

Mathukumalli Madhu Mohan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

118
papers

1,474
citations

21
h-index

28
g-index

118
ext. papers

1,539
ext. citations

1.9
avg, IF

5.09
L-index

#	Paper	IF	Citations
118	Liquid crystalline light modulation mechanism and shuttering applications 2022 , 141-160		0
117	Superior fast switching of surface-stabilized liquid crystal switchable devices employing graphene dispersion 2022 , 185-199		
116	DETECTION OF PHASE TRANSITIONS IN LIQUID CRYSTALS THROUGH OPTICAL, THERMAL AND ELECTRICAL TECHNIQUES. <i>Optik</i> , 2022 , 168951	2.5	1
115	Diversified Applications Of Hydrogen Bond Liquid Crystals. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021 , 1084, 012089	0.4	1
114	Camphoric acid based ferroelectric hydrogen bonded liquid crystalline materials integration further dielectric relaxations and novel applications. <i>Journal of Molecular Structure</i> , 2021 , 1232, 130022	3.4	2
113	Investigation on two homologous series of ferroelectric hydrogen bond liquid crystals derived from camphoric acid and alkyloxy/alkyl benzoic acids. <i>Journal of Molecular Structure</i> , 2021 , 1231, 129678	3.4	1
112	Dielectric responses and stimulative optical shuttering action of self-assembly supramolecular hydrogen bond liquid crystalline formation via x- and y-types benzoic acids. <i>Journal of Molecular Liquids</i> , 2021 , 343, 117386	6	2
111	Phase-segregated hydrogen bonded thermotropic liquid crystal optical shuttering response and electro-optical sensor application. <i>Materials Letters</i> , 2021 , 305, 130821	3.3	1
110	Analysis of linear hydrogen bonded liquid crystal binary mixtures formed between palmitic acid and p-n- alkyloxy benzoic acids. <i>Ferroelectrics</i> , 2020 , 554, 110-133	0.6	
109	An Innovative Technique to Achieve Tunable Filtering Action by Ferroelectric Material in Infrared Region. <i>Journal of Electronic Materials</i> , 2020 , 49, 2311-2316	1.9	3
108	Comprehension of logic gates through liquid crystals. <i>Optik</i> , 2020 , 223, 165611	2.5	0
107	Fabrication of Ferroelectric Liquid Crystal Thermistor. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 5063-5068	2.9	7
106	Dielectric Investigations in a Room Temperature Ferroelectric Liquid Crystal. <i>Molecular Crystals and Liquid Crystals</i> , 2019 , 681, 32-44	0.5	4
105	Studies on thermotropic hydrogen bonded binary mixtures. <i>Molecular Crystals and Liquid Crystals</i> , 2019 , 690, 23-42	0.5	2
104	Investigations on smectic X* and re-entrant smectic C* orderings in hydrogen bonded ferroelectric liquid crystals. <i>Journal of Molecular Liquids</i> , 2019 , 273, 504-524	6	10
103	Optical and thermal characterization of double hydrogen bonded liquid crystals: Binary mixtures. <i>Ferroelectrics</i> , 2018 , 524, 102-137	0.6	8
102	CdS nanowires encapsulated liquid crystal in-plane switching of LCD device. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 10301-10310	2.1	21

