

Federica Ciuchi

List of Publications by Year in descending order

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65
papers

1,376
citations

304743

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361022

35
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65
all docs

65
docs citations

65
times ranked

1713
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Self-Recognition and Self-Assembly of Folic Acid Salts: Columnar Liquid Crystalline Polymorphism and the Column Growth Process. <i>Journal of the American Chemical Society</i> , 1994, 116, 7064-7071. | 13.7 | 139 |
| 2 | Higher methane storage at low pressure and room temperature in new easily scalable large-scale production activated carbon for static and vehicular applications. <i>Fuel</i> , 2013, 104, 813-821. | 6.4 | 86 |
| 3 | Electric field induced order reconstruction in a nematic cell. <i>European Physical Journal E</i> , 2004, 13, 61-71. | 1.6 | 71 |
| 4 | Ellipsometry investigation of the effects of annealing temperature on the optical properties of indium tin oxide thin films studied by Drude-Lorentz model. <i>Applied Surface Science</i> , 2009, 255, 7203-7211. | 6.1 | 70 |
| 5 | Fractional Diffusion Equation and the Electrical Impedance: Experimental Evidence in Liquid-Crystalline Cells. <i>Journal of Physical Chemistry C</i> , 2012, 116, 8773-8777. | 3.1 | 57 |
| 6 | Nanostructured Poly(styrene- <i>b</i> -butadiene- <i>b</i> -styrene) (SBS) Membranes for the Separation of Nitrogen from Natural Gas. <i>Advanced Functional Materials</i> , 2012, 22, 1759-1767. | 14.9 | 56 |
| 7 | Methane storage in zeolite-like carbon materials. <i>Microporous and Mesoporous Materials</i> , 2014, 188, 16-22. | 4.4 | 55 |
| 8 | Time Resolved Experimental Analysis of the Electric Field Induced Biaxial Order Reconstruction in Nematics. <i>Physical Review Letters</i> , 2004, 93, 137801. | 7.8 | 46 |
| 9 | Amine-functionalized SBA-15 in poly(styrene- <i>b</i> -butadiene- <i>b</i> -styrene) (SBS) yields permeable and selective nanostructured membranes for gas separation. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11853. | 10.3 | 45 |
| 10 | Graphene oxide on magnetron sputtered silver thin films for SERS and metamaterial applications. <i>Applied Surface Science</i> , 2018, 427, 927-933. | 6.1 | 45 |
| 11 | Nematic Liquid Crystal Optical Dispersion in the Visible-Near Infrared Range. <i>Molecular Crystals and Liquid Crystals</i> , 2006, 454, 263/[665]-271/[673]. | 0.9 | 38 |
| 12 | Helix-Specific Interactions Induce Condensation of Guanosine Four-Stranded Helices in Concentrated Salt Solutions. <i>Biophysical Journal</i> , 1998, 74, 430-435. | 0.5 | 34 |
| 13 | All-optical control of localized plasmonic resonance realized by photoalignment of liquid crystals. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7483. | 5.5 | 31 |
| 14 | Dynamical homeotropic and planar alignments of chromonic liquid crystals. <i>Soft Matter</i> , 2012, 8, 8478. | 2.7 | 30 |
| 15 | A rheological modelling and microscopic analysis of bigels. <i>Rheologica Acta</i> , 2017, 56, 753-763. | 2.4 | 30 |
| 16 | Physical investigation of electrophoretically deposited graphene oxide and reduced graphene oxide thin films. <i>Journal of Applied Physics</i> , 2016, 120, 195307. | 2.5 | 29 |
| 17 | Non-Debye relaxation in the dielectric response of nematic liquid crystals: Surface and memory effects in the adsorption-desorption process of ionic impurities. <i>Physical Review E</i> , 2012, 86, 051705. | 2.1 | 27 |
| 18 | Permanent polarization gratings in elastomer azo-dye systems: comparison of layered and mixed samples. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2002, 19, 2531. | 2.1 | 26 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Langmuir-Blodgett Film of Hydrophobin Protein from <i>Pleurotus ostreatus</i> at the Air-Water Interface. <i>Langmuir</i> , 2008, 24, 12953-12957. | 3.5 | 26 |
| 20 | Complex Structures of Surface Relief Induced by Holographic Recording in Azo-Dye-Doped Elastomer Thin Films. <i>Macromolecules</i> , 2003, 36, 5689-5693. | 4.8 | 24 |
| 21 | Unusual lyotropic polymorphism of deoxyguanosine-5'-monophosphate: X-ray diffraction analysis of the correlation between self-assembling and phase behavior. <i>Physical Review E</i> , 1994, 50, 395-402. | 2.1 | 23 |
| 22 | Ordering phenomena in nanostructured poly(styrene- <i>b</i> -butadiene- <i>b</i> -styrene) (SBS) membranes for selective ethanol transport. <i>Journal of Membrane Science</i> , 2011, 385-386, 162-170. | 8.2 | 23 |
| 23 | Thermally induced evolution of sol-gel grown WO ₃ films on ITO/glass substrates. <i>Applied Surface Science</i> , 2014, 297, 195-204. | 6.1 | 21 |
| 24 | Resveratrol induces chain interdigitation in DPPC cell membrane model systems. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 148, 615-621. | 5.0 | 21 |
| 25 | Optical and electrical characterization of a gold nanoparticle dispersion in a chiral liquid crystal matrix. <i>Journal of Materials Science</i> , 2014, 49, 1805-1811. | 3.7 | 19 |
| 26 | Lasing in an intermediate twisted phase between cholesteric and smectic A phase. <i>Applied Physics Letters</i> , 2006, 88, 101105. | 3.3 | 18 |
| 27 | Inhomogeneous bulk nematic order reconstruction. <i>Physical Review E</i> , 2008, 77, 020702. | 2.1 | 18 |
| 28 | Ion Motion in Electrolytic Cells: Anomalous Diffusion Evidences. <i>Journal of Physical Chemistry B</i> , 2017, 121, 2882-2886. | 2.6 | 17 |
| 29 | Small-angle X-ray scattering and neutron reflectivity studies of Langmuir-Blodgett films of copper tetra- <i>tert</i> -butyl-azaporphyrines. <i>Journal of Applied Crystallography</i> , 2003, 36, 758-762. | 4.5 | 16 |
| 30 | The role of edible oils in low molecular weight organogels rheology and structure. <i>Food Research International</i> , 2018, 111, 399-407. | 6.2 | 16 |
| 31 | Paper like cholesteric interferential mirror. <i>Optics Express</i> , 2013, 21, 20821. | 3.4 | 15 |
| 32 | Resistance to the transport of H ₂ through the external surface of as-made and modified silicalite-1 (MFI). <i>Microporous and Mesoporous Materials</i> , 2016, 220, 290-297. | 4.4 | 15 |
| 33 | ac and dc electro-optical response of planar aligned liquid crystal cells. <i>Applied Physics Letters</i> , 2007, 91, 232902. | 3.3 | 13 |
| 34 | Unconventionally shaped chromonic liquid crystals formed by novel silver complexes. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8780-8788. | 5.5 | 13 |
| 35 | Control of transient biaxial order in calamitic nematics. <i>Applied Physics Letters</i> , 2007, 91, 244104. | 3.3 | 12 |
| 36 | The self-assembly and liquid crystal formation of d(GpGpApGpG). <i>Biopolymers</i> , 1997, 42, 561-574. | 2.4 | 11 |

