

# Subbarao Krishna Prasad

## List of Publications by Year in descending order

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336  
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344  
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times ranked

4175  
citing authors

#	ARTICLE	IF	CITATIONS
1	Viologen-Based Conjugated Covalent Organic Networks via Zincke Reaction. <i>Journal of the American Chemical Society</i> , 2017, 139, 9558-9565.	13.7	228
2	Self-Assembled Pentacenequinone Derivative for Trace Detection of Picric Acid. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 672-679.	8.0	191
3	Cholesterol-based nonsymmetric liquid crystal dimers: an overview. <i>Journal of Materials Chemistry</i> , 2008, 18, 2927.	6.7	129
4	Electrical conductivity and dielectric constant measurements of liquid crystal-gold nanoparticle composites. <i>Liquid Crystals</i> , 2006, 33, 1121-1125.	2.2	126
5	A Low-Molar-Mass, Monodisperse, Bent-Rod Dimer Exhibiting Biaxial Nematic and Smectic A Phases. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 3429-3432.	13.8	118
6	Blue Phase, Smectic Fluids, and Unprecedented Sequences in Liquid Crystal Dimers. <i>Chemistry of Materials</i> , 2006, 18, 6100-6102.	6.7	101
7	X-RAY Studies on the Columnar Structures of Discotic Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2003, 396, 121-139.	0.9	87
8	Evidence of a first-order smectic-C-smectic-A transition and its approach to tricritical behavior. <i>Physical Review A</i> , 1988, 37, 1824-1826.	2.5	85
9	Luminescent, Liquid Crystalline Tris( <i>N</i> -salicylideneaniline)s: Synthesis and Characterization. <i>Journal of Organic Chemistry</i> , 2009, 74, 3168-3171.	3.2	85
10	Columnar self-assembly of star-shaped luminescent oxadiazole and thiadiazole derivatives. <i>Journal of Materials Chemistry C</i> , 2015, 3, 2940-2952.	5.5	79
11	Frustrated Liquid Crystals: Synthesis and Mesomorphic Behavior of Unsymmetrical Dimers Possessing Chiral and Fluorescent Entities. <i>Chemistry of Materials</i> , 2007, 19, 2463-2472.	6.7	77
12	Solar coronal magnetic fields derived using seismology techniques applied to omnipresent sunspot waves. <i>Nature Physics</i> , 2016, 12, 179-185.	16.7	77
13	New branched chain tricycloquinazoline derivatives: a room temperature electron deficient discotic system. <i>Journal of Materials Chemistry</i> , 1999, 9, 2751-2754.	6.7	76
14	A New Class of Discotic Mesogens Derived from Tris( <i>N</i> -salicylideneaniline)s Existing in <i>C</i> <sub>3h</sub> and <i>C</i> <sub>s</sub> Keto-Enamine Forms. <i>Journal of Organic Chemistry</i> , 2007, 72, 8308-8318.	3.2	74
15	Mean-Field to Tricritical Crossover Behavior near the Smectic-A-Smectic-C Tricritical Point. <i>Physical Review Letters</i> , 1988, 61, 547-549.	7.8	70
16	Formation of Highly Luminescent Supramolecular Architectures Possessing Columnar Order from Octupolar Oxadiazole Derivatives: Hierarchical Self-Assembly from Nanospheres to Fibrous Gels. <i>Advanced Functional Materials</i> , 2009, 19, 2064-2073.	14.9	70
17	Quasi-one dimensional electrical conductivity and thermoelectric power studies on a discotic liquid crystal. <i>Pramana - Journal of Physics</i> , 1999, 53, 3-11.	1.8	69
18	Self-Assembly of Hekates-Tris( <i>N</i> -salicylideneaniline)s into Columnar Structures: Synthesis and Characterization. <i>Journal of Organic Chemistry</i> , 2013, 78, 527-544.	3.2	69

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19	Triazole-Modified Triphenylene Derivative: Self-Assembly and Sensing Applications. <i>Langmuir</i> , 2011, 27, 15275-15281.	3.5	66
20	Recent developments in discotic liquid crystals. <i>Contemporary Physics</i> , 1999, 40, 237-245.	1.8	65
21	Enhancement of electrical conductivity, dielectric anisotropy and director relaxation frequency in composites of gold nanoparticle and a weakly polar nematic liquid crystal. <i>RSC Advances</i> , 2014, 4, 4453-4462.	3.6	63
22	Schlieren textures in free-standing nematic films: evidence of biaxiality. <i>Liquid Crystals</i> , 1998, 24, 67-70.	2.2	60
23	Self-Assembly of 3h and Cs Symmetric Keto-enamine Forms of Tris(N-salicylideneanilines) into Columnar Phases: A New Family of Discotic Liquid Crystals. <i>Journal of the American Chemical Society</i> , 2004, 126, 6506-6507.	6.0	60
24	A novel calamitic liquid crystalline oligomer composed of three non-identical mesogenic entities: synthesis and characterization. <i>Chemical Communications</i> , 2000, , 57-58.	4.1	58
25	Nematic-Smectic-A-Smectic-C Multicritical Point in a Single-Component System. <i>Physical Review Letters</i> , 1984, 53, 2141-2144.	7.8	57
26	Effects of Photo-Controlled Nanophase Segregation in a Re-entrant Nematic Liquid Crystal. <i>Advanced Materials</i> , 2001, 13, 40-43.	21.0	57
27	A novel family of salicylaldimine-based five-ring symmetric and non-symmetric banana-shaped mesogens derived from laterally substituted resorcinol: synthesis and characterization. <i>Journal of Materials Chemistry</i> , 2007, 17, 284-298.	6.7	56
28	Dynamic Self-Assembly of the Liquid-Crystalline Smectic A Phase. <i>Advanced Materials</i> , 2005, 17, 2086-2091.	21.0	54
29	Periodically Clickable Polyesters: Study of Intrachain Self-Segregation Induced Folding, Crystallization, and Mesophase Formation. <i>Journal of the American Chemical Society</i> , 2014, 136, 2538-2545.	13.7	54
30	Smectic-A to smectic-A2 critical point. <i>Physical Review Letters</i> , 1987, 59, 1209-1211.	7.8	53
31	Synthesis and characterization of some new dimesogenic compounds. <i>Liquid Crystals</i> , 1999, 26, 1547-1554.	2.2	53
32	FREQUENCY-DEPENDENT DAMPING IN PROPAGATING SLOW MAGNETO-ACOUSTIC WAVES. <i>Astrophysical Journal</i> , 2014, 789, 118.	4.5	52
33	Supergelation via Purely Aromatic $\pi$ -Driven Self-Assembly of Pseudodiscotic Oxadiazole Mesogens. <i>Journal of the American Chemical Society</i> , 2014, 136, 5416-5423.	13.7	52
34	Unsymmetrical trimesogens exhibiting the undulated twist grain boundary (UTGBC*) mesophase. <i>Liquid Crystals</i> , 2001, 28, 1581-1583.	2.2	51
35	Observation of a Reentrant Twist Grain Boundary Phase. <i>Physical Review Letters</i> , 2001, 87, 085504.	7.8	50
36	Omnipresent long-period intensity oscillations in open coronal structures. <i>Astronomy and Astrophysics</i> , 2012, 546, A50.	5.1	50

