

Mamatha Nagaraj

List of Publications by Year in descending order

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41
papers

1,408
citations

411340
20
h-index

371746
37
g-index

53
all docs

53
docs citations

53
times ranked

818
citing authors

#	ARTICLE	IF	CITATIONS
1	Liquid Crystal Devices for Beam Steering Applications. <i>Micromachines</i> , 2021, 12, 247.	1.4	25
2	Aqueous Phase Behavior of a NaLASâ€“Polycarboxylate Polymer System. <i>Langmuir</i> , 2021, 37, 5099-5108.	1.6	1
3	A self-healing ferroelectric liquid crystal electro-optic shutter based on vertical surface-relief grating alignment. <i>Nature Communications</i> , 2021, 12, 4717.	5.8	14
4	Stereochemical Rules Govern the Soft Selfâ€“Assembly of Achiral Compounds: Understanding the Heliconical Liquidâ€“Crystalline Phases of Bentâ€“Core Mesogens. <i>Chemistry - A European Journal</i> , 2020, 26, 4714-4733.	1.7	23
5	Variable pitch hydrodynamic electro-optic gratings utilising bent liquid crystal dimers. <i>Soft Matter</i> , 2020, 16, 10439-10453.	1.2	5
6	Liquid Crystals Templating. <i>Crystals</i> , 2020, 10, 648.	1.0	9
7	High-Performance, Transparent Solution-Processed Organic Field-Effect Transistor with Low- <i>k</i> /i> Elastomeric Gate Dielectric and Liquid Crystalline Semiconductor: Promises and Challenges. <i>ACS Applied Electronic Materials</i> , 2020, 2, 3336-3345.	2.0	19
8	Controlling the formation of heliconical smectic phases by molecular design of achiral bent-core molecules. <i>Journal of Materials Chemistry C</i> , 2020, 8, 3316-3336.	2.7	9
9	Metastable room-temperature twist-bend nematic phases via photopolymerization. <i>Physical Review E</i> , 2019, 99, 062704.	0.8	7
10	Pâ€“206: Lateâ€“News Poster: A Gratingâ€“Aligned Ferroelectric Liquid Crystal Electroâ€“Optic Shutter for Fastâ€“Switching and Shockâ€“Resistant Applications. <i>Digest of Technical Papers SID International Symposium</i> , 2019, 50, 1806-1809.	0.1	2
11	Continuously variable diffraction gratings using electroconvection in liquid crystals for beam steering applications. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	12
12	Effects of monoclinic symmetry on the properties of biaxial liquid crystals. <i>Physical Review E</i> , 2018, 97, 042702.	0.8	1
13	Anomalously low twist and bend elastic constants in an oxadiazole-based bent-core nematic liquid crystal and its mixtures; contributions of spontaneous chirality and polarity. <i>Journal of Materials Chemistry C</i> , 2018, 6, 980-988.	2.7	24
14	Liquid crystal nanoparticles for commercial drug delivery. <i>Liquid Crystals Reviews</i> , 2017, 5, 69-85.	1.1	49
15	Dielectric properties of liquid crystalline dimer mixtures exhibiting the nematic and twist-bend nematic phases. <i>Physical Review E</i> , 2017, 96, 052703.	0.8	21
16	Dark conglomerate phases of bent-core liquid crystals. <i>Liquid Crystals</i> , 2016, 43, 2244-2253.	0.9	34
17	Understanding the unusual reorganization of the nanostructure of a dark conglomerate phase. <i>Physical Review E</i> , 2015, 91, 042504.	0.8	22
18	Raman scattering studies of order parameters in liquid crystalline dimers exhibiting the nematic and twist-bend nematic phases. <i>Journal of Materials Chemistry C</i> , 2015, 3, 10007-10016.	2.7	71

