

Peer-reviewed journal articles

1)-Calibration free laser induced plasma spectroscopy: a new frontier for material analysis, environmental protection and Cultural Heritage conservation.

Bolognesi L.; Corsi M.; Palleschi V.; Tognoni E.; Salvetti A. SUBJECTLIBSSUBJECTmaterial analysisSUBJECTenvironmental protectionSUBJECTcultural heritage

Proceedings of SPIE 4068 (2000): 6–16.

<https://dx.doi.org/10.1117/12.378659>

2)-Earthquake-induced variations in the composition of the water in the geothermal reservoir at Vulcano Island, Italy.

Bolognesi L. SUBJECTVulcano IslandSUBJECTmagmatic fluidsSUBJECTgeothermal systemsSUBJECTfluid geochemistrySUBJECTisotopes

Journal of volcanology and geothermal research 99 (2000): 139–150.

[https://dx.doi.org/10.1016/S0377-0273\(99\)00196-1](https://dx.doi.org/10.1016/S0377-0273(99)00196-1)

3)-Near-field optical microscopy

Labardi, M.; Gucciardi, P.G.; Allegrini, M.

La Rivista del nuovo cimento della Società italiana di fisica (Testo stamp.) 23 (2000): 1–35.

<http://www.cnr.it/prodotto/i/216099>

info:cnr-pdr/source/autori:Labardi, M.; Gucciardi, P.G.; Allegrini, M./titolo:Near-field optical microscopy/

4)-Bose-Einstein condensation in a stiff TOP trap with adjustable geometry

E Hodby; G Hechenblaikner; O M Marago'; J Arlt; S Hopkins; C J Foot

Journal of physics. B. Atomic and molecular physics 33 (2000): 4087–4094.

<https://dx.doi.org/10.1088/0953-4075/33/19/319>

5)-Observation of harmonic generation and nonlinear coupling in the collective dynamics of a Bose-Einstein condensate

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

Physical review letters (Print) 85 (2000): 692–695.

<http://www.cnr.it/prodotto/i/216644>

info:cnr-pdr/source/autori:G. Hechenblaikner, O.M. Marago', E. Hodby, J. Arlt, S. Hopkins, and C. J. Foot/titolo:Observation of harmonic generation and nonlinear coupling in the collective dynamics of a Bose-Einstein condensate/

6)-Observation of the scissors mode and evidence for superfluidity of a trapped Bose-Einstein condensed gas

O. M. Marago'; S. A. Hopkins; J. Arlt; E. Hodby; G. Hechenblaikner; C. J. Foot

Physical review letters (Print) 84 (2000): 2056–2059.

<https://dx.doi.org/10.1103/PhysRevLett.84.2056>

7)-Measurement of elastic cross section for cold cesium collisions

S. A. Hopkins; S. Webster; J. Arlt; P. Bance; S. Cornish; O. Marago'; C. J. Foot

Physical review. A 61 (2000): 032707.

<http://www.cnr.it/prodotto/i/216662>

info:cnr-pdr/source/autori:S. A. Hopkins, S. Webster, J. Arlt, P. Bance, S. Cornish, O. Marago', and C. J. Foot/titolo:Measurement of elastic cross section for cold cesium collisions/

8)-Spatial periodicity of photorefractive orientational gratings in dye-doped polymer-liquid crystal composite

CIPPARRONE G; MAZZULLA A; PAGLIUSI PSUBJECTpolymer dispersed liquid crystals; photorefractive effect; holographic grating

Optics communications (Print) 185 (2000): 171–175.

[https://dx.doi.org/10.1016/S0030-4018\(00\)00981-0](https://dx.doi.org/10.1016/S0030-4018(00)00981-0)

9)-Polarization gratings in photosensitive Langmuir-Blodgett films and chiral liquid crystalline polymers

CIPPARRONE G; MAZZULLA A; KOZLOVSKY MV; PALTO SP; YUDIN SG; BLINOV LMSUBJECTHolography; organic materials; liquid crystals

Molecular crystals and liquid crystals science and technology. Section C, Molecular materials 12 (2000): 359–376.