101	Emerging assembly of ZnO-nanowires/graphene dispersed liquid crystal for switchable device modulation. <i>Organic Electronics</i> , 2018 , 56, 291-304	3.5	30
100	A detailed study of hydrogen bonded ferroelectric mesogens formed between alkyl and alkyloxy benzoic acids with carbamyl glutamic acid. <i>Liquid Crystals</i> , 2018 , 45, 431-449	2.3	12
99	Calorimetric investigations of hydrogen-bonded liquid crystal binary mixtures. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 134, 1799-1822	4.1	2
98	Optical, thermal and electrical investigations in two homologous series of hydrogen bonded ferroelectric liquid crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2018 , 675, 1-18	0.5	2
97	Realization of memory effect in smectic X* phase. <i>Journal of Molecular Structure</i> , 2018 , 1168, 302-308	3.4	3
96	Evaluation of Versatile CdS Nanomaterials Based Liquid Crystals Switchable Device. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 2401-412	1.3	14
95	Chemical and optical characterization of linear hydrogen bonded thermotropic liquid crystal dimers. <i>Optik</i> , 2017 , 143, 42-58	2.5	9
94	Smart in-plane switching of nanowires embedded liquid crystal matrix. <i>Organic Electronics</i> , 2017 , 42, 256-268	3.5	16
93	Analysis of optical and thermal properties of double hydrogen bonded liquid crystal binary mixtures. <i>Molecular Crystals and Liquid Crystals</i> , 2017 , 652, 111-125	0.5	2
92	Design, synthesis and characterization of hydrogen bonded liquid crystals formed between methyl malonic acid and p-n-alkyloxy/alkyl benzoic acids. <i>Molecular Crystals and Liquid Crystals</i> , 2017 , 652, 23-40	0.5	7
91	Influence of MWCNT on the properties of hydrogen bonded liquid crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2017 , 652, 172-184	0.5	2
90	Design, synthesis and characterization of hydrogen bonded thermotropic liquid crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2017 , 648, 35-52	0.5	12
89	Thermal analysis of hydrogen-bonded ferroelectric liquid crystals. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017 , 128, 369-386	4.1	11
88	Analysis of hydrogen-bonded liquid crystals formed between nitro-substituted benzoic acid and p-n-alkyloxy benzoic acids. <i>Molecular Crystals and Liquid Crystals</i> , 2016 , 631, 47-63	0.5	7
87	Comparison of mesomorphic properties exhibited by linear hydrogen bonded thermotropic liquid crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2016 , 631, 74-91	0.5	10
86	Switchable, self-assembled CdS nanomaterials embedded in liquid crystal cell for high performance static memory device. <i>Materials Letters</i> , 2016 , 169, 37-41	3.3	17
85	A study on polymorphism of hydrogen-bonded thermotropic liquid crystals. <i>Phase Transitions</i> , 2016 , 89, 928-943	1.3	7
84	Functionalized Graphene Oxide Dispersed Hydrogen Bonded Liquid Crystals Efficient Electro-Optical Switching. <i>Journal of Display Technology</i> , 2016 , 12, 281-287		6

83	Investigations of CdS Nanostructures Encapsulated in Soft Self-Assembled Thermotropic Liquid Crystals Matrix. <i>Science of Advanced Materials</i> , 2016 , 8, 1331-1344	2.3	3
82	Investigations on Hydrogen-Bonded Liquid Crystals Formed by P-N Alkyl Benzoic Acids and Dodecane Dicarboxylic Acids. <i>Molecular Crystals and Liquid Crystals</i> , 2016 , 626, 193-206	0.5	8
81	Linear Double Hydrogen-bonded Thermotropic Liquid Crystals Formed Between Oxaloacetic Acid and p-n- Alkyloxy Benzoic Acids. <i>Molecular Crystals and Liquid Crystals</i> , 2016 , 626, 169-182	0.5	10
80	Dynamic application of novel electro-optic switchable device modulation by graphene oxide dispersed liquid crystal cell assembling CdS nanowires. <i>Organic Electronics</i> , 2016 , 39, 25-37	3.5	13
79	Influence of spacer and flexible chain on polymorphism in complementary hydrogen bonded liquid crystal dimers, SA:nOBAs. <i>Journal of Molecular Liquids</i> , 2015 , 207, 294-308	6	17
78	Study and characterization of the smectic X* phase in binary mixtures of thermotropic double hydrogen bonded ferroelectric liquid crystals. <i>Phase Transitions</i> , 2015 , 88, 907-928	1.3	18
77	Design, synthesis and application of hydrogen bonded smectic liquid crystal matrix encapsulated ZnO nanopikes. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 11907-11917	7.1	36
76	Influence of ZnO nanostructures in liquid crystal interfaces for bistable switching applications. <i>Applied Surface Science</i> , 2015 , 357, 1499-1510	6.7	21
75	Binary Mixtures of Hydrogen-Bonded Ferroelectric Liquid Crystals: Thermal Span Enhancement in Smectic X* Phase. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2015 , 70, 757-774	1.4	14
74	Thermal Analysis, Calorimetric and Electrical Polarization Studies in Smectic X* Phase of Hydrogen-Bonded Ferroelectric Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2015 , 606, 12-35	0.5	9
73	Design, Synthesis and Analysis of Chlorohydroquinone Derivatives Liquid Crystalline Complexes. <i>Molecular Crystals and Liquid Crystals</i> , 2014 , 593, 78-92	0.5	2
72	Birefringence Study in Hydrogen Bonded Complexes. <i>Molecular Crystals and Liquid Crystals</i> , 2014 , 592, 163-180	0.5	3
71	Thermal, Optical, and Dielectric Analysis of Hydrogen-Bonded Liquid Crystals Formed by Adipic and Alkyloxy Benzoic Acids. <i>Molecular Crystals and Liquid Crystals</i> , 2014 , 592, 63-81	0.5	13
70	Spontaneous polarization analysis in hydrogen bonded ferroelectric liquid crystals. <i>Phase Transitions</i> , 2014 , 87, 491-508	1.3	10
69	Experimental and theoretical investigation of p-n alkoxy benzoic acid based liquid crystals - a DFT approach. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 123, 511-23	4.4	14
68	Thermal analysis of hydrogen bonded benzoic acid liquid crystals. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013 , 113, 811-820	4.1	22
67	Characterization of a new smectic ordering in supramolecular hydrogen bonded liquid crystals by X-ray, optical and dielectric studies. <i>Journal of Molecular Liquids</i> , 2013 , 182, 79-90	6	41
66	Double Hydrogen Bonded Liquid Crystals Formed by Glutaric Acid. <i>Molecular Crystals and Liquid Crystals</i> , 2013 , 574, 19-32	0.5	14

