Francesco Vita

List of Publications by Year
in descending order

67 papers	1,227 citations	361413 20 h-index	414414 32 g-index
68 all docs	68 docs citations	68 times ranked	1064 citing authors

#	Article	IF	Citations
1	Cybotaxis dominates the nematic phase of bent-core mesogens: a small-angle diffuse X-ray diffraction study. Soft Matter, 2011, 7, 895-901.	2.7	100
2	The cybotactic nematic phase of bent-core mesogens: state of the art and future developments. Soft Matter, 2014, 10, 7685-7691.	2.7	64
3	Fine Tuning of Lithographic Masks through Thin Films of PS-b-PMMA with Different Molar Mass by Rapid Thermal Processing. ACS Applied Materials & Interfaces, 2014, 6, 7180-7188.	8.0	64
4	Extraordinary Magnetic Field Effect in Bent-Core Liquid Crystals. Physical Review Letters, 2011, 107, 207801.	7.8	62
5	Lyotropic Liquid-Crystalline Nanosystems as Drug Delivery Agents for 5-Fluorouracil: Structure and Cytotoxicity. Langmuir, 2017, 33, 12369-12378.	3.5	56
6	Low nematic onset temperatures and room temperature cybotactic behavior in 1,3,4-oxadiazole-based bent-core mesogens possessing lateral methyl groups. Journal of Materials Chemistry, 2012, 22, 22558.	6.7	49
7	Superiorâ€Performance Polymeric Composite Materials for Highâ€Density Optical Data Storage. Advanced Materials, 2009, 21, 589-592.	21.0	43
8	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
9	Evidence of Biaxial Order in the Cybotactic Nematic Phase of Bent-Core Mesogens. Chemistry of Materials, 2014, 26, 4671-4674.	6.7	37
10	The biaxial nematic phase of oxadiazole biphenol mesogens. Liquid Crystals, 2013, 40, 1655-1677.	2.2	36
11	Search for microscopic and macroscopic biaxiality in the cybotactic nematic phase of new oxadiazole bent-core mesogens. Physical Review E, 2016, 93, 062701.	2.1	32
12	New Generation of Holographic Gratings Based on Polymer-LC Composites: POLICRYPS and POLIPHEM. Molecular Crystals and Liquid Crystals, 2006, 453, 1-13.	0.9	31
13	Thermally induced self-assembly of cylindrical nanodomains in low molecular weight PS-b-PMMA thin films. Nanotechnology, 2014, 25, 045301.	2.6	31
14	Strong graphene oxide nanocomposites from aqueous hybrid liquid crystals. Nature Communications, 2020, 11, 830.	12.8	30
15	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
16	Electric field effect on the phase diagram of a bent-core liquid crystal. Soft Matter, 2013, 9, 6475.	2.7	29
17	Evidence of Cybotactic Order in the Nematic Phase of a Main-Chain Liquid Crystal Polymer with Bent-Core Repeat Unit. ACS Macro Letters, 2014, 3, 91-95.	4.8	29
18	Large-area photonic structures in freestanding films. Applied Physics Letters, 2007, 91, .	3.3	23

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19	The effects of lateral halogen substituents on the low-temperature cybotactic nematic phase in oxadiazole based bent-core liquid crystals. Liquid Crystals, 2015, 42, 1754-1764.	2.2	21
20	Polar order in bent-core nematics: An overview. Journal of Molecular Liquids, 2018, 267, 564-573.	4.9	21
21	Visible and near-infrared characterization and modeling of nanosized holographic-polymer-dispersed liquid crystal gratings. Physical Review E, 2005, 72, 011702.	2.1	20
22	All-optical switching of diffraction gratings infiltrated with dye-doped liquid crystals. Applied Physics Letters, 2010, 97, 231112.	3.3	20
23	Search for nematic biaxiality in bent-core mesogens: an X-ray diffraction perspective. Liquid Crystals, 2016, 43, 2254-2276.	2.2	20
24	Nitroxide radicals reduce shrinkage in acrylate-based holographic gratings. Optical Materials, 2007, 30, 539-544.	3.6	19
25	Micrometer-Scale Ordering of Silicon-Containing Block Copolymer Thin Films via High-Temperature Thermal Treatments. ACS Applied Materials & Interfaces, 2016, 8, 9897-9908.	8.0	19
26	Distributed feedback all-organic microlaser based on holographic polymer dispersed liquid crystals. Applied Physics Letters, 2009, 94, .	3.3	18
27	Optical measurement of flow rate in a microfluidic channel. Microfluidics and Nanofluidics, 2016, 20, 1.	2.2	18
28	Nanocomposite polymeric materials for high density optical storage. Journal of Optics, 2009, 11, 024011.	1.5	17
29	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
30	Haloalkane-based polymeric mixtures for high density optical data storage. Optical Materials, 2008, 30, 1878-1882.	3.6	16
31	Dynamical behaviour of holographic gratings with a nematic film --Polymer slice sequence structure. European Physical Journal E, 2004, 15, 47-52.	1.6	15
32	Effects of a cationic surfactant incorporation in phytantriol bulk cubic phases and dispersions loaded with the anticancer drug 5-fluorouracil. Journal of Molecular Liquids, 2019, 286, 110954.	4.9	15
33	Policryps Characterization in the Near Infrared. Molecular Crystals and Liquid Crystals, 2003, 398, 269-280.	0.9	14
34	Laser emission based on first order reflection by novel composite polymeric gratings. Photonics and Nanostructures - Fundamentals and Applications, 2012, 10, 140-145.	2.0	14
35	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
36	Effects of resin addition on holographic polymer dispersed liquid crystals. Journal of Optics, 2009, 11, 024021.	1.5	13