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37	Propagating intensity disturbances in polar corona as seen from AIA/SDO. <i>Astronomy and Astrophysics</i> , 2011, 528, L4.	5.1	48
38	Enhancement of anisotropic conductivity, elastic, and dielectric constants in a liquid crystal-gold nanorod system. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	47
39	Novel Green Light Emitting Nondiscoid Liquid Crystalline Zinc(II) Schiffâ€™Base Complexes. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 1418-1424.	2.0	46
40	Experimental studies on a triply reentrant mesogen. <i>Journal De Physique (Paris), Lettres</i> , 1985, 46, 445-450.	2.8	45
41	Evidence of Wormlike Micellar Behavior in Chromonic Liquid Crystals:Â Rheological, X-ray, and Dielectric Studies. <i>Journal of Physical Chemistry B</i> , 2007, 111, 9741-9746.	2.6	44
42	Self-assembly of luminescent N-annulated perylene tetraesters into fluid columnar phases. <i>Soft Matter</i> , 2015, 11, 3629-3636.	2.7	44
43	Columnar Selfâ€™Assembly of Electronâ€™Deficient Dendronized <i>Bay</i>-Annulated Perylene Bisimides. <i>Chemistry - A European Journal</i> , 2018, 24, 3566-3575.	3.3	42
44	Temperature range of the smectic-A phase and its effect on the smectic-Aâ€™smectic-C transition. <i>Physical Review A</i> , 1990, 42, 2479-2481.	2.5	41
45	The first examples of optically active tris(N-salicylideneaniline)s: manifestation of chirality from molecules to fluid columnar phases. <i>Journal of Materials Chemistry</i> , 2007, 17, 4521.	6.7	41
46	Liquid crystal dimers possessing chiral rodâ€™like anisometric segments: synthesis, characterization and electroâ€™optic behaviour. <i>Liquid Crystals</i> , 2007, 34, 153-167.	2.2	41
47	ON THE SOURCE OF PROPAGATING SLOW MAGNETOACOUSTIC WAVES IN SUNSPOTS. <i>Astrophysical Journal Letters</i> , 2015, 812, L15.	8.3	41
48	Magneto-hydrodynamic Waves in Open Coronal Structures. <i>Space Science Reviews</i> , 2021, 217, 1.	8.1	41
49	A switchable salicylaldimine-based achiral bent-shaped mesogen: synthesis and characterization. <i>Journal of Materials Chemistry</i> , 2001, 11, 1818-1822.	6.7	40
50	Effect of regioisomerism on the self-assembly and photophysical behavior of 1,3,4-thiadiazole-based polycatenars. <i>Journal of Materials Chemistry C</i> , 2015, 3, 8166-8182.	5.5	40
51	Opto-dielectric effect on a nematic liquid crystal doped with a photoactive azo mesogen. <i>Journal of Applied Physics</i> , 2000, 87, 2084-2089.	2.5	39
52	Photoinduced effects in nematic liquid crystals. <i>Phase Transitions</i> , 2005, 78, 443-455.	1.3	38
53	Synthesis and aggregation behaviour of luminescent mesomorphic zinc(<math>Zn^{2+}</math>) complexes with â€™salenâ€™ type asymmetric Schiff base ligands. <i>Dalton Transactions</i> , 2015, 44, 7477-7488.	3.3	38
54	An Inside Look at Sunspot Oscillations with Higher Azimuthal Wavenumbers. <i>Astrophysical Journal</i> , 2017, 842, 59.	4.5	38

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55	Experimental studies on the B7phase of a banana-shaped achiral mesogen. <i>Liquid Crystals</i> , 2001, 28, 1239-1243.	2.2	37
56	Observation of a Chiral Smectic Phase in Azobenzene-Linked Bolaamphiphiles Containing Free Sugars. <i>Advanced Functional Materials</i> , 2005, 15, 1579-1584.	14.9	37
57	Photoinduced phase transitions. <i>Liquid Crystals</i> , 2009, 36, 705-716.	2.2	35
58	The Polytropic Index of Solar Coronal Plasma in Sunspot Fan Loops and Its Temperature Dependence. <i>Astrophysical Journal</i> , 2018, 868, 149.	4.5	34
59	The Magnetic Response of the Solar Atmosphere to Umbral Flashes. <i>Astrophysical Journal</i> , 2018, 860, 28.	4.5	34
60	Monodisperse Linear Supermolecules Stabilizing Unusual Fluid Layered Phases. <i>Organic Letters</i> , 2007, 9, 2641-2644.	4.6	33
61	Occurrence of unusually wide thermal range enantiotropic twist grain boundary TCBC* phases in unsymmetrical cholesterol and oxadiazole based liquid crystalline dimers. <i>Journal of Materials Chemistry</i> , 2011, 21, 556-561.	6.7	33
62	A chromospheric resonance cavity in a sunspot mapped with seismology. <i>Nature Astronomy</i> , 2020, 4, 220-227.	10.1	33
63	Supramolecular Helical Fluid Columns from Self-Assembly of Homomeric Dipeptides. <i>Chemistry - A European Journal</i> , 2008, 14, 10462-10471.	3.3	32
64	The biaxial smectic (SmAb) phase in nonsymmetric liquid crystal dimers comprising two rodlike anisometric segments: an unusual behavior. <i>Journal of Materials Chemistry</i> , 2006, 16, 4099.	6.7	31
65	Light induced generation of stable blue phase in photoresponsive diphenylbutadiene based mesogen. <i>Chemical Communications</i> , 2010, 46, 2796.	4.1	31
66	Optically biaxial interdigitated smectic A phase: liquid crystalline dimeric bidentate ligands and their metal complexes. <i>Journal of Materials Chemistry</i> , 2008, 18, 2096.	6.7	30
67	The first examples of supramolecular discotic C <sub>3h</sub> tris(N-salicylideneamine)s featuring inter- and intra-molecular H-bonding: synthesis and characterization. <i>Tetrahedron Letters</i> , 2010, 51, 4579-4583.	1.4	30
68	Effect of light on the polarization of a banana-shaped achiral compound doped with a photoactive azobenzene material. <i>Journal of Applied Physics</i> , 2001, 90, 48-52.	2.5	29
69	Electrooptic and Viewing Angle Characteristics of a Display Device Employing a Discotic Nematic Liquid Crystal. <i>Molecular Crystals and Liquid Crystals</i> , 2003, 397, 245-252.	0.9	29
70	Self-assembly of chiral mesoionic heterocycles into smectic phases: a new class of polar liquid crystal. <i>Tetrahedron Letters</i> , 2005, 46, 2623-2626.	1.4	29
71	Soft Glass Rheology in Liquid Crystalline Gels Formed by a Monodisperse Dipeptide. <i>Journal of Physical Chemistry B</i> , 2010, 114, 697-704.	2.6	29
72	2-phenylbenzoxazole-containing calamitic liquid crystals: synthesis and characterisation. <i>Liquid Crystals</i> , 2011, 38, 625-632.	2.2	29

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73	Photoluminescent discotic liquid crystals derived from tris( N -salicylideneaniline) and stilbene conjugates: Structure–property correlations. <i>Dyes and Pigments</i> , 2016, 132, 291-305.	3.7	29
74	Dual frequency conductivity switching in a carbon nanotube/liquid crystal composite. <i>Carbon</i> , 2013, 59, 512-517.	10.3	28
75	Observation of the Smectic-C–Smectic-I Critical Point. <i>Physical Review Letters</i> , 1995, 74, 270-273.	7.8	27
76	Characterization of a Pepper Vein Banding Virus from Chili Pepper in India. <i>Plant Disease</i> , 1997, 81, 673-676.	1.4	27
77	A novel class of banana-shaped azo compounds exhibiting antiferroelectric switching behaviour. <i>Liquid Crystals</i> , 2001, 28, 643-646.	2.2	27
78	Bent-core V-shaped mesogens consisting of salicylaldimine mesogenic segments: synthesis and characterization of mesomorphic behaviour. <i>Liquid Crystals</i> , 2004, 31, 1027-1036.	2.2	27
79	Fast Responding Robust Nematic Liquid Crystalline Gels Formed by a Monodisperse Dipeptide: Electro-Optic and Rheological Studies. <i>Journal of Physical Chemistry B</i> , 2009, 113, 6647-6651.	2.6	27
80	Cholesterol-based unsymmetrical Schiff's base dimer terminated with 4-alkoxy-5-phenylthiophene unit: synthesis and characterisation. <i>Liquid Crystals</i> , 2010, 37, 1539-1547.	2.2	27
81	Electroclinic materials with large induced tilt angles. <i>Ferroelectrics</i> , 1993, 148, 425-434.	0.6	26
82	Novel heptasubstituted triphenylene discotic liquid crystals. <i>Journal of Materials Chemistry</i> , 2000, 10, 2483-2489.	6.7	26
83	The first examples of monodispersive liquid crystalline tetramers possessing four non-identical anisometric segments. <i>Liquid Crystals</i> , 2002, 29, 231-236.	2.2	26
84	A new thermotropic reentrant behaviour in a chiral liquid crystal dimer: the occurrence of SmA–SmAb–SmA phase sequence. <i>Journal of Materials Chemistry</i> , 2009, 19, 2906.	6.7	26
85	Oscillations in Active Region Fan Loops: Observations from EIS/Hinode and AIA/SDO. <i>Solar Physics</i> , 2012, 281, 67.	2.5	26
86	Effect of ZnO nanoparticles on the morphology, dielectric, electro-optic and photo luminescence properties of a confined ferroelectric liquid crystal material. <i>Journal of Molecular Liquids</i> , 2018, 250, 381-387.	4.9	26
87	ITO-free large area PDLC smart windows: a cost-effective fabrication using spray coated SnO <sub>2</sub> on an invisible Al mesh. <i>Journal of Materials Chemistry A</i> , 2021, 9, 23157-23168.	10.3	26
88	A photodriven dual-frequency addressable optical device. <i>Journal of Applied Physics</i> , 2005, 97, 093105.	2.5	25
89	Nonequilibrium Liquid Crystalline Layered Phase Stabilized by Light. <i>Journal of Physical Chemistry B</i> , 2007, 111, 345-350.	2.6	25
90	Unusual Dielectric and Electrical Switching Behavior in the deVries Smectic Phase of Two Organosiloxane Derivatives. <i>Physical Review Letters</i> , 2009, 102, 147802.	7.8	25

