINS

Macromolecular bioscience (Print) 7 (2007): 328–338.

<https://dx.doi.org/10.1002/mabi.200600215>

3)-Poly(butylene terephthalate)/Poly(e-caprolactone) blends: Miscibility and thermal and mechanical properties

Di Lorenzo, M. L.; La Pietra, P.; Errico, M. E.; Righetti, M. C.; Angiuli, M.subjectConcentrationsubjectMechanical propertiessubjectMolar masssubjectPolyethylene terephthalatessubjectPolymer blends

Polymer engineering and science 47 (2007): 323–329.

<https://dx.doi.org/10.1002/pen.20711>

4)-Composition dependence and the nature of endothermic freezing and exothermic melting.

Ferrari C.; Tombari E.; Salvetti G.; Johari G.P.subjectCYCLODEXTRIN INCLUSION COMPLEXESsubjectHYDROGEN-BONDSsubjectHEXAHYDRATESubjectCALORIMETRY

The Journal of chemical physics 126 (2007).

<https://dx.doi.org/10.1063/1.2711179>

5)-Spontaneous liquifaction of isomerizable molecular crystals.

Tombari E. (1); Ferrari C. (1); Salvetti G. (1); Johari G.P. (2)subjectMAGNETIC-RESONANCE SPECTROSCOPYsubjectBETA-D-FRUCTOSEsubjectEQUILIBRIUMsubjectLIQUIDSsubjectSTATE

The Journal of chemical physics 126 (2007): 021107.

<https://dx.doi.org/10.1063/1.2432345>

6)-Kinetics and thermodynamics of sucrose hydrolysis from real-time enthalpy and heat capacity measurements.

Tombari E.; Salvetti G.; Ferrari C.; Johari G.P.subjectINVERSIONsubjectCALORIMETRYsubjectRELAXATIONsubjectACID

The journal of physical chemistry. B 111 (2007): 496–501.

<https://dx.doi.org/10.1021/jp067061p>

7)-An ab initio study of interaction-induced {NMR} shielding constants in mixed rare gas dimers

Antusek A.; Jaszunski, M.; Rizzo, A.

126 (2007): 074303–9.

<http://www.cnr.it/prodotto/i/39464>

info:cnr-pdr/source/autori:Antusek A.; Jaszunski, M.; Rizzo, A./titolo:An ab initio study of interaction-induced {NMR} shielding constants in mixed rare gas dimers/

8)-Investigation of electric-field-gradient-induced birefringence in H2 and D2

Buckingham, D. A.; Coriani, S.; Rizzo, A.

Theoretical Chemistry accounts (Print) 117 (2007): 969–977.

<http://www.cnr.it/prodotto/i/39465>

info:cnr-pdr/source/autori:Buckingham, D. A.; Coriani, S.; Rizzo, A./titolo:Investigation of electric-field-gradient-induced birefringence in H2 and D2/

9)-Comment on

Matteoli E.; Lepori L.subjectPREFERENTIAL SOLVATIONsubjectMIXTURES

111 (2007): 3069–3071.

<http://www.cnr.it/prodotto/i/39482>

info:cnr-pdr/source/autori:Matteoli E., Lepori L./titolo:Comment on/

10)-Poly(butylene terephthalate)/poly(epsilon-caprolactone) blends: Miscibility and thermal and mechanical properties.

Di Lorenzo M.L.; La Pietra P.; Errico M.E.; Righetti M.C.; Angiuli

M.subjectPOLYCARBONATE POLY(ETHYLENE-TEREPHTHALATE)

BLENDSsubjectESTER-INTERCHANGE REACTIONSsubjectTRANS-

ESTERIFICATIONsubjectMOLECULAR-WEIGHTsubjectPOLYMER BLENDS

Polymer engineering and science 47 (2007): 323–329.

<http://www.cnr.it/prodotto/i/39487>

info:cnr-pdr/source/autori:Di Lorenzo M.L., La Pietra P., Errico M.E., Righetti M.C., Angiuli M./titolo:Poly(butylene terephthalate)/poly(epsilon-caprolactone) blends: Miscibility and thermal and mechanical properties./

11)-Resolving surface details with reflection and fluorescence video-confocal profilometry

Benedetti P.A.; Guidarini D.; Cristoforetti G.; Legnaioli S.; Palleschi V.; Salvetti A.; Spiniello R.; Tognoni E.

Micron and microscopica acta 38 (2007): 104–108.

<http://www.cnr.it/prodotto/i/39622>

info:cnr-pdr/source/autori:Benedetti P.A., Guidarini D., Cristoforetti G., Legnaioli S., Palleschi V., Salvetti A., Spiniello R., Tognoni E./titolo:Resolving surface details with reflection and fluorescence video-confocal profilometry/

12)-'Ý -1,2,4,5-Tetrazine-N 1:N4-bis(pentaammineruthenium) tetracation: Synthesis and X-ray structure

Tampucci, Silvia; Belicchi Ferrari, Marisa; Calucci, Lucia; Pelosi, Giorgio; Denti, Gianfranco

subjecttetrazinesubjectrutheniumsubjectmixed valence complexes
Inorganica Chimica Acta (Testo stamp.) 360 (2007): 2814–2818.

