

Francesco Vita

List of Publications by Year in descending order

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67
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citations

361413

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docs citations

68
times ranked

1064
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoscale Structure of Langmuir-Blodgett Film of Bent-Core Molecules. <i>Nanomaterials</i> , 2022, 12, 2285.	4.1	1
2	Cubic and Hexagonal Mesophases for Protein Encapsulation: Structural Effects of Insulin Confinement. <i>Langmuir</i> , 2021, 37, 10166-10176.	3.5	7
3	Biaxial ordering in the supercooled nematic phase of bent-core mesogens: effects of molecular symmetry and outer wing lateral groups. <i>Liquid Crystals</i> , 2020, 47, 1986-1998.	2.2	8
4	Liquid crystal thermosets. A new class of high-performance materials. <i>Liquid Crystals</i> , 2020, 47, 2016-2026.	2.2	6
5	Synchrotron Characterization of Hexagonal and Cubic Lipidic Phases Loaded with Azolate/Phosphane Gold(I) Compounds: A New Approach to the Uploading of Gold(I)-Based Drugs. <i>Nanomaterials</i> , 2020, 10, 1851.	4.1	7
6	Nanostructure of Unconventional Liquid Crystals Investigated by Synchrotron Radiation. <i>Nanomaterials</i> , 2020, 10, 1679.	4.1	4
7	Comparative ² H NMR and X-Ray Diffraction Investigation of a Bent-Core Liquid Crystal Showing a Nematic Phase. <i>Crystals</i> , 2020, 10, 284.	2.2	6
8	Strong graphene oxide nanocomposites from aqueous hybrid liquid crystals. <i>Nature Communications</i> , 2020, 11, 830.	12.8	30
9	Effects of a cationic surfactant incorporation in phytantriol bulk cubic phases and dispersions loaded with the anticancer drug 5-fluorouracil. <i>Journal of Molecular Liquids</i> , 2019, 286, 110954.	4.9	15
10	Physics of Matter: From the Nanoscale Structure to the Macroscopic Properties of Materials. , 2019, , 207-221.		0
11	Polar order in bent-core nematics: An overview. <i>Journal of Molecular Liquids</i> , 2018, 267, 564-573.	4.9	21
12	Lyotropic Liquid-Crystalline Nanosystems as Drug Delivery Agents for 5-Fluorouracil: Structure and Cytotoxicity. <i>Langmuir</i> , 2017, 33, 12369-12378.	3.5	56
13	Short bent-core molecules: X-ray, polarization, dielectricity, texture and electro-optics investigations. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 22946-22956.	2.8	9
14	Micrometer-Scale Ordering of Silicon-Containing Block Copolymer Thin Films via High-Temperature Thermal Treatments. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9897-9908.	8.0	19
15	Search for microscopic and macroscopic biaxiality in the cybotactic nematic phase of new oxadiazole bent-core mesogens. <i>Physical Review E</i> , 2016, 93, 062701.	2.1	32
16	Search for nematic biaxiality in bent-core mesogens: an X-ray diffraction perspective. <i>Liquid Crystals</i> , 2016, 43, 2254-2276.	2.2	20
17	Molecular ordering in the high-temperature nematic phase of an all-aromatic liquid crystal. <i>Soft Matter</i> , 2016, 12, 2309-2314.	2.7	10
18	Optical measurement of flow rate in a microfluidic channel. <i>Microfluidics and Nanofluidics</i> , 2016, 20, 1.	2.2	18

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19	Insights into Biaxial Ordering of Bent-Core Nematics: X-Ray Diffraction Evidence. <i>Molecular Crystals and Liquid Crystals</i> , 2015, 611, 171-179.	0.9	8
20	Optical nonlinearity in the nematic phase of bent-core mesogens. <i>Optics Letters</i> , 2015, 40, 2953.	3.3	5
21	The effects of lateral halogen substituents on the low-temperature cybotactic nematic phase in oxadiazole based bent-core liquid crystals. <i>Liquid Crystals</i> , 2015, 42, 1754-1764.	2.2	21
22	Thermally induced self-assembly of cylindrical nanodomains in low molecular weight PS- <i>b</i> -PMMA thin films. <i>Nanotechnology</i> , 2014, 25, 045301.	2.6	31
23	Evidence of Cybotactic Order in the Nematic Phase of a Main-Chain Liquid Crystal Polymer with Bent-Core Repeat Unit. <i>ACS Macro Letters</i> , 2014, 3, 91-95.	4.8	29
24	The cybotactic nematic phase of bent-core mesogens: state of the art and future developments. <i>Soft Matter</i> , 2014, 10, 7685-7691.	2.7	64
25	Evidence of Biaxial Order in the Cybotactic Nematic Phase of Bent-Core Mesogens. <i>Chemistry of Materials</i> , 2014, 26, 4671-4674.	6.7	37
26	Fine Tuning of Lithographic Masks through Thin Films of PS- <i>b</i> -PMMA with Different Molar Mass by Rapid Thermal Processing. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7180-7188.	8.0	64
27	The biaxial nematic phase of oxadiazole biphenol mesogens. <i>Liquid Crystals</i> , 2013, 40, 1655-1677.	2.2	36
28	Laser light polarization plastic visualizer: light scattering distribution and anisotropy. <i>RSC Advances</i> , 2013, 3, 7677.	3.6	5
29	Electric field effect on the phase diagram of a bent-core liquid crystal. <i>Soft Matter</i> , 2013, 9, 6475.	2.7	29
30	Extraordinary Field Sensitivity of Bent-Core Cybotactic Nematics. <i>Molecular Crystals and Liquid Crystals</i> , 2013, 573, 46-53.	0.9	9
31	Microfluidic transport of photopolymerizable species for laser source integration in lab-on-a-chip photonic devices. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2012, 10, 575-580.	2.0	3
32	Low nematic onset temperatures and room temperature cybotactic behavior in 1,3,4-oxadiazole-based bent-core mesogens possessing lateral methyl groups. <i>Journal of Materials Chemistry</i> , 2012, 22, 22558.	6.7	49
33	Laser emission based on first order reflection by novel composite polymeric gratings. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2012, 10, 140-145.	2.0	14
34	Cybotaxis dominates the nematic phase of bent-core mesogens: a small-angle diffuse X-ray diffraction study. <i>Soft Matter</i> , 2011, 7, 895-901.	2.7	100
35	Extraordinary Magnetic Field Effect in Bent-Core Liquid Crystals. <i>Physical Review Letters</i> , 2011, 107, 207801.	7.8	62
36	RECENT DEVELOPMENTS IN NEMATOGENIC BENT-CORE MESOGENS: AN X-RAY DIFFRACTION PERSPECTIVE. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2011, 20, 485-499.	1.8	4