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91	Binary System Exhibiting the Nematic to Twist-Bend Nematic Transition: Behavior of Permittivity and Elastic Constants. <i>Journal of Physical Chemistry B</i> , 2016, 120, 5056-5062.	2.6	25
92	Fluorine containing nonsymmetrical five-ring achiral banana-shaped compounds with columnar and synclinic antiferroelectric layered phases. <i>Soft Matter</i> , 2006, 2, 785.	2.7	24
93	Oxadiazole-based non-symmetric liquid crystalline trimers terminating with ferrocene and cholesterol units exhibiting TGBC* phase over a wide thermal range. <i>Liquid Crystals</i> , 2012, 39, 1117-1123.	2.2	24
94	DYNAMICS OF ON-DISK PLUMES AS OBSERVED WITH THE INTERFACE REGION IMAGING SPECTROGRAPH, THE ATMOSPHERIC IMAGING ASSEMBLY, AND THE HELIOSEISMIC AND MAGNETIC IMAGER. <i>Astrophysical Journal</i> , 2015, 807, 71.	4.5	24
95	Novel chiral dimesogenic bidentate ligands and their Cu(II) and Pd(II) metal complexes. <i>Liquid Crystals</i> , 2003, 30, 681-690.	2.2	23
96	Understanding the observation of large electrical conductivity in liquid crystal-carbon nanotube composites. <i>Applied Physics Letters</i> , 2009, 94, 202106.	3.3	23
97	Lamellar columnar mesomorphism in a series of oxovanadium(IV) complexes derived from N,N'-di-(4-n-alkoxysalicylidene)diaminobenzene. <i>Inorganic Chemistry Communication</i> , 2011, 14, 606-612.	3.9	23
98	Anomalously large bend elastic constant and faster electro-optic response in anisotropic gels formed by a dipeptide. <i>Journal of Applied Physics</i> , 2011, 109, 083537.	2.5	23
99	Effect of Atomic Scale Differences on the Self-Assembly of Thiophene-based Polycatenars in Liquid Crystalline and Organogel States. <i>Chemistry - A European Journal</i> , 2016, 22, 17843-17856.	3.3	23
100	Statistical Signatures of Nanoflare Activity. I. Monte Carlo Simulations and Parameter-space Exploration. <i>Astrophysical Journal</i> , 2019, 871, 133.	4.5	23
101	Chiral twisting of a smectic-A liquid crystal. <i>Physical Review E</i> , 2000, 61, 3977-3983.	2.1	22
102	Ferroelectric switching in a novel bent-shaped mesogen having two non-mesogenic units linked by an alkylene spacer. <i>Liquid Crystals</i> , 2000, 27, 585-590.	2.2	22
103	Electroclinic Effect In Unsymmetrical Dimeric Liquid Crystals Composed of Two Non-Identical Chiral Mesogenic Entities. <i>Molecular Crystals and Liquid Crystals</i> , 2001, 363, 1-17.	0.3	22
104	Novel photoluminescent lanthanidomesogens forming bilayer smectic phase derived from blue light emitting liquid crystalline, one ring O-donor Schiff-base ligands. <i>Polyhedron</i> , 2011, 30, 1040-1047.	2.2	22
105	Structural Characterization and Molecular Order of Rodlike Mesogens with Three- and Four-Ring Core by XRD and <sup>13</sup> C NMR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2013, 117, 5718-5729.	2.6	22
106	Reversible Polymorphism, Liquid Crystallinity, and Stimuli-Responsive Luminescence in a Bola-amphiphilic System: Structure-Property Correlations Through Nanoindentation and DFT Calculations. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4086-4092.	4.6	22
107	The Frequency-dependent Damping of Slow Magnetoacoustic Waves in a Sunspot Umbral Atmosphere. <i>Astrophysical Journal</i> , 2017, 847, 5.	4.5	22
108	A soft-bent dimer composite exhibiting twist-bend nematic phase: Photo-driven effects and an optical memory device. <i>Applied Physics Letters</i> , 2018, 112, 253701.	3.3	22

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109	High pressure studies on ferroelectric liquid crystals. <i>Ferroelectrics</i> , 1993, 147, 351-365.	0.6	21
110	Experimental investigations on weakly polar liquid crystal-aerosil composites. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 767-776.	1.8	21
111	Confinement-Driven Weakening of the Rotator Phase Transitions in an Alkane through a Possible Tricritical Point. <i>Langmuir</i> , 2010, 26, 18362-18368.	3.5	21
112	Enhancement of electrical conductivity of a liquid crystal-gold nanoparticle composite by a gel network of aerosil particles. <i>Applied Physics Letters</i> , 2015, 106, 083110.	3.3	21
113	Effect of graphene flakes, titanium dioxide and zinc oxide nanoparticles on the birefringence, $\lambda^{\text{V}}$ characteristics and photoluminescence properties of liquid crystal. <i>Journal of Molecular Liquids</i> , 2020, 302, 112571.	4.9	21
114	Pressure studies on ferroelectric liquid crystals. <i>Ferroelectrics</i> , 1984, 58, 101-105.	0.6	20
115	X-ray, Dielectric and High Pressure Studies on a Compound Exhibiting Ferro-, Ferri- and Antiferroelectric Smectic Phases. <i>Molecular Crystals and Liquid Crystals</i> , 1997, 292, 301-310.	0.3	20
116	Dielectric and high-pressure investigations on a thermotropic cubic mesophase. <i>Physical Review E</i> , 1999, 59, 5572-5576.	2.1	20
117	Spacer parity dependence of photoinduced effects in liquid-crystalline dimers. <i>Journal of Applied Physics</i> , 2002, 92, 838-841.	2.5	20
118	Influence of a long-chain alkane on the photoinduced nematic-isotropic transition. <i>Physical Review E</i> , 2004, 69, 021708.	2.1	20
119	Unsymmetrical cholesterol and benzoxazole-based liquid crystalline dimers: synthesis and characterisation. <i>Liquid Crystals</i> , 2011, 38, 1269-1277.	2.2	20
120	New 4-(2-(4-alkoxyphenyl)-6-methoxypyridin-4-yl)benzonnitriles: synthesis, liquid crystalline behavior and photo physical properties. <i>CrystEngComm</i> , 2014, 16, 5573-5582.	2.6	20
121	Optically active, three-ring calamitic liquid crystals: the occurrence of frustrated, helical and polar fluid mesophases. <i>New Journal of Chemistry</i> , 2015, 39, 2011-2027.	2.8	20
122	Hydrogen bond-driven columnar self-assembly of electroluminescent D <sub>2</sub> -D configured cyanopyridones. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7385-7399.	5.5	20
123	Phase behaviour of the discotic mesogen 2,3,6,7,10,11-hexahexylthiotriphenylene (HHTT) under hydrostatic pressure. <i>Liquid Crystals</i> , 2001, 28, 1679-1690.	2.2	19
124	Salicylaldimine-based symmetric dimers: synthesis and thermal behaviour. <i>Liquid Crystals</i> , 2002, 29, 1401-1408.	2.2	19
125	Comparative x-ray and dielectric measurements of smectic-A-smectic-C* transition in bulk and confined geometries. <i>Physical Review E</i> , 2002, 66, 031710.	2.1	19
126	X-ray and dielectric measurements of the smectic-A-hexatic-B transition in bulk and confined geometries. <i>Physical Review E</i> , 2004, 69, 051706.	2.1	19