<http://www.cnr.it/prodotto/i/39641>

info:cnr-pdr/source/autori:Tampucci, Silvia; Belicchi Ferrari, Marisa; Calucci, Lucia; Pelosi, Giorgio; Denti, Gianfranco/titolo:'Ý -1,2,4,5-Tetrazine-N 1:N4-bis(pentaammineruthenium) tetracation: Synthesis and X-ray structure/

13)-A test case for time-dependent density functional theory calculations of electronic circular dichroism: 2-chloro-4-methoxy-6- [(R)-1-phenylethylamino]-1,3,5- triazine

Alagona G.; Ghio* C.; Monti* S.

subjectSpectroscopic propertiesubjectPCMSubjectmPW1PW91-BH&HLYPsubjectCD spectrasubjectDeVoe model

Theoretical Chemistry accounts (Print) 117 (2007): 793–803.

<http://www.cnr.it/prodotto/i/39673>

info:cnr-pdr/source/autori:Alagona G., Ghio* C., Monti* S./titolo:A test case for time-dependent density functional theory calculations of electronic circular dichroism: 2-chloro-4-methoxy-6- [(R)-1-phenylethylamino]-1,3,5- triazine/

14)-Caco-2 cell permeability modelling: a neural network coupled genetic algorithm approach

Di Fenza* A.; Alagona G.; Ghio C.; Leonardi R.; Giolitti A.; Madami A.

subjectNeural networkssubjectGenetic algorithmsubjectCaco-2 cell permeabilitysubjectIntestinal absorptionsubjectOral bioavailability
Journal of computer-aided molecular design 21 (2007): 207–221.

<http://www.cnr.it/prodotto/i/39674>

info:cnr-pdr/source/autori:Di Fenza* A., Alagona G., Ghio C., Leonardi R., Giolitti A., Madami A./titolo:Caco-2 cell permeability modelling: a neural network coupled genetic algorithm approach/

15)-Competitive H-bonds in vacuo and in aqueous solution for N-protonated adrenaline and its monohydrated complexes

Alagona* G.; Ghio* C.

subjectB3LYP/6-31G*; B3LYP/6-311++G**subjectMP2/6-31G* correlation correctionssubjectThermal corrections BSSesubjectIEF-PCM Continuum solvent effectsubject4-(1-Hydroxy-2-methylamino-ethyl)benzene-1,2-diol

Journal of Computational Chemistry 28 (2007): 223–240.

<http://www.cnr.it/prodotto/i/39675>

info:cnr-pdr/source/autori:Alagona* G., Ghio* C./titolo:Competitive H-bonds in vacuo and in aqueous solution for N-protonated adrenaline and its monohydrated complexes/

16)-Computational prediction of the regio- and diastereoselectivity in a rhodium-catalyzed hydroformylation/cyclization domino process

Alagona* G.; Ghio* C.; Rocchiccioli S.subjectLANL2DZsubjectB3LYP/6-31G*subjectAnnulationsubjectSubstrate-induced diastereoselectivity
13 (2007): 823–837.

<http://www.cnr.it/prodotto/i/39676>

info:cnr-pdr/source/autori:Alagona* G., Ghio* C., Rocchiccioli S./titolo:Computational prediction of the regio- and diastereoselectivity in a rhodium-catalyzed hydroformylation/cyclization domino process/

17)-Theoretical Investigation of Tautomeric Equilibria for Isonicotinic Acid, 4-Pyridone, and Acetylacetone in Vacuo and in Solution

Nagy* P.I.; Alagona G.; Ghio* C.subjectDFT/B3LYP, 6-31G*, 6-311++G**subjectcc-pVTZ, QCISD(T), CCSD(T)subjectin solution charge derivation, RESP, CHELPGsubjectIEF-PCM continuum solvationsubjectFEP/MC, MD, THF, Methanol, Water
Journal of chemical theory and computation 3 (2007): 1249–1266.

<http://www.cnr.it/prodotto/i/39677>

info:cnr-pdr/source/autori:Nagy* P.I., Alagona G., Ghio* C./titolo:Theoretical Investigation of Tautomeric Equilibria for Isonicotinic Acid, 4-Pyridone, and Acetylacetone in Vacuo and in Solution/

18)-Structure of Ag clusters grown on the Fs-defected MgO (100) surface

Barcaro G.; Aprà E.; Fortunelli A.
Chemistry (Weinh., Print) 13 (2007): 6408–6418.

<https://dx.doi.org/10.1002/chem.200601796>

19)-A comparison between the absorption properties of the regular and Fs-defected MgO (100) surface

Barcaro G.; Causà M.; Fortunelli A.
Theoretical Chemistry accounts (Print) 118 (2007): 807–812.