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37	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
38	High accuracy optical characterization of anisotropic liquids by merging standard techniques. Applied Physics Letters, 2006, 89, 221110.	3.3	10
39	Molecular engineering room-temperature bent-core nematics. Liquid Crystals, 0, , 1-11.	2.2	10
40	Molecular ordering in the high-temperature nematic phase of an all-aromatic liquid crystal. Soft Matter, 2016, 12, 2309-2314.	2.7	10
41	Extraordinary Field Sensitivity of Bent-Core Cybotactic Nematics. Molecular Crystals and Liquid Crystals, 2013, 573, 46-53.	0.9	9
42	Short bent-core molecules: X-ray, polarization, dielectricity, texture and electro-optics investigations. Physical Chemistry Chemical Physics, 2017, 19, 22946-22956.	2.8	9
43	At a glance determination of laser light polarization state. Applied Physics Letters, 2008, 92, 041115.	3.3	8
44	Insights into Biaxial Ordering of Bent-Core Nematics: X-Ray Diffraction Evidence. Molecular Crystals and Liquid Crystals, 2015, 611, 171-179.	0.9	8
45	Biaxial ordering in the supercooled nematic phase of bent-core mesogens: effects of molecular symmetry and outer wing lateral groups. Liquid Crystals, 2020, 47, 1986-1998.	2.2	8
46	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. Nanomaterials, 2020, 10, 1851.	4.1	7
47	Cubic and Hexagonal Mesophases for Protein Encapsulation: Structural Effects of Insulin Confinement. Langmuir, 2021, 37, 10166-10176.	3.5	7
48	Liquid crystal thermosets. A new class of high-performance materials. Liquid Crystals, 2020, 47, 2016-2026.	2.2	6
49	Comparative 2H NMR and X-Ray Diffraction Investigation of a Bent-Core Liquid Crystal Showing a Nematic Phase. Crystals, 2020, 10, 284.	2.2	6
50	Laser light polarization plastic visualizer: light scattering distribution and anisotropy. RSC Advances, 2013, 3, 7677.	3.6	5
51	Optical nonlinearity in the nematic phase of bent-core mesogens. Optics Letters, 2015, 40, 2953.	3.3	5
52	RECENT DEVELOPMENTS IN NEMATOGENIC BENT-CORE MESOGENS: AN X-RAY DIFFRACTION PERSPECTIVE. Journal of Nonlinear Optical Physics and Materials, 2011, 20, 485-499.	1.8	4
53	Nanostructure of Unconventional Liquid Crystals Investigated by Synchrotron Radiation. Nanomaterials, 2020, 10, 1679.	4.1	4
54	Microfluidic transport of photopolymerizable species for laser source integration in lab-on-a-chip photonic devices. Photonics and Nanostructures - Fundamentals and Applications, 2012, 10, 575-580.	2.0	3

#	Article	IF	Citations
55	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
56	New composite blue sensitive materials for high resolution optical data storage. Proceedings of SPIE, 2007, , .	0.8	1
57	Holographic Patterning of Composite Polymeric Materials for Photonic Applications. Molecular Crystals and Liquid Crystals, 2008, 486, 21/[1063]-30/[1072].	0.9	1
58	Nanoscale Structure of Langmuirâ€“Blodgett Film of Bent-Core Molecules. Nanomaterials, 2022, 12, 2285.	4.1	1
59	Polymeric composite materials for optical data storage and processing. , 2007, , .		0
60	Organic and hybrid tunable bragg gratings for photonic devices. , 2007, , .		0
61	Optical properties of organic-based periodic structures. Proceedings of SPIE, 2007, , .	0.8	0
62	Novel blue sensitive polymeric materials for optical data storage. Proceedings of SPIE, 2008, , .	0.8	0
63	Optical Ranging in Endoscopy: Towards Quantitative Imaging. Lecture Notes in Electrical Engineering, 2010, , 74-92.	0.4	0
64	Blue Sensitive Mixtures for Holographic Optical Data Storage. , 2007, , .		0
65	Light-Polarization Visualizer with Polymeric Composite Mixtures. , 2007, , .		0
66	Realization and Characterization of Organic TwoDimensional Periodic Structures. , 2007, , .		0
67	Physics of Matter: From the Nanoscale Structure to the Macroscopic Properties of Materials. , 2019, , 207-221.		0