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127	Ferroelectricity of a bent-core material with cholesteryl terminal chain. <i>Physical Review E</i> , 2006, 73, 051701.	2.1	19
128	Effect of aerosil dispersions on the photoinduced nematic $\leftrightarrow$ isotropic transition. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 226213.	1.8	19
129	Dynamics of Coronal Bright Points as Seen by Sun Watcher Using Active Pixel System Detector and Image Processing (SWAP), Atmospheric Imaging Assembly (AIA), and Helioseismic and Magnetic Imager (HMI). <i>Solar Physics</i> , 2013, 286, 125-142.	2.5	19
130	Evidence of continuous evolution of smectic A <sub>2</sub> from smectic A <sub>d</sub> . <i>Liquid Crystals</i> , 1987, 2, 111-116.	2.2	18
131	Photo-controlled conformation-assisted permanent optical storage device employing a polymer network liquid crystal. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 6450.	2.8	18
132	Induction of Mesomorphism through Supramolecular Assembly in Metal Coordination Compounds of $\alpha$ -salphen-Type Schiff Bases: Photoluminescence and Solvatochromism. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 4604-4614.	2.0	18
133	Synthesis and self-assembly of aroylhydrazone based polycatenars: A structure-property correlation. <i>Journal of Molecular Liquids</i> , 2019, 284, 282-290.	4.9	18
134	Manifestation of a Chiral Smectic C Phase in Diphenylbutadiene-Cored Bolaamphiphilic Sugars. <i>Advanced Functional Materials</i> , 2008, 18, 1632-1640.	14.9	17
135	Photostimulated and Photosuppressed Phase Transitions in Liquid Crystals. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10708-10710.	13.8	17
136	Oxadiazole-based unsymmetrical chiral liquid crystal dimers: synthesis and mesomorphic properties. <i>Liquid Crystals</i> , 2012, 39, 1358-1367.	2.2	17
137	Tunable Emissive Lanthanidomesogen Derived from a Room-Temperature Liquid-Crystalline Schiff-Base Ligand. <i>Chemistry - A European Journal</i> , 2013, 19, 13151-13159.	3.3	17
138	Unsymmetrical tetracatenar liquid crystals containing 2-phenylbenzoxazole: Synthesis and characterisation. <i>Liquid Crystals</i> , 2013, 40, 305-313.	2.2	17
139	Molecular approach to phase transitions in a calamitic ester substituted aroylhydrazone liquid crystal. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 1095-1101.	2.5	17
140	Carbon Nanotube Reinforced Polymer-Stabilized Liquid Crystal Device: Lowered and Thermally Invariant Threshold with Accelerated Dynamics. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 26622-26629.	8.0	17
141	Influence of terminal halogen moieties on the phase structure of short-core achiral hockey-stick-shaped mesogens: design, synthesis and structure-property relationship. <i>Molecular Systems Design and Engineering</i> , 2018, 3, 839-852.	3.4	17
142	Pressure Induced Twist Grain Boundary Phase. <i>Molecular Crystals and Liquid Crystals</i> , 1995, 260, 387-394.	0.3	16
143	Liquid crystalline dimeric compounds with an alkylene spacer. <i>Liquid Crystals</i> , 2001, 28, 761-767.	2.2	16
144	Intercalated Smectic A Phases in Banana-Shaped Liquid Crystals with Carbonate End Groups. <i>ChemPhysChem</i> , 2006, 7, 2184-2188.	2.1	16

#	ARTICLE	IF	CITATIONS
145	Electric-Field-Assisted Acceleration of the Photostimulated Nematic-Isotropic Transition. <i>Advanced Materials</i> , 2008, 20, 1363-1367.	21.0	16
146	Tuning the thermotropic properties of liquid crystalline p-substituted aroylhydrazones. <i>RSC Advances</i> , 2015, 5, 44274-44281.	3.6	16
147	Plastic columnar mesomorphism in half-disc-shaped oxovanadium(IV) Schiff base complexes. <i>Liquid Crystals</i> , 2011, 38, 615-623.	2.2	15
148	Influence of quenched disorder created by nanosilica network on phase transitions in tetracosane. <i>RSC Advances</i> , 2012, 2, 8531.	3.6	15
149	Investigation of liquid crystalline property of a new calamitic liquid crystalline system methyl 4-(4-((4-((decyloxy)benzyloxy)benzylideneamino)benzoate. <i>Liquid Crystals</i> , 2017, 44, 1185-1193.	2.2	15
150	Chiral plasmonic liquid crystal gold nanoparticles: self-assembly into a circular dichroism responsive helical lamellar superstructure. <i>Nanoscale Advances</i> , 2021, 3, 2269-2279.	4.6	15
151	Experimental Studies on a Terminally Nitro Substituted Compound with a Latent Reentrant Nematic Phase. <i>Molecular Crystals and Liquid Crystals</i> , 1985, 124, 21-26.	0.8	14
152	Dielectric studies of Goldstone mode and soft mode in the vicinity of the A-C* transition. <i>Journal De Physique II</i> , 1991, 1, 171-180.	0.9	14
153	Achiral banana-shaped mesogenic bidentate ligands and their Cu(II) and Pd(II) complexes. <i>Liquid Crystals</i> , 2002, 29, 1181-1185.	2.2	14
154	Studies of the mesomorphic behavior of bivalent carbohydrate amphiphiles. <i>Journal of Materials Chemistry</i> , 2007, 17, 2228.	6.7	14
155	Behaviour of photosensitive soft materials: Thermo-optical, dielectric and elastic constant studies on azo-dye doped nematic liquid crystals. <i>Materials Chemistry and Physics</i> , 2011, 130, 1329-1335.	4.0	14
156	Novel columnar-calamitic phase sequences in a binary system of bent-core and rod-like mesogens. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7488.	5.5	14
157	Viscoelastic Behavior of a Binary System of Strongly Polar Bent-Core and Rodlike Nematic Liquid Crystals. <i>Journal of Physical Chemistry B</i> , 2014, 118, 14526-14535.	2.6	14
158	Zinc(II)-salphen complexes bearing long alkoxy side arms: Synthesis, solvent dependent aggregation, and spacer group substituent effect on mesomorphism and photophysical property. <i>Journal of Molecular Liquids</i> , 2017, 246, 290-301.	4.9	14
159	Transforming a $C_{3v}$ -Symmetrical Liquid Crystal to a $\gamma$ -Gelator by Alkoxy Chain Variation. <i>ACS Omega</i> , 2018, 3, 4392-4399.	3.5	14
160	Triboelectric Nanogenerator Based on Biocompatible and Easily Available Polymer Films. <i>ChemistrySelect</i> , 2018, 3, 5055-5061.	1.5	14
161	Anisotropic Fast Electrically Switchable Emission from Composites of $CsPbBr_3$ Perovskite Quantum Cuboids in a Nematic Liquid Crystal. <i>Advanced Optical Materials</i> , 2019, 7, 1801408.	7.3	14
162	The Temperature-Dependent Damping of Propagating Slow Magnetoacoustic Waves. <i>Frontiers in Astronomy and Space Sciences</i> , 2019, 6, .	2.8	14