<https://dx.doi.org/10.1007/s00214-007-0324-4>

20)-Structure and diffusion of small Ag and Au clusters on the regular MgO(100) surface

Barcaro G.; Fortunelli A.
New journal of physics 9 (2007): 22–34.

<https://dx.doi.org/10.1088/1367-2630/9/2/022>

21)-A magic Pd-Ag Binary Cluster on the Fs-defected MgO(100) Surface

Barcaro G.; Fortunelli A.
Journal of physical chemistry. C 111 (2007): 11384–11389.

<https://dx.doi.org/10.1021/jp072263m>

22)-Magic silver cluster on a MgO(100) terrace with defects

Barcaro G.; Fortunelli A.

Physical review. B, Condensed matter and materials physics 76 (2007): 165412–165412.
<https://dx.doi.org/10.1103/PhysRevB.76.165412>

23)-Epitaxy, truncations, and overhangs in palladium nanoclusters adsorbed on MgO(100).

Barcaro G.; Fortunelli A.; Rossi G.; Nita F.; Ferrando R.
Physical review letters (Print) 98 (2007): 156101–156101.
<https://dx.doi.org/10.1103/PhysRevLett.98.156101>

24)-The structure of a TiO_x zig-zag-like monolayer on Pt(111)

Barcaro G.; Sedona F.; Fortunelli A.; Granozzi G.
Journal of physical chemistry. C 111 (2007): 6095–6102.
<https://dx.doi.org/10.1021/jp070820z>

25)-A mixed structural motif in 34-atom Pd-Pt clusters

Paz-Borbon L. O.; Johnston R. L.; Barcaro G.; Fortunelli A.
Journal of physical chemistry. C 111 (2007): 2936–2941.
<https://dx.doi.org/10.1021/jp0674165>

26)-Structures and Energetics of 98-atom Pd-Pt Nanoalloys: Potential Stability of the Leary Tetrahedron for Bimetallic Nanoparticles

PAZ-BORBON L. O; MORTIMER-JONES T. V; JOHNSTON R. L; POSADA-AMARILLAS A; BARCARO G; FORTUNELLI A.
PCCP. Physical chemistry chemical physics (Print) 9 (2007): 5202–5208.
<https://dx.doi.org/10.1039/b707136a>

27)-The decay of the C 1s -> 2 pi (II)-I-3 inner-shell excited state of CO

Feyer V.; Bolognesi P.; Coreno M.; Prince K.C.; Avaldi L.; Jansik B.; Carravetta V.subjectCOsubjectRESONANT AUGER DECAYSUBJECTDARK STATESsubjectEXPERIMENTsubjectcomputational spectroscopy
Journal of physics. B, Atomic molecular and optical physics (Print) 40 (2007): F35–F42.
<https://dx.doi.org/10.1088/0953-4075/40/3/F02>

28)-Probing the potential energy surface by high-resolution x-ray absorption spectrum: The umbrella motion of the core-excited CH₃ free radical

Alagia M.; M. Lavolee; R. Richter; U. Ekstrom; V. Carravetta; D. Stranges; B. Brunetti; S. Strangessubjectradical CH3subjectNEXAFSsubjectumbrellalike vibrationssubjectexperimentssubjecttheory
Physical review. A 76 (2007): 22509–22513.
<https://dx.doi.org/10.1103/PhysRevA.76.022509>

29)-Potential energy curves of the quasi-stable states of CO₂⁺ determined using Auger spectroscopy

Puttner R.; X.-J. Liu; H. Fukuzawa; T. Tanaka; M. Hoshino; H. Tanaka; J. Harries; Y. Tamenori; V. Carravetta; K. Ueda
subjectCO dicationssubjectpotential curvessubjectAuger decaysubjectexperimentsubjecttheory
Chemical physics letters (Print) 445 (2007): 6–11.
<https://dx.doi.org/10.1016/j.cplett.2007.07.030>

30)-Electron transfer during the dissociation of CH₃F⁺ produced by resonant photoemission following F 1s excitation

Prumper G.; V. Carravetta; Y. Muramatsu; Y. Tamenori; M. Kitajima; H. Tanaka; C. Makochekanwa; M. Hoshino; X. J. Liu; K. Ueda
subjectCH₃Fsubjectresonant photoemissionsubjectdissociationsubjectexperimentsubjecttheory
Physical review. A 76 (2007): 52705–52709.
<http://www.cnr.it/prodotto/i/39765>

info:cnr-pdr/source/autori:Prumper G. , V. Carravetta, Y. Muramatsu, Y. Tamenori, M. Kitajima, H. Tanaka, C. Makochekanwa, M. Hoshino, X. J. Liu and K. Ueda/titolo:Electron transfer during the dissociation of CH₃F⁺ produced by resonant photoemission following F 1s excitation/

31)-Measurement of the Stark broadening of atomic emission lines in non optically thin plasmas by Laser-Induced Breakdown Spectroscopy Technique