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|----|---|------|-----------|
| 37 | Surface order reconstruction in nematics. <i>Applied Physics Letters</i> , 2010, 97, 104104. | 3.3 | 11 |
| 38 | Self-assembly of dideoxyguanosine (3',3') and (5',5')-monophosphates. <i>Chirality</i> , 1998, 10, 734-741. | 2.6 | 10 |
| 39 | Effects of Gold Nanoparticle Dispersion in a Chiral Liquid Crystal Matrix. <i>Molecular Crystals and Liquid Crystals</i> , 2013, 572, 59-65. | 0.9 | 10 |
| 40 | Metallomesogens as Biaxial Dopants in a Calamitic Nematic Liquid Crystal. <i>Molecular Crystals and Liquid Crystals</i> , 2008, 481, 73-79. | 0.9 | 9 |
| 41 | Surface treatment and bulk density of ions in nematic liquid crystals. <i>Journal of Applied Physics</i> , 2009, 106, 044508. | 2.5 | 9 |
| 42 | Fractal aggregates evolution of methyl red in liquid crystal. <i>European Physical Journal E</i> , 2009, 29, 139-147. | 1.6 | 8 |
| 43 | Alignment of Chromonic Liquid Crystals: A Difficult Task. <i>Molecular Crystals and Liquid Crystals</i> , 2013, 576, 2-7. | 0.9 | 8 |
| 44 | Dielectric Characterisation of an Orthoconic Antiferroelectric Liquid Crystal Mixture. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 558, 120-126. | 0.9 | 7 |
| 45 | UV sensors based on liquid crystals mixtures. , 2006, , . | | 6 |
| 46 | Dielectric relaxation in non-polar nematic liquid crystal devices. <i>European Physical Journal Plus</i> , 2015, 130, 1. | 2.6 | 6 |
| 47 | Induced Chiral Chromonics Confined in Micrometric Droplets. <i>Advanced Functional Materials</i> , 2021, 31, 2010394. | 14.9 | 6 |
| 48 | Structural and electrical characterisation of betaine-type, organic, molecular, thin evaporated films and LB multilayers. <i>Supramolecular Science</i> , 1997, 4, 399-406. | 0.7 | 5 |
| 49 | Anomalous Diffusion Effects on the Electrical Impedance Response of Liquid-Crystalline Systems. <i>Molecular Crystals and Liquid Crystals</i> , 2013, 576, 23-31. | 0.9 | 5 |
| 50 | Probing Molecular Recognition at the Solid-Gas Interface by Sum-Frequency Vibrational Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3022-3026. | 4.6 | 5 |
| 51 | Intercalation or external binding: How to torque chromonic Sunset Yellow. <i>Journal of Molecular Liquids</i> , 2022, 359, 119265. | 4.9 | 5 |
| 52 | Molecular order in self-assembled multilayers of stearic acid. <i>Thin Solid Films</i> , 1996, 284-285, 216-219. | 1.8 | 4 |
| 53 | Lasing Stability Enhancement in Dye Doped Cholesteric Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2010, 516, 190-196. | 0.9 | 4 |
| 54 | Surface Nematic Order Induced by Silane Derivatives Studied by Second Harmonic Generation. <i>Molecular Crystals and Liquid Crystals</i> , 2002, 372, 291-303. | 0.9 | 3 |