#	ARTICLE	IF	CITATIONS
163	The Topology of the P-T Diagram of DOBBCA in the Vicinity of the Reentrant Nematicâ€”Smectic Câ€”Smectic A Multicritical Point. <i>Molecular Crystals and Liquid Crystals</i> , 1983, 103, 137-142.	0.8	13
164	High pressure studies on ferroelectric liquid crystals. <i>Ferroelectrics</i> , 1991, 121, 307-318.	0.6	13
165	Synthesis and thermal behaviour of salicyldimine-based liquid crystalline symmetrical dimers. <i>Liquid Crystals</i> , 2003, 30, 899-908.	2.2	13
166	Self-organization of mesomericâ€”ionic hybrid heterocycles into liquid crystal phases: a new class of polar mesogens. <i>Chemical Communications</i> , 2005, , 1552-1554.	4.1	13
167	Pretransitional behaviour in the vicinity of the isotropicâ€”nematic transition of strongly polar compounds. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 465106.	1.8	13
168	Photo-driven giant reduction of the Frank elastic constants in a bent-core nematic liquid crystal. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	13
169	UNRAVELLING THE COMPONENTS OF A MULTI-THERMAL CORONAL LOOP USING MAGNETOHYDRODYNAMIC SEISMOLOGY. <i>Astrophysical Journal</i> , 2017, 834, 103.	4.5	13
170	Nanophase Segregation of Nanostructures: Induction of Smectic A and Re-Entrance in a Carbon Nanotube/Nematic Liquid Crystal Composite. <i>Journal of Physical Chemistry B</i> , 2018, 122, 10774-10781.	2.6	13
171	Ferroelectric liquid crystals derived from <i>trans</i> -p-n-alkoxycinnamic acids. <i>Ferroelectrics</i> , 1991, 114, 273-282.	0.6	12
172	High Pressure Studies on Hexa- <i>n</i> -alkoxy Triphenylene Homologous Series. <i>Molecular Crystals and Liquid Crystals</i> , 1998, 319, 193-206.	0.3	12
173	Effect of pressure on the photoinduced nematic-isotropic phase transition. <i>Physical Review E</i> , 2001, 64, 011706.	2.1	12
174	Monodisperse Unsymmetrical Tetramers Exhibiting a Columnar Phase. <i>Molecular Crystals and Liquid Crystals</i> , 2003, 397, 207-229.	0.9	12
175	Photoluminescent columnar zinc(II) bimetallo mesogen of tridentate [ONO]-donor Schiff base ligand. <i>Liquid Crystals</i> , 2013, 40, 942-950.	2.2	12
176	Self-Assembling and Luminescent Properties of Chiral Bisoxadiazole Derivatives in Solution and Liquid-Crystalline Phases. <i>Journal of Physical Chemistry B</i> , 2017, 121, 1922-1929.	2.6	12
177	Switchable smart windows using a biopolymer network of cellulose nanocrystals imposed on a nematic liquid crystal. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	12
178	Evolution of supersonic downflows in a sunspot. <i>Astronomy and Astrophysics</i> , 2020, 636, A35.	5.1	12
179	Effect of the $I^*$ phase temperature range on the nature of the tilted fluid to hexatic transition. <i>Ferroelectrics</i> , 1991, 121, 235-245.	0.6	11
180	Measurement of rotational viscosity in the Smectic C phase. <i>Ferroelectrics</i> , 1991, 121, 319-334.	0.6	11

#	ARTICLE	IF	CITATIONS
181	Dielectric studies in the vicinity of the A-C* transition. <i>Ferroelectrics</i> , 1993, 138, 37-49.	0.6	11
182	Measurements of Pitch of a Ferroelectric Liquid Crystal at High Pressures. <i>Molecular Crystals and Liquid Crystals</i> , 1995, 263, 311-323.	0.3	11
183	Phase behaviour of thermotropic banana-shaped compounds under pressure. <i>Liquid Crystals</i> , 2003, 30, 1277-1283.	2.2	11
184	In situ observation of the pressure-induced mesophase for 4-hexadecyloxy-3-nitrobiphenyl-4-carboxylic acid. <i>Liquid Crystals</i> , 2003, 30, 7-16.	2.2	11
185	Photoinduced effects in the vicinity of the smectic-A-smectic-CA* transition: Polarization, tilt angle, and response time studies. <i>Physical Review E</i> , 2006, 73, 011712.	2.1	11
186	High-Pressure Dielectric Investigations of Nanocolloidal Aerosil~Nematic Liquid Crystal Composites. <i>Journal of Physical Chemistry B</i> , 2010, 114, 12825-12832.	2.6	11
187	A photo-driven dual-frequency addressable optical device of banana-shaped molecules. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	11
188	Novel Data Analysis Techniques in Coronal Seismology. <i>Space Science Reviews</i> , 2022, 218, 1.	8.1	11
189	High Pressure Studies on Partially Bilayer and Monolayer Smectics. <i>Molecular Crystals and Liquid Crystals</i> , 1983, 99, 185-191.	0.8	10
190	Pressure Studies on 7S, 8S and Their Mixtures. <i>Molecular Crystals and Liquid Crystals</i> , 1983, 99, 193-202.	0.8	10
191	A New Kind of A-A Transition: Studies on Binary Mixtures of Terminally Substituted Cyano and Nitro Compounds. <i>Molecular Crystals and Liquid Crystals</i> , 1984, 102, 105-111.	0.8	10
192	A <sub>d</sub> -A <sub>d</sub> Transition in a Binary Liquid Crystal System. <i>Molecular Crystals and Liquid Crystals</i> , 1985, 130, 179-193.	0.8	10
193	Time-resolved measurements of the dynamics of the photoinduced smectic-C*~smectic-A transition. <i>Physical Review E</i> , 2003, 67, 051701.	2.1	10
194	Enhanced dynamic response of the photoinduced nematic~isotropic transition in a polymer matrix. <i>Applied Physics Letters</i> , 2003, 83, 2707-2709.	3.3	10
195	Kinetics of the thermal back relaxation time of the photoinduced nematic-isotropic transition. <i>Physical Review E</i> , 2007, 75, 031710.	2.1	10
196	Electro-optic modulation by silica-nanostructured nematic system (aerosil/7CB nanocomposite). <i>Composites Part B: Engineering</i> , 2016, 90, 471-477.	12.0	10
197	Photoinduced nematic-isotropic phase transition: A case for the random-field Ising model. <i>Physical Review E</i> , 2001, 64, 041702.	2.1	9
198	Effect of pressure on the dynamics of the photostimulated orientational ordering transition in a liquid crystal. <i>Physical Review E</i> , 2005, 72, 021705.	2.1	9

#	ARTICLE	IF	CITATIONS
199	Effect of high pressure on the nematic $\leftrightarrow$ isotropic transition in aerosil $\leftrightarrow$ liquid crystal composites. <i>Thermochimica Acta</i> , 2009, 495, 115-119.	2.7	9
200	Role of hydroxyl group on the mesomorphism of alkyl glycosides: synthesis and thermal behavior of alkyl 6-deoxy- $\beta$ -D-glucopyranosides. <i>Chemistry and Physics of Lipids</i> , 2010, 163, 580-585.	3.2	9
201	New Photoactive Guest-Host Nematics Showing Photoflexoelectricity. <i>Molecular Crystals and Liquid Crystals</i> , 2011, 544, 3/[991]-13/[1001].	0.9	9
202	Observation of a chiral smectic C phase over a wide thermal range with novel phase sequences in rigid, bulky chiral dimers. <i>Journal of Materials Chemistry C</i> , 2013, 1, 5799.	5.5	9
203	Fast Photoluminescence Switching in the Nematic Phase of Calamitic $\leftrightarrow$ Discotic Composites. <i>Advanced Optical Materials</i> , 2015, 3, 1116-1124.	7.3	9
204	Influence of virtual surfaces on Frank elastic constants in a polymer-stabilized bent-core nematic liquid crystal. <i>Physical Review E</i> , 2016, 93, 042706.	2.1	9
205	Photo-driven change in the polar environment tunes gelation in a nematic liquid crystal. <i>Journal of Materials Chemistry C</i> , 2016, 4, 11313-11320.	5.5	9
206	Photoluminescent tetrahedral d 10 -metal Schiff base complexes exhibiting highly ordered mesomorphism. <i>Polyhedron</i> , 2016, 105, 150-158.	2.2	9
207	The Chromospheric Response to the Sunquake Generated by the X9.3 Flare of NOAA 12673. <i>Astrophysical Journal</i> , 2019, 881, 82.	4.5	9
208	Novel tris-buffer based Schiff base bearing long flexible alkoxy arm and its lanthanide complexes: Mesomorphism and photoluminescence. <i>Journal of Molecular Structure</i> , 2019, 1180, 472-479.	3.6	9
209	Porous nanocarbon particles drive large magnitude and fast photomechanical actuators. <i>Journal of Nanostructure in Chemistry</i> , 2022, 12, 235-248.	9.1	9
210	Observation of a smectic C $\leftrightarrow$ smectic I* critical point in a binary system using polarisation measurements. <i>Journal of Materials Chemistry</i> , 1995, 5, 2253.	6.7	8
211	Dielectric studies under high pressure on strongly polar liquid crystals exhibiting monolayer smectic A phase. <i>Thermochimica Acta</i> , 2007, 452, 65-70.	2.7	8
212	Synthesis and mesogenic properties of $\beta$ -tetrabrominated tetraalkyloxyporphyrins. <i>Journal of Porphyrins and Phthalocyanines</i> , 2008, 12, 54-64.	0.8	8
213	Enhanced Frank elasticity and storage modulus in a diamagnetic liquid crystalline ferrogel. <i>Soft Matter</i> , 2011, 7, 10151.	2.7	8
214	A charge transfer complex nematic liquid crystalline gel with high electrical conductivity. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	8
215	Influence of polymer stabilization on the dielectric relaxations of an antiferroelectric liquid crystal. <i>RSC Advances</i> , 2014, 4, 3121-3130.	3.6	8
216	Connector type $\leftrightarrow$ controlled mesophase structures in poly(propyl ether imine) dendritic liquid crystals of identical dendrimer generations. <i>Journal of Polymer Science Part A</i> , 2017, 55, 3665-3678.	2.3	8