El Sherbini A.; Th. El Sherbini; H. Hegazy; G.Cristoforetti; S.Legnaioli; L.Pardini; V.Palleschi; A.Salveti; E. Tognoni
Spectroscopy letters (Print) 40 (2007): 643–658.
<http://www.cnr.it/prodotto/i/39774>

info:cnr-pdr/source/autori:El Sherbini A., Th. El Sherbini, H. Hegazy, G.Cristoforetti, S.Legnaioli, L.Pardini, V.Palleschi, A.Salveti and E. Tognoni/titolo:Measurement of the Stark broadening of atomic emission lines in non optically thin plasmas by Laser-Induced Breakdown Spectroscopy Technique/

32)-Thermodynamic study of (perfluoroalkane plus alkane) mixtures: Excess and solvation enthalpies

Duce Celia(1); Tine Maria Rosaria(1); Lepori Luciano; Matteoli Enrico
subjectexcess enthalpysubjectpartial molar enthalpysubjectsolvationsubjectalkanessubjectperfluoroalkanes
Journal of Chemical Thermodynamics 39 (2007): 1346–1537.
<http://www.cnr.it/prodotto/i/39799>

info:cnr-pdr/source/autori:Duce Celia(1), Tine Maria Rosaria(1), Lepori Luciano, Matteoli Enrico/titolo:Thermodynamic study of (perfluoroalkane plus alkane) mixtures: Excess and solvation enthalpies/

33)-Calorimetry of edible oils: Isothermal freezing curve for assessing extra-virgin olive oil storage history

Angiuli Marco; Ferrari Carlo; Righetti Maria Cristina; Tombari Elpidio; Salvetti Giuseppe
subjectolive oil calorimetrisubjectlight and dark storagesubjectolive oil phase

European journal of lipid science and technology (Print) 109 (2007): 1010–1014.

<http://www.cnr.it/prodotto/i/39800>

info:cnr-pdr/source/autori:Angiuli Marco, Ferrari Carlo, Righetti Maria Cristina, Tombari Elpidio, Salvetti Giuseppe/titolo:Calorimetry of edible oils: Isothermal freezing curve for assessing extra-virgin olive oil storage history/

34)-Promoting calorimetry for olive oil authentication

Ferrari C.; Angiuli M.; Tombari E.; Righetti M.C.; Matteoli E.; Salvetti G.subjectisothermal crystallizationsubjectmeltingsubjectdifferential scanning calorimetrysubjectolive oil authenticationsubjectpolymorphism

Thermochimica Acta 459 (2007): 58–63.

<http://www.cnr.it/prodotto/i/39802>

info:cnr-pdr/source/autori:Ferrari C., Angiuli M., Tombari E., Righetti M.C., Matteoli E., Salvetti G./titolo:Promoting calorimetry for olive oil authentication/

35)-Poly(butylene terephthalate)/poly(epsilon-caprolactone) blends: Influence of PCL molecular mass on PBT melting and crystallization behavior

Righetti M.C.; Di Lorenzo M.L.; Angiuli M.; Tombari E.; La Pietra P.subjectPolymeric blendssubjectCrystallization kineticssubjectMelting behaviorsubjectDSC (differential scanning calorimetry)subjectOptical microscopy

European Polymer Journal 43 (2007): 4726–4738.

<http://www.cnr.it/prodotto/i/39803>

info:cnr-pdr/source/autori:Righetti M.C., Di Lorenzo M.L., Angiuli M., Tombari E., La Pietra P./titolo:Poly(butylene terephthalate)/poly(epsilon-caprolactone) blends: Influence of PCL molecular mass on PBT melting and crystallization behavior/

36)-Vibrational and configurational heat capacity of poly(vinyl acetate) from dynamic measurements

Tombari E.; Ziparo C.; Salvetti G.; (*)Johari G.P.subjectDIFFERENTIAL SCANNING CALORIMETRYsubjectNARAYANASWAMY-MOYNIHAN MODELsubjectTEMPERATURE-MODULATED DSCsubjectGLASS-TRANSITIONsubjectEXCESS ENTROPY

The Journal of chemical physics 127 (2007): 014905.

<https://dx.doi.org/10.1063/1.2747596>

37)-Relaxation during polymerization on slow heating and the vibrational heat capacity of the polymers

Ferrari C; Tombari E; Salvetti G; (*)Johari GPsubjectDIFFERENTIAL SCANNING CALORIMETRYsubjectTEMPERATURE-MODULATED DSCsubjectGLASS-TRANSITIONsubjectDIELECTRIC-RELAXATIONsubjectSECONDARY RELAXATIONS

127 (2007): 024903.

<http://www.cnr.it/prodotto/i/39806>

info:cnr-pdr/source/autori:Ferrari C, Tombari E, Salvetti G, (*)Johari GP/titolo:Relaxation during polymerization on slow heating and the vibrational heat capacity of the polymers/

38)-Vibronic induced one- and two-photon absorption in a charge-transfer stilbene derivate

Lin, N.; Zhao, X.; Rizzo, A.; Luo, Y.