65	Synthesis and Characterization of Supramolecular Hydrogen-Bonded Liquid Crystals Comprising of p-n-Alkyloxy Benzoic Acids with Suberic Acid and Pimelic Acid. <i>Molecular Crystals and Liquid Crystals</i> , 2013 , 571, 40-56	0.5	15
64	Systematic studies on eight homologous series of supramolecular hydrogen bonded liquid crystals. <i>Phase Transitions</i> , 2013 , 86, 339-360	1.3	24
63	Thermal Analysis of Supramolecular Hydrogen-Bonded Liquid Crystals Formed by Nonyloxy and Alkyl Benzoic Acids. <i>Molecular Crystals and Liquid Crystals</i> , 2013 , 574, 96-113	0.5	11
62	Characterization of Hydrogen Bonded Liquid Crystals Formed by Suberic Acid and Alkyl Benzoic Acids. <i>Molecular Crystals and Liquid Crystals</i> , 2013 , 587, 60-79	0.5	23
61	Liquid Crystal Research: Current Trends and Future Perspectives. <i>Advances in Condensed Matter Physics</i> , 2013 , 2013, 1-2	1	2
60	Design and characterization of hydrogen bonded ferroelectric liquid crystals: A study of light modulation in nematic and smectic orderings. <i>Optik</i> , 2012 , 123, 1044-1050	2.5	13
59	Design, synthesis and characterization of a linear hydrogen bonded homologous series. <i>Physica B: Condensed Matter</i> , 2012 , 407, 859-867	2.8	31
58	Study of optical shuttering action in supramolecular hydrogen bonded nematogens. <i>Phase Transitions</i> , 2012 , 85, 973-994	1.3	20
57	Thermal and Dielectric Investigations on Supramolecular Hydrogen Bonded Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2012 , 569, 72-91	0.5	19
56	Thermal and optical characterization of a novel series of supramolecular liquid crystals. <i>Physica B: Condensed Matter</i> , 2012 , 407, 3709-3716	2.8	10
55	Dielectric and Optical Studies in Smectic C of A Novel Hydrogen Bonded Liquid Crystal Homologous Series. <i>Molecular Crystals and Liquid Crystals</i> , 2012 , 562, 177-190	0.5	4
54	Design, synthesis and characterization of a linear hydrogen bonded homologous series exhibiting reentrant smectic C ordering. <i>Journal of Physics and Chemistry of Solids</i> , 2012 , 73, 1203-1212	3.9	15
53	Optical modulation in nematic phase of halogen substituted hydrogen bonded liquid crystals. <i>Phase Transitions</i> , 2012 , 85, 113-130	1.3	11
52	Optical Shuttering and Filtering Action in Nematogens of Supra Molecular Hydrogen-Bonded Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2012 , 557, 190-205	0.5	9
51	Optical shuttering action in nematic phase of SMHBLC: observation of a ribbon-like texture. <i>Phase Transitions</i> , 2012 , 85, 592-607	1.3	9
50	Study of Field Induced Transition (FIT) and Analysis of Crystallization Kinetics in the Nematic Phase of an Interhydrogen Bonded Nanoliquid Crystals. <i>Journal of Dispersion Science and Technology</i> , 2012 , 33, 623-630	1.5	1
49	Thermal and Optical Properties of Self-Assembly Systems: Two Pairs of Distinct Structural Isomers. <i>Molecular Crystals and Liquid Crystals</i> , 2012 , 557, 144-160	0.5	12
48	Comparison of supramolecular hydrogen bonded liquid crystals. <i>Phase Transitions</i> , 2012 , 85, 149-158	1.3	12