<http://www.cnr.it/prodotto/i/218926>

info:cnr-pdr/source/autori:CIPPARRONE G; MAZZULLA A; KOZLOVSKY MV; PALTO SP; YUDIN SG; BLINOV LM/titolo:Polarization gratings in photosensitive Langmuir-Blodgett films and chiral liquid crystalline polymers/

10)-Permanent polarization gratings in photosensitive Langmuir-Blodgett films

CIPPARRONE G; MAZZULLA A; PALTO SP; YUDIN SG; BLINOV LMSUBJECTPHOTOINDUCED OPTICAL ANISOTROPY; CHAIN AZOBENZENE POLYESTERS; LIQUID-CRYSTAL ORIENTATION; HOLOGRAPHIC GRATINGS; DIFFRACTION

Applied physics letters 77 (2000): 2106–2108.

<https://dx.doi.org/10.1063/1.1308056>

11)-Optical and dc conductivity study of potassium-doped single-walled carbon nanotube films

B. Ruzicka; L. DegiorgiR. Gaal; L. Thien-Nga; R. Bacsa; J.-P. Salvetat; L. Forro`SUBJECTCRYSTALLINE ROPESSUBJECTSALTS

Physical review. B, Condensed matter and materials physics 61 (2000): R2468–R2471.

<https://dx.doi.org/10.1103/PhysRevB.61.R2468>

12)-Optical evidence for dimensionality crossover: the case of ladder systems and Bechgaard salts.

B. Ruzicka^a; L. Degiorgia; V. Vescolia; U. Ammerahl^b; c; G. Dhalenne^b; A. Revcolevschib
SUBJECT SPIN GAP; SR14-XCAXCU24O41; SUPERCONDUCTIVITY;
SR14CU24O41; TRANSPORT

Physica. C, Superconductivity (Print) 341 (2000): 359–362.

[https://dx.doi.org/10.1016/S0921-4534\(00\)00511-6](https://dx.doi.org/10.1016/S0921-4534(00)00511-6)

13)-Transport and optical conductivity in NaxWO3

B. Ruzicka¹, A. Brglez², B. Malic², L. Degiorgi¹; a; D. Mihailovic²
SUBJECT SUPERCONDUCTIVITY

The European physical journal. B, Condensed matter physics (Print) 16 (2000): 205–208.

<https://dx.doi.org/10.1007/s100510070219>

14)-Low-temperature transport, thermal, and optical properties of single-grain quasicrystals of icosahedral phases in the Y-Mg-Zn and Tb-Mg-Zn alloy systems

M. A. Chernikov; S. Paschen; E. Felder; P. Vorburger; B. Ruzicka; L. Degiorgi; H. R. OttI. R. Fisher; P. C. Canfield
SUBJECT AL-RE-PDSUBJECT QUASI-CRYSTALSSUBJECT WEAK LOCALIZATIONSUBJECT SPIN-GLASSESSUBJECT CONDUCTIVITY

Physical review. B, Condensed matter 62 (2000): 262–272.

<https://dx.doi.org/10.1103/PhysRevB.62.262>

15)-Thermodynamics of a tiling model

Leuzzi L; Parisi G
SUBJECT Quasi-crystalSUBJECT glassy systemsSUBJECT aging dynamicsSUBJECT phase transitions

Journal of physics. A, mathematical and general (Print) 33 (2000): 4215–4225.

<https://dx.doi.org/10.1088/0305-4470/33/23/301>

16)-Optical constants of CNx thin films from reflection electron energy loss spectroscopy

Barreca, F; Mezzasalma, AM; Mondio, G; Neri, F; Trusso, S; Vasi, C

Thin solid films (Print) 377 (2000): 631–634.