126 (2007): 244509–8.

<http://www.cnr.it/prodotto/i/39911>

info:cnr-pdr/source/autori:Lin, N.; Zhao, X.; Rizzo, A.; Luo, Y./titolo:Vibronic induced one- and two-photon absorption in a charge-transfer stilbene derivate/

39)-An ab initio investigation of the Buckingham birefringence of furan, thiophene and selenophene in cyclohexane solution

Rizzo, A.; Frediani, L.; Ruud, K.

127 (2007): 164321–10.

<http://www.cnr.it/prodotto/i/39914>

info:cnr-pdr/source/autori:Rizzo, A.; Frediani, L.; Ruud, K./titolo:An ab initio investigation of the Buckingham birefringence of furan, thiophene and selenophene in cyclohexane solution/

40)-Ab initio study of the two-photon circular dichroism in chiral natural amino acids

Jansík, B.; Rizzo, A.; Ågren, H.subjectTwo-photonsubjectCircular dichroismsubjectNonlinear opticssubjectAb initio studysubjectAmino acids

111 (2007): 446–460.

<http://www.cnr.it/prodotto/i/39948>

info:cnr-pdr/source/autori:Jansík, B.; Rizzo, A.; Ågren, H./titolo:Ab initio study of the two-photon circular dichroism in chiral natural amino acids/

41)-Probing the potential energy surface by high resolution X-Ray absorption spectroscopy: the umbrella motion of the core-excited CH₃ free radicals

M. Alagia(1-2); M. Lavollee; R. Richter; U. Ekstrom; V. Carravetta (6); D. Stranges; B. Brunetti(1); S. Strangessubjectradical CH₃subjectNEXAFSsubjectumbrellalike vibrationssubjectexperimentssubjecttheory

Physical review. A 76 (2007): 022509.

<https://dx.doi.org/10.1103/PhysRevA.76.022509>

42)-Recent progress in the computation of non linear optical properties of chiral systems

Rizzo A.subjectChiralitysubjectNonlinear optical propertiessubjectFaraday effectssubjectTwo-photon circular dichroismsubjectAb initio calculations

963 (2007): 379–388.

<http://www.cnr.it/prodotto/i/66420>

info:cnr-pdr/source/autori:Rizzo A./titolo:Recent progress in the computation of non linear optical properties of chiral systems/

43)-High-field electron paramagnetic resonance in polymers and glasses: criteria for the optimal choice of the spin probe

Bercu, V; Martinelli, M; Massa, CA; Pardi, LA; Leporini, DsubjectSUPERCOOLED LIQUIDSsubjectMagnetic ResonancessubjectGlasssubjectPolymerssubjectDynamics

Journal of Optoelectronics and Advanced Materials (Print) 9 (2007): 1785–1788.

<http://www.cnr.it/prodotto/i/167051>

info:cnr-pdr/source/autori:Bercu, V; Martinelli, M; Massa, CA; Pardi, LA; Leporini, D/titolo:High-field electron paramagnetic resonance in polymers and glasses: criteria for the optimal choice of the spin probe/

44)-Sensitivity of high-field electron paramagnetic resonance to the reorientation of molecular guests in glassy polymers

Bercu, V; Martinelli, M; Massa, CA; Pardi, LA; Leporini, DsubjectSPIN-RESONANCESsubjectFAST DYNAMICSsubjectPOLYSTYRENESubjectGlasssubjectPolymers

Philosophical magazine (2003, Print) 87 (2007): 795–798.

<https://dx.doi.org/10.1080/14786430601032378>

45)-Enthalpy-based determination of crystalline, mobile amorphous and rigid amorphous fractions in semicrystalline polymers - Poly(ethylene terephthalate)

M. C. Righetti; E. Tombari; M. Angiuli; M. L. Di Lorenzsubjectthree-phase systemssubjectcrystalline fractionssubjectmobile amorphous fractionssubjectrigid amorphous fractionssubjectenthalpy

Thermochimica Acta 462 (2007): 15–24.

<http://www.cnr.it/prodotto/i/169223>

info:cnr-pdr/source/autori:M. C. Righetti, E. Tombari, M. Angiuli, M. L. Di Lorenzo/titolo:Enthalpy-based determination of crystalline, mobile amorphous and rigid amorphous fractions in semicrystalline polymers - Poly(ethylene terephthalate)/

46)-Self-decelerated crystallization in poly(butylene terephthalate)/poly(e-caprolactone) blends

Di Lorenzo M.L.; Righetti

M.C.subjectblendssubjectcrystallizationsubjectdiffusionsubjectmiscibility

Journal of polymer science. Part B, Polymer physics 45 (2007): 3148–3155.