47	Electrical and Optical Studies of Hydrogen Bonded Ferroelectric Liquid Crystals Dispersed with MWCNT. <i>Journal of Dispersion Science and Technology</i> , 2012 , 33, 111-116	1.5	4
46	Influence of Terminal Groups on the Mesogenic Properties of Self-Assembly Systems. <i>Molecular Crystals and Liquid Crystals</i> , 2011 , 548, 142-154	0.5	16
45	Ambient Smectic Ordering in Hydrogen-Bonded Liquid Crystal Homologous Series. <i>Molecular Crystals and Liquid Crystals</i> , 2011 , 537, 22-35	0.5	5
44	Study of Optical and Electrical Properties in Nematic Phase of Self Assembly Systems. <i>Molecular Crystals and Liquid Crystals</i> , 2011 , 548, 73-85	0.5	6
43	Study and Characterization of Double Hydrogen-Bonded Liquid Crystals Comprising p-n Alkoxy Benzoic Acids with Azelaic and Dodecane Dicarboxylic Acids. <i>Molecular Crystals and Liquid Crystals</i> , 2011 , 537, 36-50	0.5	13
42	Thermally controlled optical shutter in an inter-molecular hydrogen bonded liquid crystal. <i>Physica B: Condensed Matter</i> , 2011 , 406, 4139-4144	2.8	12
41	Study of thermal and electrical properties exhibited by two ferroelectric self assembly systems. <i>Journal of Molecular Structure</i> , 2011 , 991, 60-67	3.4	14
40	Dielectric Relaxations in Nematic Phase of Hydrogen Bonded Liquid Crystal Homologous Series. <i>Ferroelectrics</i> , 2011 , 413, 156-169	0.6	6
39	Thermal and dielectric studies of self-assembly systems formed by hydroquinone and alkyloxy benzoic acids. <i>Physica B: Condensed Matter</i> , 2011 , 406, 1106-1113	2.8	39
38	Characterization of a hydrogen bonded liquid crystal homologous series: Detailed FTIR studies in various mesophases. <i>Journal of Molecular Structure</i> , 2011 , 994, 387-391	3.4	36
37	Optical, thermal and dielectric studies in linear hydrogen bonded liquid crystal homologous series. <i>Journal of Molecular Structure</i> , 2011 , 1000, 69-76	3.4	20
36	Study of Optical and Dielectrical Properties in a Homologous Series of Bent Liquid Crystals Formed by Self Assembly Systems. <i>Ferroelectrics</i> , 2011 , 425, 114-128	0.6	7
35	Double Hydrogen Bonded Liquid Crystals: A Study of Light Modulation and Field Induced Transition (FiT). <i>Molecular Crystals and Liquid Crystals</i> , 2010 , 517, 113-126	0.5	30
34	A Study of Reentrant Smectic Ordering in Hydrogen Bonded Ferroelectric Dodecyloxy Benzoic Acid and Tartaric Acid Liquid Crystal. <i>Molecular Crystals and Liquid Crystals</i> , 2010 , 517, 43-62	0.5	26
33	Design, Synthesis and Characterization of Hydrogen-Bonded Ferroelectric Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2010 , 524, 54-67	0.5	10
32	Study of Optical Shutter in Cholesteric Phase of a Double Hydrogen-Bonded Ferroelectric Liquid Crystal with Two Chiral Carbons. <i>Molecular Crystals and Liquid Crystals</i> , 2010 , 528, 163-177	0.5	9
31	Occurrence of Ambient Temperature and Reentrant Smectic Ordering in an Intermolecular Hydrogen Bonding between Alkyl Aniline and Alkoxy Benzoic Acids. <i>Molecular Crystals and Liquid Crystals</i> , 2010 , 524, 131-143	0.5	24
30	Study of Self Assembly Systems Formed by Malic Acid and Alkyloxy Benzoic Acids. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2010 , 65, 1156-1164	1.4	11