[https://dx.doi.org/10.1016/S0040-6090\(00\)01297-9](https://dx.doi.org/10.1016/S0040-6090(00)01297-9)

17)-Measurement of the dielectric constant of amorphous CNx films in the 0-45 eV energy range

Barreca, F; Mezzasalma, AM; Mondio, G; Neri, F; Trusso, S; Vasi, C

Physical review. B, Condensed matter and materials physics 62 (2000): 16893–16899.

<https://dx.doi.org/10.1103/PhysRevB.62.16893>

18)-Low energy vibrational excitations in silver borate glasses

A Bartolotta; G Carini; G D'Angelo; G Salvato; G Tripodo
SUBJECT VITREOUS SILICA; FREQUENCY

AIP conference proceedings 513 (2000): 27–30.

<http://www.cnr.it/prodotto/i/248812>

info:cnr-pdr/source/autori:A Bartolotta, G Carini, G D'Angelo, G Salvato, G Tripodo/titolo:Low energy vibrational excitations in silver borate glasses/

19)-Anharmonicity and Fragility in semi-interpenetrating polymer networks

G. Carini; G. D'Angelo; G. Tripodo; A. Bartolotta; G. Di Marco; V. P. PrivalkoSUBJECT64.70.P- Glass transitions of specific systems 62.40.+i AnelasticitySUBJECTinternal frictionSUBJECTstress relaxationSUBJECTand mechanical resonances 61.41.+e PolymersSUBJECTelastomersSUBJECTand plastics 62.20.-x Mechanical properties of solids

Journal of physics. Condensed matter (Print) 12 (2000).

<https://dx.doi.org/10.1088/0953-8984/12/15/305>

20)-Solid state electrochromic device: behaviour of different salts on its performance

G. Di Marco; M. Lanza; A. Pennisi; F. SimoneSUBJECTPolymer electrolyte; Smart window; Electrochromic device

Solid state ionics (Print) 127 (2000): 23–9.

[https://dx.doi.org/10.1016/S0167-2738\(99\)00265-9](https://dx.doi.org/10.1016/S0167-2738(99)00265-9)

21)-Optical solid-state oxygen sensors using metalloporphyrin complexes immobilized in suitable polymeric matrices

G. Di Marco; M. LanzaSUBJECTLuminescent oxygen sensor; Phosphorescence quenching; Polymeric matrix; Optodes

Sensors and actuators. B, Chemical (Print) 63 (2000): 42–48.

[https://dx.doi.org/10.1016/S0925-4005\(00\)00299-9](https://dx.doi.org/10.1016/S0925-4005(00)00299-9)

22)-Water vapor overtones pressure line broadening and shifting measurements

Lucchesini A.; Gozzini S.; Gabbanini C.SUBJECTLine and band widthsSUBJECTshapes and shiftsSUBJECTInfrared spectraSUBJECTInfrared spectrometersSUBJECTWater vapor.

The European physical journal. D, Atomic, molecular and optical physics (Print) 8 (2000): 223–226.

<https://dx.doi.org/10.1007/s10053-000-8807-z>

23)-Density-functional study of Pt13 and Pt55 cuboctahedral clusters

APRA' E and FORTUNELLI A.

Journal of molecular structure. Theochem (Print) 501-502 (2000): 251–259.

[https://dx.doi.org/10.1016/S0166-1280\(99\)00436-4](https://dx.doi.org/10.1016/S0166-1280(99)00436-4)

24)-Local properties of Pt/Fe nanoclusters from EHT calculations

FORTUNELLI A. and VELASCO A. M

Journal of molecular structure. Theochem (Print) 528 (2000): 1–12.

[https://dx.doi.org/10.1016/S0166-1280\(99\)00495-9](https://dx.doi.org/10.1016/S0166-1280(99)00495-9)

25)-Ab initio study of the intra- and inter-molecular bonding in AuCl(CO)

FORTUNELLI A. and GERMANO G

The journal of physical chemistry. A 104 (2000): 10834–10841.