<http://www.cnr.it/prodotto/i/169579>

info:cnr-pdr/source/autori:Di Lorenzo M.L., Righetti M.C./titolo:Self-decelerated crystallization in poly(butylene terephthalate)/poly(e-caprolactone) blends/

47)-Multi-frequency high-field EPR study of (H⁺)(e⁻) pairs localized at the surface of polycrystalline MgO

Chiesa M.; Giamello E.; Annino G.; Massa C.A.; Murphy D.M.subjectHigh-field EPRsubjectH-e pairssubjectSurface propertiessubjectMgO crystal

Chemical physics letters (Print) 438 (2007): 285–289.

<http://www.cnr.it/prodotto/i/169761>

info:cnr-pdr/source/autori:Chiesa M., Giamello E., Annino G., Massa C.A., Murphy D.M./titolo:Multi-frequency high-field EPR study of (H⁺)(e⁻) pairs localized at the surface of polycrystalline MgO/

48)-Investigation of the amino acids glycine, proline and methionine by photoemission spectroscopy

Plekan, O; Feyer, V; Richter, R; Coreno, M; de Simone, M; Prince, KC; Carravetta, V
The journal of physical chemistry. A 111 (2007): 10998–11005.
<https://dx.doi.org/10.1021/jp075384v>

49)-Electronic structure of copper phthalocyanine: An experimental and theoretical study of occupied and unoccupied levels

Evangelista, F; Carravetta, V; Stefani, G; Jansik, B; Alagia, M; Stranges, S; Ruocco, A
subjectABSORPTION FINE-STRUCTUREsubjectGAS-PHASE PHOTOEMISSION-SPECTROSCOPYsubjectMETAL
PHTHALOCYANINESsubjectMOLECULESsubjectcomputational spectroscopy
The Journal of chemical physics 126 (2007): 124709.
<https://dx.doi.org/10.1063/1.2712435>

50)-Vibrational state dependence of beta and D asymmetry parameters: The case of the highest occupied molecular orbital photoelectron spectrum of methyl-oxirane

Contini G.1; Zema N.1; Turchini S.1; Catone D.1; Prosperi T.1; Carravetta V.2; Bolognesi P.3; Avaldi L.3; Feyer V.3,4
subjectpropylene oxidessubjectphotoemission angular distributionssubjectvibrationssubjectexperimentssubjecttheory
The Journal of chemical physics 127 (2007): 124310–124316.
<https://dx.doi.org/10.1063/1.2779324>

51)-An X-ray absorption study of glycine, methionine and proline

Plekan, O; Feyer, V; Richter, R; Coreno, M; de Simone, M; Prince, KC; Carravetta, V
subjectAMINO-ACIDSsubjectGAS-PHASEsubjectELECTRONIC-STRUCTUREsubjectXPSsubjectcomputational spectroscopy
Journal of electron spectroscopy and related phenomena (Print) 155 (2007): 47–53.
<https://dx.doi.org/10.1016/j.elspec.2006.11.004>

52)-Dynamic of Laponite solutions: an interpretation within the coupling model scheme

L. Zulian a; b; *; B. Ruzicka a; b; G. Ruocco a; b; S. Capaccioli b; c
subjectCOLLOIDAL SYSTEMSsubjectLAPONITESsubjectDYNAMICSsubjectCOUPLING MODEL
Journal of non-crystalline solids 353 (2007): 3885–3890.
<http://www.cnr.it/prodotto/i/230571>

info:cnr-pdr/source/autori:L. Zulian a,b,*, B. Ruzicka a,b, G. Ruocco a,b, S. Capaccioli b,c/titolo:Dynamic of Laponite solutions: an interpretation within the coupling model scheme/

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

1)-Open Resonators for Millimeter Wave Spectroscopy

Annino G.; Kolodiazhnyi T.; Martinelli M.subjectOpen resonatorssubjectMillimeter wavelengthssubjectSpectroscopysubjectWhispering gallery resonatorssubjectNonradiative resonators

6-th International Kharkov Symposium on Physics and Engineering of Microwaves, Millimeter and Submillimeter Waves (MSMW'07), Kharkov, Ukraine, 2007

<http://www.cnr.it/prodotto/i/88120>

info:cnr-pdr/source/autori:Annino G. , Kolodiazhnyi T., Martinelli M./congresso_nome:6-th International Kharkov Symposium on Physics and Engineering of Microwaves, Millimeter and Submillimeter Waves (MSMW'07)/congresso_luogo:Kharkov, Ukraine/congresso_data:2007/anno:2007/pagina_da:/pagina_a:/intervallo_pagine:

2)-Development and Application of Open Single-Mode Resonators for High-Frequency EPR

Annino G.; M. Fittipaldi; M. Martinelli; S. van Doorslaer; E. GoovaertssubjectOpen resonatorssubjectSingle-mode resonatorssubjectHigh-frequency EPRsubjectNonradiative cavities

International Conference “Modern Development of Magnetic Resonance”, Kazan, Russian Federation, 2007

<http://www.cnr.it/prodotto/i/88121>

info:cnr-pdr/source/autori:Annino G. , M. Fittipaldi, M. Martinelli, S. van Doorslaer, E. Goovaerts/congresso_nome:International Conference “Modern Development of Magnetic Resonance”/congresso_luogo:Kazan, Russian Federation/congresso_data:2007/anno:2007/pagina_da:/pagina_a:/intervallo_pagine:

3)-TRASFERIMENTO DI INNOVAZIONI TECNOLOGICHE NEL SETTORE OLEARIO: L'ESPERIENZA DEL PROGETTO AGRIBIT

LADDOMADA B. (1); SALVETTI G. (2); LONGOBARDI F.(1); MITA G. (1)

Ricerca e innovazione per la filiera olivicolo-olearia dei paesi del Mediterraneo, Bari, 2007

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4)-Biodegradable and Compostable PLA-based formulations to replace plastic disposable commodities

Signori F; Coltelli M.B.; Bronco S.; Ciardelli F.