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19	Field-induced refractive index variation in the dark conglomerate phase for polarization-independent switchable liquid crystal lenses. <i>Applied Optics</i> , 2014, 53, 7278.	2.1	9
20	1,2,4-Oxadiazole-Based Bent-Core Liquid Crystals with Cybotactic Nematic Phases. <i>ChemPhysChem</i> , 2014, 15, 1323-1335.	1.0	66
21	Unusual electric-field-induced transformations in the dark conglomerate phase of a bent-core liquid crystal. <i>Liquid Crystals</i> , 2014, 41, 800-811.	0.9	32
22	Electrically tunable refractive index in the dark conglomerate phase of a bent-core liquid crystal. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	21
23	Development of polar order and tilt in lamellar liquid crystalline phases of a bent-core mesogen. <i>Soft Matter</i> , 2014, 10, 5003-5016.	1.2	20
24	A Liquid Crystalline Phase with Uniform Tilt, Local Polar Order and Capability of Symmetry Breaking. <i>Advanced Materials</i> , 2013, 25, 2186-2191.	11.1	79
25	Biaxial order and a rotation of the minor director in the nematic phase of an organo-siloxane tetrapode by the electric field. <i>Journal of Chemical Physics</i> , 2012, 136, 094513.	1.2	11
26	Properties of Non-Tilted Bent-Core Orthogonal Smectic Liquid Crystal. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 553, 140-146.	0.4	5
27	Structure and Polymorphism of Biaxial Bent-Core Smectic Liquid Crystal. <i>Molecular Crystals and Liquid Crystals</i> , 2012, 553, 133-139.	0.4	3
28	Nematic Phases in 1,2,4-Oxadiazole-Based Bent-Core Liquid Crystals: Is There a Ferroelectric Switching?. <i>Advanced Functional Materials</i> , 2012, 22, 1671-1683.	7.8	108
29	Development of polar order in a bent-core liquid crystal with a new sequence of two orthogonal smectic and an adjacent nematic phase. <i>Journal of Materials Chemistry</i> , 2011, 21, 18711.	6.7	32
30	Evidence of a polar cybotactic smectic A phase in a new fluorine substituted bent-core compound. <i>Journal of Materials Chemistry</i> , 2011, 21, 17098.	6.7	22
31	Electric Field Induced Transformations and Dielectric Properties in Non-Tilted Phases of a Bent-Core Smectic Liquid Crystal. <i>Molecular Crystals and Liquid Crystals</i> , 2011, 540, 82-87.	0.4	3
32	Microsecond linear optical response in the unusual nematic phase of achiral bimesogens. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	142
33	Dielectric and Optical Study of Biaxial Bent-Core Nematic Liquid Crystal. <i>Molecular Crystals and Liquid Crystals</i> , 2011, 540, 75-81.	0.4	6
34	Sequence of Four Orthogonal Smectic Phases in an Achiral Bent-Core Liquid Crystal: Evidence for the SmA ₁ ±Phase. <i>Physical Review Letters</i> , 2011, 107, 247801.	2.9	37
35	Field-induced transformations in the biaxial order of non-tilted phases in a bent-core smectic liquid crystal. <i>Europhysics Letters</i> , 2010, 92, 26002.	0.7	34
36	Electric field induced biaxiality and the electro-optic effect in a bent-core nematic liquid crystal. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	55

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37	Spontaneous Periodic Deformations in Nonchiral Planar-Aligned Bimesogens with a Nematic-Nematic Transition and a Negative Elastic Constant. <i>Physical Review Letters</i> , 2010, 105, 167801.	2.9	307
38	Liquid crystal display modes in a nontilted bent-core biaxial smectic liquid crystal. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	44
39	Macroscopic biaxiality and electric-field-induced rotation of the minor director in the nematic phase of a bent-core liquid crystal. <i>Europhysics Letters</i> , 2010, 91, 66002.	0.7	21
40	From understanding structures in antiferro-ferri and ferroelectric liquid crystals to an unusual electro-optic effect in a bent-core nematic; a celebration of innovative materials. <i>Liquid Crystals</i> , 0, , 1-10.	0.9	0
41	Inducing Variable Pitch Gratings in Nematic Liquid Crystals Using Chirped Surface Acoustic Wave Transducers. <i>Journal Physics D: Applied Physics</i> , 0, , .	1.3	1