<https://dx.doi.org/10.1021/jp000976y>

26)-Un batterio per amico

A. Agostiano; L. Giotta; M. Trotta

Sapere (Bari) 66 (2000): 50–57.

<http://www.cnr.it/prodotto/i/267876>

info:cnr-pdr/source/autori:A. Agostiano, L. Giotta, M. Trotta/titolo:Un batterio per amico/

27)-Fotosintesi artificiale e naturale nella produzione di energia

A. Agostiano; M.L. Curri; M. Della Monica; M. Trotta

Ricerca & Futuro (Testo stamp.) 17 (2000): 56–58.

<http://www.cnr.it/prodotto/i/267888>

info:cnr-pdr/source/autori:A. Agostiano, M.L. Curri, M. Della Monica and M. Trotta/titolo:Fotosintesi artificiale e naturale nella produzione di energia/

28)-The effect of inorganic and organic macromolecular structures on the performance of metallocene polymerization catalysts

Ciardelli, F; Altomare, A; Bronco, S; Oulderrahmania, L; Masi, F

Macromolecular symposia 156 (2000): 147–157.

[https://dx.doi.org/10.1002/1521-3900\(200007\)156:1<147::AID-MASY147>3.0.CO;2-R](https://dx.doi.org/10.1002/1521-3900(200007)156:1<147::AID-MASY147>3.0.CO;2-R)

29)-Effect of the zeolite HY-support on the monoalkene polymerization by group IV metallocenes

Michelotti, M; Arribas, G; Bronco, S; Altomare, ASUBJECTETHYLENE POLYMERIZATION; ZIEGLER-CATALYSTS; PROPENE; ZIRCONOCENE; OLEFINS; COPOLYMERIZATION; POLYMERS; SYSTEMS; DICHLORIDE

Journal of molecular catalysis. A, Chemical (Print) 152 (2000): 167–177.

[https://dx.doi.org/10.1016/S1381-1169\(99\)00292-7](https://dx.doi.org/10.1016/S1381-1169(99)00292-7)

30)-Scaling properties in the structure of new complex materials (porphyrins and dendritic polymer systems)

F. Mallamace; P. Gambadauro; P. Lesieur; D. Lombardo; N. Micali; A. Romeo; L. Monsù Scolaro

Journal of applied crystallography 33 (2000): 632–636.

<http://www.cnr.it/prodotto/i/270700>

info:cnr-pdr/source/autori:F. Mallamace, P. Gambadauro, P. Lesieur, D. Lombardo, N. Micali, A. Romeo and L. Monsù Scolaro/titolo:Scaling properties in the structure of new complex materials (porphyrins and dendritic polymer systems)/

31)-Temperature-induced micelle to vesicle transition: kinetic effects in the DMPC/NaC system

Lesieur, P.; Kiselev, M.A.; Barsukov, L.I.; Lombardo, D

Journal of applied crystallography 33 (2000): 623–627.

<http://www.cnr.it/prodotto/i/270910>

info:cnr-pdr/source/autori:Lesieur, P. ; Kiselev, M.A. ; Barsukov, L.I.; Lombardo, D/titolo:Temperature-induced micelle to vesicle transition: kinetic effects in the DMPC/NaC system/

32)-Evidence of percolative phenomena in a lecithin-based gel

Aliotta; F; Vasi; C; Lechner; RE; Ruffle; BSUBJECTpercolationSUBJECTquasi-elastic scatteringSUBJECTinelastic scatteringSUBJECTsurfactantsSUBJECTLIVING POLYMERSSUBJECTMICELLES

Physica. B, Condensed matter (Print) 276 (2000): 347–348.