(Bio)Degradable Polymers from Renewable Resources, Wien (Austria), 2007

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5)-Molecular modification of gelatine by reaction with isocyanates

Bertoldo M; F. Cognigni; Signori F; S. Bronco; F. Ciardelli
(Bio)Degradable Polymers from Renewable Resources, Wien (Austria), 2007
<http://www.cnr.it/prodotto/i/88187>

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6)-Compostable PP-like fibres from renewable resources

Coltelli M.B.; Signori F.; Bronco S.; Ciardelli F.
Biotechnical Functionalization of Renewable Polymeric Materials, Graz (Austria), 2007
<http://www.cnr.it/prodotto/i/88222>

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7)-Tautomeria Cheto-Enolica in beta-Dichetoni Lineari e Ciclici: Studio DFT in Vacuo e in Soluzione Acquosa

Alagona Giuliano; Ghio Caterina
XXXIII CONGRESO DE QUÍMICOS TEÓRICOS DE EXPRESIÓN LATINA, La Havana (Cuba), 2007
<http://www.cnr.it/prodotto/i/116613>

info:cnr-pdr/source/autori:Alagona Giuliano, Ghio Caterina/congresso_nome:XXXIII CONGRESO DE QUÍMICOS TEÓRICOS DE EXPRESIÓN LATINA/congresso_luogo:La Havana (Cuba)/congresso_data:2007/anno:2007/pagina_da:/pagina_a:/intervallo_pagine:

8)-Reazione di Wittig tra 2,4-dimetil-3-pirrol-1-il-pentanale e Trifenilmetilfosforano in Vacuo e in Tetraidrofurano

Alagona Giuliano; Ghio Caterina
XXXIII CONGRESO DE QUÍMICOS TEÓRICOS DE EXPRESIÓN LATINA, La Havana (Cuba), 2007

<http://www.cnr.it/prodotto/i/116614>

info:cnr-pdr/source/autori:Alagona Giuliano, Ghio Caterina/congresso_nome:XXXIII CONGRESO DE QUÍMICOS TEÓRICOS DE EXPRESIÓN LATINA/congresso_luogo:La Havana (Cuba)/congresso_data:2007/anno:2007/pagina_da:/pagina_a:/intervallo_pagine:

9)-Stability Of The Molecular Complex Of Glycine And 18c6 Crown Ether In H₂O-EtOH Mixtures At 298.15 K

T.R. Usacheva (1); E. Matteoli (2); L. Lepori (2); V.A. Sharnin (1)

XXIII Tscugaev International Conference of Coordination Chemistry, Odessa (Ukraine), 2007

<http://www.cnr.it/prodotto/i/116671>

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10)-The Influence Of Mixed Solvents Nature On The Thermodynamics Of Formation Of Ionic And Molecular Complexes Of Crown Ethers

T. R. Usacheva (1); V. A. Sharnin (1); E. Matteoli (2)

Advanced on Chemical Engineering and New Materials Science. Symposium on Chemical Engineering and New Material Science., Ivanovo (Russia), 2007

<http://www.cnr.it/prodotto/i/116672>

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11)-A thermodynamic study of perfluorocarbon + alkane or ether mixtures. Excess and solvation functions

L. Lepori (1); A. Spanedda (1); C. Duce (2); M.R. Tiné (2); E. Matteoli (1)

XVI Internat. Conference on Chemical Thermodynamics, Suzdal (Russia), 2007

<http://www.cnr.it/prodotto/i/116685>

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12)-Calorimetric study of the complex formation between glycine and 18c6 crown ether in water-ethanol mixtures at 298.15k

T.R. Usacheva (1); E. Matteoli (2); L. Lepori (2); V.A. Sharnin (1)

X Internat. Conference on the Problems of Solvation and Complex Formation, Suzdal (Russia), 2007

<http://www.cnr.it/prodotto/i/116686>

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13)-A comparative study of thermodynamic properties of binary mixtures containing perfluoroalkanes.