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37	Optical Ranging in Endoscopy: Towards Quantitative Imaging. Lecture Notes in Electrical Engineering, 2010, , 74-92.	0.4	0
38	All-optical switching of diffraction gratings infiltrated with dye-doped liquid crystals. Applied Physics Letters, 2010, 97, 231112.	3.3	20
39	Effects of resin addition on holographic polymer dispersed liquid crystals. Journal of Optics, 2009, 11, 024021.	1.5	13
40	Superior Performance Polymeric Composite Materials for High Density Optical Data Storage. Advanced Materials, 2009, 21, 589-592.	21.0	43
41	Nanocomposite polymeric materials for high density optical storage. Journal of Optics, 2009, 11, 024011.	1.5	17
42	Distributed feedback all-organic microlaser based on holographic polymer dispersed liquid crystals. Applied Physics Letters, 2009, 94, .	3.3	18
43	Modelling the Dynamical Behaviour of Holographic Gratings with Nematic Film-Polymer Slice Sequence Structure. Molecular Crystals and Liquid Crystals, 2009, 508, 14/[376]-23/[385].	0.9	2
44	Haloalkane-based polymeric mixtures for high density optical data storage. Optical Materials, 2008, 30, 1878-1882.	3.6	16
45	Holographic Patterning of Composite Polymeric Materials for Photonic Applications. Molecular Crystals and Liquid Crystals, 2008, 486, 21/[1063]-30/[1072].	0.9	1
46	At a glance determination of laser light polarization state. Applied Physics Letters, 2008, 92, 041115.	3.3	8
47	Novel blue sensitive polymeric materials for optical data storage. Proceedings of SPIE, 2008, , .	0.8	0
48	Polymeric composite materials for optical data storage and processing. , 2007, , .		0
49	Characterization of Blue Sensitive Holographic Polymer Dispersed Liquid Crystal for Microholographic Data Storage. Molecular Crystals and Liquid Crystals, 2007, 465, 203-215.	0.9	16
50	Optical characterization of liquid crystals by combined ellipsometry and half-leaky-guided-mode spectroscopy in the visible-near infrared range. Journal of Applied Physics, 2007, 101, 073105.	2.5	29
51	Large-area photonic structures in freestanding films. Applied Physics Letters, 2007, 91, .	3.3	23
52	New composite blue sensitive materials for high resolution optical data storage. Proceedings of SPIE, 2007, , .	0.8	1
53	Organic and hybrid tunable bragg gratings for photonic devices. , 2007, , .		0
54	Optical properties of organic-based periodic structures. Proceedings of SPIE, 2007, , .	0.8	0

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55	Detailed investigation of high-resolution reflection gratings through angular-selectivity measurements. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 471.	2.1	11
56	Nitroxide radicals reduce shrinkage in acrylate-based holographic gratings. Optical Materials, 2007, 30, 539-544.	3.6	19
57	Blue Sensitive Mixtures for Holographic Optical Data Storage. , 2007, , .		0
58	Light-Polarization Visualizer with Polymeric Composite Mixtures. , 2007, , .		0
59	Realization and Characterization of Organic TwoDimensional Periodic Structures. , 2007, , .		0
60	New Generation of Holographic Gratings Based on Polymer-LC Composites: POLICRYPS and POLIPHEN. Molecular Crystals and Liquid Crystals, 2006, 453, 1-13.	0.9	31
61	Nematic Liquid Crystal Optical Dispersion in the Visible-Near Infrared Range. Molecular Crystals and Liquid Crystals, 2006, 454, 263/[665]-271/[673].	0.9	38
62	High accuracy optical characterization of anisotropic liquids by merging standard techniques. Applied Physics Letters, 2006, 89, 221110.	3.3	10
63	Visible and near-infrared characterization and modeling of nanosized holographic-polymer-dispersed liquid crystal gratings. Physical Review E, 2005, 72, 011702.	2.1	20
64	Spectroscopic ellipsometry study of liquid crystal and polymeric thin films in visible and near infrared. European Physical Journal E, 2004, 14, 185-192.	1.6	13
65	Dynamical behaviour of holographic gratings with a nematic film –Polymer slice sequence structure. European Physical Journal E, 2004, 15, 47-52.	1.6	15
66	Policryps Characterization in the Near Infrared. Molecular Crystals and Liquid Crystals, 2003, 398, 269-280.	0.9	14
67	Molecular engineering room-temperature bent-core nematics. Liquid Crystals, 0, , 1-11.	2.2	10