

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 Islandssubjectmagmatic 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^csubjectSPIN 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. Mihailovic²subjectSUPERCONDUCTIVITY

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. CanfieldsubjectAL-RE-PDsubjectQUASI-CRYSTALSsubjectWEAK LOCALIZATIONsubjectSPIN-GLASSESsubjectCONDUCTIVITY

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^GsubjectQuasi-crystalsubjectglassy systemssubjectageing dynamicssubjectphase 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 CN_x 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 CN_x 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 TripodosubjectVITREOUS 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. Privalko
subject64.70.P- Glass transitions of specific systems 62.40.+i Anelasticitysubjectinternal frictionssubjectstress relaxationssubjectand 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. Simone
subjectPolymer 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. Lanza
subjectLuminescent 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 widthsubjectshapes and shiftsubjectInfrared 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, A
subject:ETHYLENE 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; Ruffe; 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

dioxidesubjectTEMPERATUREsubjectDENSITYsubjectLASERsubjectDEPENDENCEsubject WAVELENGTHsubjectWATER

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.
subjectLIBSsubjectdeuteriumsubjectwater

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, CJ
subjectCOLLECTIVE 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.cnr.it/prodotto/i/187499)

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