#	ARTICLE	IF	CITATIONS
217	Confinement-driven radical change in a sequence of rotator phases: a study on <i>n</i> -octacosane. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 24345-24352.	2.8	8
218	Multifunctional Lanthanide Complexes: Mesomorphism, Photoluminescence and Second Order NLO Property. <i>ChemistrySelect</i> , 2018, 3, 8245-8251.	1.5	8
219	Graphene-Augmented Polymer Stabilization: Drastically Reduced and Temperature-Independent Threshold and Improved Contrast Liquid Crystal Device. <i>ACS Omega</i> , 2019, 4, 403-411.	3.5	8
220	Dynamics of the photo-thermo-mechanical actuations in NIR-dye doped liquid crystal polymer networks. <i>Soft Matter</i> , 2022, 18, 3358-3368.	2.7	8
221	Dynamics of the two-dimensional melting transition of a liquid crystal confined in Anopore membranes. <i>Liquid Crystals</i> , 2001, 28, 1847-1853.	2.2	7
222	Crystal Structure of an Unsymmetrical Dimeric Liquid Crystal with a Wide Temperature Range Chiral Smectic A Phase. <i>Molecular Crystals and Liquid Crystals</i> , 2001, 364, 567-574.	0.3	7
223	Effect of hydrostatic pressure on the Frank splay and bend elastic constants. <i>Thermochimica Acta</i> , 2012, 537, 65-69.	2.7	7
224	THERMAL STRUCTURE OF CORONAL LOOPS AS SEEN WITH NORIKURA CORONAGRAPH. <i>Astrophysical Journal Letters</i> , 2013, 765, L46.	8.3	7
225	Flexo-Dielectro-Optical Spectroscopy as a Method of Studying Nanostructured Nematic Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2015, 610, 51-62.	0.9	7
226	Iron(III) metallomesogen of [N2O2] donor Schiff base ligand containing 4-substituted alkoxy chains. <i>Liquid Crystals</i> , 2016, 43, 1606-1615.	2.2	7
227	Effect of Pressure on Dielectric and Frank Elastic Constants of a Material Exhibiting the Twist Bend Nematic Phase. <i>Journal of Physical Chemistry B</i> , 2017, 121, 896-903.	2.6	7
228	Substituted Aroylhydrazone Based Polycatenars: Tuning of Liquid Crystalline Self-Assembly. <i>ChemistrySelect</i> , 2018, 3, 4027-4037.	1.5	7
229	A Statistical Study on the Frequency-dependent Damping of the Slow-mode Waves in Polar Plumes and Interplumes. <i>Astrophysical Journal</i> , 2018, 853, 134.	4.5	7
230	Suppression of the reentrant nematic and stabilization of the smectic phases by carbon nanotubes. <i>Journal of Molecular Liquids</i> , 2019, 286, 110858.	4.9	7
231	Experimental studies in the vicinity of the C*-I* transition. <i>Ferroelectrics</i> , 1991, 121, 343-353.	0.6	6
232	Phase diagram exhibiting a smectic-C-smectic-F meeting point. <i>Physical Review A</i> , 1992, 46, R726-R728.	2.5	6
233	First Observation of a Photo-Induced Transition to a More Ordered Phase in a System Exhibiting Reentrant Nematic - Smectic A Phase Sequence. <i>Molecular Crystals and Liquid Crystals</i> , 2000, 350, 79-86.	0.3	6
234	Photoinduced effects in the vicinity of the smectic-C* to smectic-A transition. <i>Physical Review E</i> , 2002, 65, 031718.	2.1	6

#	ARTICLE	IF	CITATIONS
235	Effect of Electric Field on the TGBC* Phase. <i>Ferroelectrics</i> , 2002, 277, 117-124.	0.6	6
236	Phase Behaviour of the Discotic Mesogen 2,3,6,7,10,11-Hexahexyl Thiotriphenylene (HHTT) Under Pressure. <i>Molecular Crystals and Liquid Crystals</i> , 2003, 397, 129-142.	0.9	6
237	Biaxial Nematic and Smectic A Phases in a "Peelable Banana-Shaped" Molecule. <i>Molecular Crystals and Liquid Crystals</i> , 2005, 437, 211/[1455]-221/[1465].	0.9	6
238	High pressure investigations of the photo-stimulated orientational ordering transition in a liquid crystal with photoactive dimeric molecules. <i>Thermochimica Acta</i> , 2006, 440, 205-211.	2.7	6
239	Investigations of the opto-dielectric effects in the vicinity of the smectic-A "smectic-CA*" transition. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 9415-9425.	1.8	6
240	Effect of the C-2 hydroxyl group on the mesomorphism of alkyl glycosides: synthesis and thermotropic behavior of alkyl 2-deoxy-d-arabino-hexopyranosides. <i>Chemistry and Physics of Lipids</i> , 2008, 155, 90-97.	3.2	6
241	Conoscopic evidence of the UV light-induced flexoelectric effect in homeotropic layers of nematic liquid crystal doped with azobenzene derivatives. <i>Journal of Physics: Conference Series</i> , 2010, 253, 012060.	0.4	6
242	Critical behavior of three organosiloxane de Vries-type liquid crystals observed via the dielectric response. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 105902.	1.8	6
243	Self-assembly of chiral hexacatenar-bisamides into a columnar structure. <i>RSC Advances</i> , 2012, 2, 1592-1597.	3.6	6
244	Synthesis and characterization of supramolecular optically active bisamides derived from amino acids. <i>Tetrahedron</i> , 2012, 68, 6528-6534.	1.9	6
245	Anchoring Transition Induced by Gelation in a Liquid Crystal System. <i>ChemPhysChem</i> , 2013, 14, 331-337.	2.1	6
246	Influence of polarization-tilt coupling on the ferroelectric properties of smectic gels. <i>Soft Matter</i> , 2014, 10, 5905-5915.	2.7	6
247	Competition between Anisometric and Aliphatic Entities: An Unusual Phase Sequence with the Induction of a Phase in an <i>n</i> -Alkane "Liquid Crystal Binary System. <i>Langmuir</i> , 2014, 30, 4465-4473.	3.5	6
248	Propagating disturbances along fan-like coronal loops in an active region. <i>Research in Astronomy and Astrophysics</i> , 2015, 15, 1832-1842.	1.7	6
249	TIME-DEPENDENT SUPPRESSION OF OSCILLATORY POWER IN EVOLVING SOLAR MAGNETIC FIELDS. <i>Astrophysical Journal</i> , 2016, 823, 45.	4.5	6
250	Observation of exceptional "de Vries-like"™ properties in a conventional aroylhydrazone based liquid crystal. <i>RSC Advances</i> , 2016, 6, 57799-57802.	3.6	6
251	Mesomorphic Schiff base amine tethered giant gold nanoparticles. <i>Liquid Crystals</i> , 2017, 44, 2259-2266.	2.2	6
252	Influence of gold nanorods on the structure and photonic bandgap in a twist grain boundary phase with smectic C* blocks. <i>Journal of Molecular Liquids</i> , 2020, 299, 112117.	4.9	6