C. Duce (1); M.R. Tiné (1); L. Lepori (2); E. Matteoli (2); B. Marongiu (3); A. Piras (3)
Medicta 2007, The 8th Mediterranean Conference on Calorimetry and Thermal Analysis, Palermo (Italia), 2007

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14)-Excess thermodynamic properties in liquid binary mixtures

F. Aliotta; F. Saija; R. C. Ponterio
XX Congresso GNSR 2007, catania, 2007

<http://www.cnr.it/prodotto/i/116812>

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15)-Calorimetric authentication of Italian monocultivar EVOOs

M. Angiuli (1); C. Ferrari (1); M.C. Righetti (1); G. Salvetti (1); E. Tombari (1); G. Colella (2); L. Damico (2); G. Mita (2)
20° Congresso della Società Italiana per lo Studio delle Sostanze Grasse, Roma, 2007

<http://www.cnr.it/prodotto/i/116820>

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16)-Light induced oxidation of Italian monocultivar EVOOs: a calorimetric study

M. Angiuli (1); C. Ferrari (1); M.C. Righetti (1); G. Salvetti (1); E. Tombari (1); A. Mattei (2)
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17)-Towards single spin detection: the role of scanning probe microscopy techniques

Massimo Martinelli/subject/Imaging/subject/Single molecules/subject/Magnetic resonances/subject/STM

Modern development of magnetic resonance, Kazan (Federazione Russa), 2007

<http://www.cnr.it/prodotto/i/116876>

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18)-Giocando con la fisica: cinque anni di attività della mostra interattiva LuS, la Ludoteca Scientifica pisana

Nadia Ioli Pierazzini; Marco Maria Massai/subject/ludoteca scientifica

XCIII Congresso Nazionale della Società Italiana di Fisica, Pisa, 2007

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info:cnr-pdr/source/autori:Nadia Ioli Pierazzini, Marco Maria Massai/congresso_nome:XCIII Congresso Nazionale della Società Italiana di Fisica/congresso_luogo:Pisa/congresso_data:2007/anno:2007/pagina_da:/pagina_a:/intervallo_pagine:

19)-RECENT PROGRESS IN THE COMPUTATION OF NON LINEAR OPTICAL PROPERTIES OF CHIRAL SYSTEMS

Rizzo; A.

International Conference of Computational Methods in Sciences and Engineering 2007 (ICCMSE 2007), Corfù, Greece, 2007

<http://www.cnr.it/prodotto/i/117089>

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20)-DFT AND MIXED ELECTRIC MAGNETIC OPTICAL PROPERTIES

Rizzo; A.

A Coastal Voyage of Current Density Functional Theory, CDFT2007, Trosnoe-Trondheim, Norway, 2007

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21)-The effect of polymer morphology on barrier and mechanical properties of polyolefin/MMT nanocomposites

Passagli, Elisa; Bertoldo, Monica; Ceriegi, Silvia; Ciardelli, Francesco

BYPOS 2007, Bratislava Young Polymer Scientists Workshop, Smolenic (Slovakia), 2007

<http://www.cnr.it/prodotto/i/117258>

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22)-Birefringences in Liquids

Rizzo A.

, 2007

<http://www.cnr.it/prodotto/i/137259>

info:cnr-pdr/source/autori:Rizzo A./titolo:Birefringences in Liquids/titolo_volume:/curatori_volume:/editore:/anno:2007

23)-gFCT: A 2D-FCT code for solving bounded continuity equations with gravity

Nocera L.subjectplasmassubjectNumerical algorithmssubjectFlux Corrected Transport
2007

<http://www.cnr.it/prodotto/i/151785>

24)-Calorimetro multimodo MASC-LT a scansione e modulazione di temperatura

FERRARI C.; GASPERINI L.; SALVETTI G.; TOMBARI E.subjectcalorimetria
modulatasubjectsoettroscopia di calore specifico
2007

<http://www.cnr.it/prodotto/i/151786>

25)-Cavità elettromagnetica a 25 GHz operante a temperature criogeniche

Annino G.; L. Gasperini; C.A. Massa

2007

<http://www.cnr.it/prodotto/i/158310>

26)-Roughness of Unsymmetric Plasma Solitons

Nocera L.subjectplasmassubjectsolitonssubjectfractional calculus

2007

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27)-Derivation of a mKdV equation for soliton propagation in a non homogeneous magnetized heavy bounded plasma

Nocera L.subjectplasmassubjectMagnetohydrodynamicssubjectsolutonssubjectmodified Korteweg de Vries equation

2007

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28)-Local organization of water and its effect on the structural heterogeneities in room temperature ionic liquids/H₂O mixtures

Barbara Fazio; Alessandro Triolo; Gaetano Di Marco; Francesco Aliotta
subjectLiquidionicsubjectRamansubjectFTIRsubjectIonic LiquidssubjectRaman scatteringssubjectInfraRed spectroscopy

XX Congresso Nazionale - Gruppo Nazionale Spettroscopia Raman ed effetti non lineari (GNSR), Catania, 2007

<http://www.cnr.it/prodotto/i/170574>

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29)-Multiple Melting Behavior in Poly(butylene terephthalate): Calorimetric and Morphological Analyses

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

, 2007

<http://www.cnr.it/prodotto/i/172243>

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