[https://dx.doi.org/10.1016/S0921-4526\(99\)01552-5](https://dx.doi.org/10.1016/S0921-4526(99)01552-5)

33)-Interferometric determination of the refractive index of liquid sulphur dioxide

Musso; M; Aschauer; R; Asenbaum; A; Vasi; C; Wilhelm; ESUBJECTrefractive indexSUBJECTliquidsSUBJECTsulphur

dioxideSUBJECTTEMPERATURESUBJECTDENSITYSUBJECTLASERSUBJECTDEPENDENCESUBJECTWAVELENGTHSUBJECTWATER

Measurement science & technology (Print) 11 (2000): 1714–1720.

<https://dx.doi.org/10.1088/0957-0233/11/12/310>

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

1)-Radical Scavenger

Chiaradonna G.;

PCT, WO 01/28973; . AU8028700

<http://www.cnr.it/prodotto/i/144970>

2)-Method for the acquisition of images by confocal microscopy

Benedetti P.A.;

6,016,367

<http://www.cnr.it/prodotto/i/144975>

3)-Cleaning Composition

Chiaradonna G.;

PCT, WO 01/29165; . AU1212901

<http://www.cnr.it/prodotto/i/144992>

4)-Fast deuterium analysis of water samples by LIBS.

Bolognesi L.; Corsi M.; Cristoforetti G.; Palleschi V.; Salvetti A.; Simili B.; Tognoni E.

LIBS 2000, pp. 97–97, Tirrenia, Pisa, Italy, 8-12 ottobre 2000

<http://www.cnr.it/prodotto/i/187482>

info:cnr-pdr/source/autori:Bolognesi L.; Corsi M.; Cristoforetti G.; Palleschi V.; Salvetti A.;
Simili B.; Tognoni E./congresso_nome:LIBS 2000/congresso_luogo:Tirrenia, Pisa,
Italy/congresso_data:8-12 ottobre
2000/anno:2000/pagina_da:97/pagina_a:97/intervallo_pagine:97–97

5)-A tentative determination of deuterium content in water samples by Laser Induced Breakdown Spectroscopy (LIBS), using different mixtures of H₂O and D₂O.

Bolognesi L.; Corsi M.; Cristoforetti G.; Palleschi V.; Salvetti A.; Simili B.; Tognoni E. SUBJECT LIBS SUBJECT deuterium SUBJECT water

pp. 1–6, 2000

<http://www.cnr.it/prodotto/i/187499>

6)-Scissors mode and superfluidity of a trapped Bose-Einstein condensed gas

Marago', OM; Hopkins, SA; Arlt, J; Hodby, E; Hechenblaikner, G; Foot, CJSUBJECT COLLECTIVE EXCITATIONS; DEFORMED-NUCLEI; MAGNETIC TRAP; INTERFERENCE; ATOMS

27th Course of the International-School-of-Quantum-Electronics on Bose-Einstein Condensates and Atom Lasers, pp. 285–289, ERICE, ITALY, OCT 19-24, 1999

[urn:isbn:0-306-46471-3](http://www.isbn:0-306-46471-3)

info:cnr-pdr/source/autori:Marago', OM; Hopkins, SA; Arlt, J; Hodby, E; Hechenblaikner, G; Foot, CJ/congresso_nome:27th Course of the International-School-of-Quantum-Electronics on Bose-Einstein Condensates and Atom Lasers/congresso_luogo:ERICE, ITALY/congresso_data:OCT 19-24, 1999/anno:2000/pagina_da:285/pagina_a:289/intervallo_pagine:285-289

7)-Photorefractive effect in dye doped PDLC: Two Beam Coupling experiments and photoinduced current measurements

MAZZULLA A; SIMONI F; CIPPARRONE G; PAGLIUSI P

I SILC Mini School on "Introduction to theory and modelling of thermotropic liquid crystals", Portoroz (Slovenia), aprile 2000

<http://www.cnr.it/prodotto/i/221624>

info:cnr-pdr/source/autori:MAZZULLA A, SIMONI F, CIPPARRONE G, PAGLIUSI P/congresso_nome:I SILC Mini School on "Introduction to theory and modelling of thermotropic liquid crystals"/congresso_luogo:Portoroz (Slovenia)/congresso_data:aprile 2000/anno:2000/pagina_da:/pagina_a:/intervallo_pagine:

8)-Investigation of photorefractive effect in dye doped PDLC: two beam coupling experiments and photoinduced current measurements

MAZZULLA A; SIMONI F; CIPPARRONE G; PAGLIUSI P

European Network LC Photonet, Amalfi (NA), ottobre 2000

<http://www.cnr.it/prodotto/i/221630>

info:cnr-pdr/source/autori:MAZZULLA A, SIMONI F, CIPPARRONE G, PAGLIUSI P/congresso_nome:European Network LC Photonet/congresso_luogo:Amalfi (NA)/congresso_data:ottobre 2000/anno:2000/pagina_da:/pagina_a:/intervallo_pagine:

9)-Correlation of structural and electrical transport properties in hydrogenated silicon films

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

6th Scientific Conference on nuclear and Condensed Matter Physics, Palermo, OCT 14-15, 1999

<urn:isbn:1-56396-929-7>

info:cnr-pdr/source/autori:Barreca, F; Fazio, E; Neri, F; Trusso, S; Vasi, C;/congresso_nome:6th Scientific Conference on nuclear and Condensed Matter Physics/congresso_luogo:Palermo/congresso_data:OCT 14-15, 1999/anno:2000/pagina_da:/pagina_a:/intervallo_pagine:

10)-Physical Characterization of endodontic instrument in NiTi Alloy

L. Torrisi; G. Di Marco

International Symposium on Shape Memory Materials (SMM'99), Kanazawa, Japan, 19-21 May 1999

<http://www.cnr.it/prodotto/i/248930>

info:cnr-pdr/source/autori:L. Torrisi, G. Di Marco/congresso_nome:International Symposium on Shape Memory Materials (SMM'99)/congresso_luogo:Kanazawa, Japan/congresso_data:19-21 May 1999/anno:2000/pagina_da:/pagina_a:/intervallo_pagine:

11)-Pulsed Laser Deposition (PLD) of Hydroxyapatite by KrF Excimer

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

INFMeeting, Genova, Genova, 12-16 Giugno, 2000

<http://www.cnr.it/prodotto/i/250703>

info:cnr-pdr/source/autori:S.Trusso, L. Torrisi, P. Parisi, G. Di Marco, C. Gentile/congresso_nome:INFMeeting, Genova/congresso_luogo:Genova/congresso_data:12-16 Giugno, 2000/anno:2000/pagina_da:/pagina_a:/intervallo_pagine:

12)-Mechanical properties characterization of Sicilian lithoid materials by computer-aided speckle interferometry

Ponterio; R; Faraone; A; Lipari; E; Maisano; G; Villari; V

NUCLEAR AND CONDENSED MATTER PHYSICS, pp. 393–396, 2000

<urn:isbn:1-56396-929-7>

info:cnr-pdr/source/autori:Ponterio, R and Faraone, A and Lipari, E and Maisano, G and Villari, V/titolo:Mechanical properties characterization of Sicilian lithoid materials by computer-aided speckle interferometry/titolo_volume:NUCLEAR AND CONDENSED MATTER PHYSICS/curatori_volume:/editore:/anno:2000

13)-Propagation through a dispersion of model particles with non-random distribution of their orientations

Iatì M.A.; Denti P.; Borghese F.; Saija R; Aiello S.SUBJECTLight scattering

9th GIFCO Conference on what are the Prospects for Cosmic Physics in Italy, pp. 153–156, Lecce, MAY 24-26, 2000

<http://www.cnr.it/prodotto/i/269669>

info:cnr-pdr/source/autori:Iatì M.A., Denti P., Borghese F., Saija R, Aiello S./congresso_nome:9th GIFCO Conference on what are the Prospects for Cosmic Physics in Italy/congresso_luogo:Lecce/congresso_data:MAY 24-26, 2000/anno:2000/pagina_da:153/pagina_a:156/intervallo_pagine:153–156