#	ARTICLE	IF	CITATIONS
253	Effect of alkoxy chain density on the mesogenic properties of aroylhydrazone based liquid crystals: synthesis, characterisation, photophysical and gelation behaviour. <i>Liquid Crystals</i> , 2020, 47, 1750-1761.	2.2	6
254	Compressive Oscillations in Hot Coronal Loops: Are Sloshing Oscillations and Standing Slow Waves Independent?. <i>Astrophysical Journal</i> , 2021, 914, 81.	4.5	6
255	Dielectric investigations of the dynamics of the hexatic-hexatic transition in a chiral liquid crystal. <i>Physical Review E</i> , 1998, 57, 1789-1792.	2.1	5
256	Comparative x-ray measurements of a de Vries smectic-A material in bulk and confined geometries. <i>Physical Review E</i> , 2005, 72, 062701.	2.1	5
257	Electric-field-dictated phase diagram and accelerated dynamics of a reentrant nematic liquid crystal under photostimulation. <i>Physical Review E</i> , 2009, 80, 021703.	2.1	5
258	Photo-Stimulated and Photo-Suppressed Phase Transitions. <i>Molecular Crystals and Liquid Crystals</i> , 2009, 509, 317/[1059]-327/[1069].	0.9	5
259	Variation of Emission Line Width in Mid- and High-Latitude Corona. <i>Solar Physics</i> , 2013, 282, 427-442.	2.5	5
260	Giant enhancement of photoluminescence and tertiary emission in a chiral nematic by matching photonic band gap and excitation wavelength. <i>Journal of Molecular Liquids</i> , 2018, 262, 354-362.	4.9	5
261	Influence of ZnO nanoparticles on the polarization, dielectric and electro-optic behaviour in the smectic C* and hexatic I* phases. <i>Journal of Molecular Liquids</i> , 2019, 275, 421-430.	4.9	5
262	Gram-Scale Synthesis and Multifunctional Properties of a Two-Dimensional Layered Copper(II) Coordination Polymer. <i>ACS Applied Polymer Materials</i> , 2020, 2, 1543-1552.	4.4	5
263	Dielectric and electro optic studies in the vicinity of the transition between two tilted hexatic phases of a ZnO-liquid crystal nanocomposite. <i>Journal of Molecular Liquids</i> , 2020, 302, 112508.	4.9	5
264	High Pressure Study of Phase Transitions in DMPC-Water System. <i>Molecular Crystals and Liquid Crystals</i> , 1984, 110, 153-160.	0.8	4
265	Dielectric Study of a Ferroelectric Liquid Crystal at High Pressure. , 1993, , 285-299.		4
266	Dielectric Studies on Strongly Polar Discotic Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 1998, 319, 89-99.	0.3	4
267	Anomalous increase of photocurrent anisotropy in a liquid crystalline binary mixture. <i>Journal of Applied Physics</i> , 2002, 92, 6987-6989.	2.5	4
268	High Pressure Investigations on the Phase Behaviour of Discotic Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2003, 397, 143-159.	0.9	4
269	Polymer network as a template for control of photoconductivity of a liquid crystal semiconductor. <i>Liquid Crystals</i> , 2004, 31, 1265-1270.	2.2	4
270	Diminution of the Ordering in Plastic and Liquid Crystalline Phases by Confinement. <i>Journal of Physical Chemistry B</i> , 2010, 114, 7474-7481.	2.6	4



#	ARTICLE	IF	CITATIONS
271	High-Pressure Investigations of a Ferroelectric Liquid Crystal Exhibiting a Trend Reversal in the Thermal Variation of Polarization. <i>Journal of Physical Chemistry B</i> , 2011, 115, 10425-10430.	2.6	4
272	Effect of pressure on the dielectric behavior of a bent-core liquid crystal. <i>Physical Review E</i> , 2013, 87, 042504.	2.1	4
273	THE EFFECTS OF TRANSIENTS ON PHOTOSPHERIC AND CHROMOSPHERIC POWER DISTRIBUTIONS. <i>Astrophysical Journal</i> , 2016, 828, 23.	4.5	4
274	Large reduction in the magnitude and thermal variation of Frank elastic constants in a gold nanorod/nematic composite. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 425304.	2.8	4
275	Enhanced photoluminescence in a chiral nematic liquid crystal through polymer stabilization and an erasable 3-state memory device. <i>Journal of Molecular Liquids</i> , 2019, 292, 111338.	4.9	4
276	Synergistic Path for Dual Anisotropic and Electrically Switchable Emission From a Nanocomposite of CsPbBr <sub>3</sub> Quantum Cuboids and Nematic Liquid Crystal. <i>Crystals</i> , 2019, 9, 378.	2.2	4
277	Fast Responsive Soft Bio-mimetic Robotic Actuators. <i>Materials Today: Proceedings</i> , 2019, 15, 300-308.	1.8	4
278	Effect of regioisomerism on the self-assembly, photophysical and gelation behavior of aroylhydrazone based polycatenars: Synthesis and characterization. <i>Journal of Molecular Liquids</i> , 2019, 289, 111133.	4.9	4
279	Grafting a mesomorphic Schiff base onto gold nanoparticle via ester link – photoluminescence, mesomorphism, electrical conductivity and antioxidant activity. <i>Liquid Crystals</i> , 2019, 46, 609-617.	2.2	4
280	Effect of pressure on liquid crystal dimers. <i>Liquid Crystals</i> , 2003, 30, 1351-1355.	2.2	3
281	Wide Viewing Angle and Fast Responding TN LCD. <i>Molecular Crystals and Liquid Crystals</i> , 2004, 410, 359-368.	0.9	3
282	Photoinduced Phase Transitions in Liquid Crystalline Systems. <i>Molecular Crystals and Liquid Crystals</i> , 2005, 436, 83/[1037]-105/[1059].	0.9	3
283	Anomalous dielectric behavior in the nematic and isotropic phases of a strongly polar – weakly polar binary system. <i>Phase Transitions</i> , 2013, 86, 454-462.	1.3	3
284	Confinement driven effects in a room temperature ferroelectric liquid crystal: X-ray, linear and non-linear dielectric investigations. <i>Phase Transitions</i> , 2013, 86, 323-338.	1.3	3
285	Dielectric properties of anti-ferroelectric B phase of bent core liquid crystal. <i>Journal of Molecular Liquids</i> , 2015, 212, 127-132.	4.9	3
286	Anchoring transition driven by short range ordering in calamitic-discotic composites. <i>Thermochimica Acta</i> , 2015, 616, 61-68.	2.7	3
287	Mechanochemical Synthesis and Temperature-Dependent Optical Properties of Thermochromic (Ag <sub>1-x</sub> Cu <sub>x</sub> ) <sub>2</sub> Hg <sub>4</sub> . <i>Chemistry - an Asian Journal</i> , 2019, 14, 4641-4644.	3.3	3
288	Self-assembly of taper- and wedge-shaped maleimide derivatives: Synthesis and structure-property relationship. <i>Journal of Molecular Liquids</i> , 2019, 284, 765-772.	4.9	3