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|----|--|-----|-----------|
| 55 | Structural Transformations of PZT 53/47 Sol-Gel Films on Different Substrates Driven by Thermal Treatments. <i>Ferroelectrics</i> , 2010, 396, 49-59. | 0.6 | 3 |
| 56 | The role of surface energy in guanosine nucleotide alignment: An intriguing scenario. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 119, 99-105. | 5.0 | 3 |
| 57 | Probing Cavitation in Organosilane Hybrid Bilayers via Sum-Frequency Vibrational Spectroscopy. <i>Langmuir</i> , 2014, 30, 12843-12849. | 3.5 | 3 |
| 58 | Spherical Confinement of Chromonics: Effects of a Chiral Aminoacid. <i>Nanomaterials</i> , 2022, 12, 619. | 4.1 | 3 |
| 59 | PROBING ALIGNMENT OF LIQUID CRYSTALS ON SILANE DERIVATIVES BY SECOND HARMONIC GENERATION. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2001, 10, 133-142. | 1.8 | 2 |
| 60 | UNPOLAR AND POLAR HOLOGRAPHIC GRATING RECORDING BY CIRCULARLY POLARIZED LIGHT ON PHOTOANISOTROPIC AZOBENZENE LANGMUIR-BLODGETT FILMS. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2003, 12, 495-511. | 1.8 | 1 |
| 61 | Electrically controlled defects at a liquid crystal-polyimide interface. <i>Liquid Crystals</i> , 2008, 35, 99-102. | 2.2 | 1 |
| 62 | Temperature Dependence of Order Reconstruction in a Splay Cell. <i>Molecular Crystals and Liquid Crystals</i> , 2011, 549, 37-42. | 0.9 | 1 |
| 63 | AFM Studies on Curcumin Based Zn(II) Complex Molecules for Applications as Anticancer Agents. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 558, 194-203. | 0.9 | 1 |
| 64 | Nanoscale Structure of Langmuir-Blodgett Film of Bent-Core Molecules. <i>Nanomaterials</i> , 2022, 12, 2285. | 4.1 | 1 |
| 65 | Anomalous Scaling, Intermittency and Turbulence in Nematic Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2015, 614, 67-85. | 0.9 | 0 |