#	ARTICLE	IF	CITATIONS
289	Photoluminescent nickel(II)-metallomesogens derived from salphen ligands: influence of halogens at the spacer on mesomorphism and emission properties. <i>Liquid Crystals</i> , 2019, 46, 872-883.	2.2	3
290	Dielectric and viscoelastic investigations in a binary system of soft- and rigid-bent mesogens exhibiting the twist-bend nematic phase. <i>Journal of Molecular Liquids</i> , 2021, 323, 114987.	4.9	3
291	Metal-free C-H functionalization of pyrrolidine to pyrrolinium-based room temperature ionic liquid crystals. <i>New Journal of Chemistry</i> , 2021, 45, 8064-8071.	2.8	3
292	Conjunctive Photoluminescence Enhancement Through Plasmonic and Photonic Band-Gap Pathways in a Chiral Self-Assembled System. <i>ChemPhotoChem</i> , 2020, 4, 582-591.	3.0	3
293	Enhanced luminescence, electric-field and actinic-light modulation of emission in nematic-CdSeS gradient nanocrystal composites by polymer confinement. <i>Journal of Molecular Liquids</i> , 2022, 347, 118004.	4.9	3
294	Trans-cis photoisomerization-induced tilted anchoring in photoactive guest-host liquid crystalline systems. <i>Journal of Physics: Conference Series</i> , 2012, 398, 012038.	0.4	2
295	Photo-controllable electro-optics of aerosil/7CB nanocomposite nematic doped with azo-bonded molecules. <i>Journal of Physics: Conference Series</i> , 2016, 682, 012030.	0.4	2
296	In-plane modulated smectic $A_f$ vs smectic $A^*$ lamellar structures in poly(ethyl or propyl ether imine) dendrimers. <i>Polymer</i> , 2016, 86, 98-104.	3.8	2
297	Influence of chirality on the thermal and electric properties of the columnar mesophase exhibited by homomeric dipeptides. <i>Journal of Chemical Physics</i> , 2017, 147, 134905.	3.0	2
298	Nanometer Confinement-Driven Promotion and Stabilization of a Hexatic Phase Intervening between Ordered Rotator Phases. <i>Journal of Physical Chemistry B</i> , 2018, 122, 10953-10963.	2.6	2
299	Impact of Photoisomerization on the One-Dimensional Fluid and Three-Dimensional Abrikosov-like Photonic Structures of Liquid Crystals. <i>Journal of Physical Chemistry C</i> , 2020, 124, 13920-13929.	3.1	2
300	Liquid crystalline oxovanadium(IV) and copper(II) complexes of halogen-substituted salphen ligands: role of metal and spacer substituents. <i>Liquid Crystals</i> , 2021, 48, 902-914.	2.2	2
301	Investigation of mesomorphic, photophysical and gelation behavior in aroylhydrazone based liquid crystals: Observation of mesophase crossover phenomena. <i>Journal of Molecular Liquids</i> , 2022, 346, 117084.	4.9	2
302	Full Stokes polarimetry using dual-frequency liquid crystals. , 2018, , .		2
303	Thin films of silica nanoparticle doped nematic liquid crystal 7CB for electro-optic modulation. <i>Photonics Letters of Poland</i> , 2015, 7, .	0.4	2
304	Solution-Processed h-BN Film as an Alignment Layer for Liquid Crystal Devices: Realization of a Non-Polymer Approach for Unidirectional Alignment over Unprecedentedly Large Areas. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	2
305	Synthesis and Miscibility Studies of Some Phenyl Cinnamoyloxybenzoate derivatives?. <i>Molecular Crystals and Liquid Crystals</i> , 1983, 103, 235-241.	0.8	1
306	Dielectric Behavior near a Smectic A <sub>1</sub> -Smectic A <sub>2</sub> Critical Point. <i>Molecular Crystals and Liquid Crystals</i> , 1991, 198, 291-297.	0.7	1

#	ARTICLE	IF	CITATIONS
307	Influence of Bond Orientational Order on the Switching Time of Ferroelectric Smectics. <i>Molecular Crystals and Liquid Crystals</i> , 1996, 288, 63-72.	0.3	1
308	Photoconductivity Measurements in the Discotic Columnar Phase of a few Anthraquinone Derivatives. <i>Molecular Crystals and Liquid Crystals</i> , 2003, 396, 113-119.	0.9	1
309	X-ray and Dielectric Measurements of Smectic A-Hexatic B Transition in Bulk and Confined Geometries. <i>Molecular Crystals and Liquid Crystals</i> , 2005, 438, 151/[1715]-162/[1726].	0.9	1
310	Dielectric behavior in the nematic and isotropic phases of a strongly polar-weakly polar binary system. , 2012, , .		1
311	Propagating disturbances along a coronal loop from simultaneous EUV imaging and spectroscopic observations. <i>Research in Astronomy and Astrophysics</i> , 2015, 15, 1027-1035.	1.7	1
312	Liquid Crystals Under High Pressure. , 2016, , .		1
313	Diminished Splay Stiffening in Weak Gels of Calamiticâ€“Bent-Core Nematic Composites. <i>Journal of Physical Chemistry B</i> , 2016, 120, 2596-2603.	2.6	1
314	Dielectric study of azo-doped aerosil/7CB nematic nanocomposite upon UV light. <i>Journal of Physics: Conference Series</i> , 2017, 780, 012009.	0.4	1
315	Photoresponsive azo-doped aerosil/7CB nematic nanocomposites: the effect from concentration of the azobenzene photoactive agent. <i>Journal of Physics: Conference Series</i> , 2017, 794, 012037.	0.4	1
316	Light-stimulated electro-optics by azo-doped aerosil/7CB nanocomposites. <i>Opto-electronics Review</i> , 2018, 26, 172-182.	2.4	1
317	The fascinating world of Soft Materials. <i>Bulletin of Materials Science</i> , 2020, 43, 1.	1.7	1
318	Photoisomerizationâ€“Driven Photoluminescence Modulation in CdSeS Gradient Quantum Dot/Liquid Crystal Nanocomposites. <i>ChemPhotoChem</i> , 2020, 4, 413-419.	3.0	1
319	MIT SYMPOSIUM to honour Professor S Chandrasekhar, June 1991. <i>Liquid Crystals Today</i> , 1991, 1, 5-5.	2.3	0
320	An Experimental Study of the Smectic A-Smectic C Transitions in Monolayer, Partially Bilayer and Bilayer Systems. <i>Molecular Crystals and Liquid Crystals</i> , 1994, 238, 241-247.	0.3	0
321	Comparative study of the collective mode dynamics in ferroelectric liquid crystalline monomers and their corresponding copolymers. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996, 224, 24-33.	2.6	0
322	Investigations of the Non-Linear Dielectric Response in the Smectic C*, Smectic I* and Smectic F* Phases of a Chiral Liquid Crystal. <i>Molecular Crystals and Liquid Crystals</i> , 2000, 350, 199-206.	0.3	0
323	Photo-Stimulated Phase Transitions. <i>Key Engineering Materials</i> , 2010, 428-429, 29-38.	0.4	0
324	Nematic Liquid Crystals: Elastic Properties. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
325	Confinement of an antiferroelectric liquid crystal in a polymer nanonetwork: thermal and dielectric behaviour. Bulletin of Materials Science, 2018, 41, 1.	1.7	0
326	Influence of zinc oxide nanorods on an orientationally ordered fluid comprising soft-bent dimers. Bulletin of Materials Science, 2018, 41, 1.	1.7	0
327	Thermal properties and structure of nematic liquid crystalline polymer nanocomposite with single wall carbon nanotubes. AIP Conference Proceedings, 2019, , .	0.4	0
328	UV light enhanced confined Fréedericksz transition in photoisomerizable nematic nanocomposite with photoactive molecules of azobenzene nematic liquid crystal. AIP Conference Proceedings, 2019, , .	0.4	0
329	Conjunctive Photoluminescence Enhancement Through Plasmonic and Photonic Bandgap Pathways in a Chiral Self-Assembled System. ChemPhotoChem, 2020, 4, 537-537.	3.0	0
330	Role of the order parameter, electric field, and geometric confinement on the dynamics of the photoinduced Nematic-Isotropic transition. , 2017, , .		0
331	Lead Kindly Light:Spectroscopy and the Periodic Table. Current Science, 2019, 117, 1967.	0.8	0
332	Nanocomposite of polymer liquid crystal/single wall carbon nanotubes: isothermal and non-isothermal phase kinetics. , 2019, , .		0
333	Polymers for confinement of liquid crystals: Influence of inorganic inclusions. , 2022, , 235-286.		0
334	Control of smectic layering in mono- <i>vs</i> disaccharide-coated polydiacetylenes. Liquid Crystals, 0, , 1-12.	2.2	0
335	Multiple pathways to stabilize/induce an ordered phase in a system exhibiting a reentrant sequence. Liquid Crystals, 0, , 1-17.	2.2	0
336	A new N <sub>2</sub> O <sub>2</sub> -donor compartmental Schiff base ligand and its cadmium(II) complex: synthesis, mesogenic and photoluminescent properties. Inorganic and Nano-Metal Chemistry, 0, , 1-10.	1.6	0