29	A study of field induced transitions (FiT) in the nematic phase of an inter hydrogen bonded ferroelectric liquid crystal. <i>Solid State Sciences</i> , 2010 , 12, 482-489	3.4	29
28	Dispersion of multi walled carbon nanotubes in a hydrogen bonded liquid crystal. <i>Physica B: Condensed Matter</i> , 2010 , 405, 4418-4423	2.8	18
27	Inter hydrogen bonded complexes of hexadecylaniline and alkoxy benzoic acids: a study of crystallization kinetics. <i>Brazilian Journal of Physics</i> , 2009 , 39, 600-605	1.2	26
26	Crystallization kinetics study on tilted ordering in N-(p-n-alkoxybenzylidene)-p-n-alkylanilines (nO.m compounds) by thermal and electrical techniques. Part I. <i>Physica B: Condensed Matter</i> , 2009 , 404, 1310-1315	2.8	2
25	Double hydrogen bonded ferroelectric liquid crystals: A study of field induced transition (FiT). <i>Solid State Communications</i> , 2009 , 149, 2090-2097	1.6	56
24	Synthesis and Characterization of Double Hydrogen Bonded Ferroelectric Liquid Crystals Exhibiting Reentrant Smectic Ordering. <i>Ferroelectrics</i> , 2009 , 392, 81-97	0.6	37
23	Study of Intermolecular Hydrogen Bonding in p-n-Alkoxybenzoic Acids and Alkyl Aniline Homologous Series [Part I. <i>Molecular Crystals and Liquid Crystals</i> , 2009 , 515, 39-48	0.5	30
22	Crystallization Kinetics Study in Orthogonal Liquid Crystalline Phases Formed by Schiff's Base nO.m Compounds by Calorimetric and Dielectric Techniques [Part 2. <i>Molecular Crystals and Liquid Crystals</i> , 2009 , 515, 49-63	0.5	5
21	Experimental evidence of an optical shutter in cholesteric phase of a double hydrogen bonded liquid crystal. <i>Brazilian Journal of Physics</i> , 2009 , 39,	1.2	25
20	Crystallization Kinetics Study on Orthogonal Ordering in N-(p-n-Alkoxybenzylidene)-p-n-Alkylanilines (nO.m Compounds) by Thermal and Electrical Techniques. Part I. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2009 , 64, 354-360	1.4	
19	Crystallization Kinetics Study on Tilted Ordering in N-(p-n-Alkoxybenzylidene)-p-n-Alkylanilines (nO.m Compounds) by Thermal and Electrical Techniques Part II. <i>Molecular Crystals and Liquid Crystals</i> , 2008 , 493, 17-30	0.5	16
18	Experimental Evidence of an Ambient Ferroelectric Phase and a Low Frequency-Induced Transition in an Achiral Mesogen. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2008 , 63, 435-439	1.4	10
17	Thermal and Electrical Characterization of a Ferro Electric Liquid Crystal. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2008 , 39, 1192-1195	2.3	25
16	Characterisation of ferroelectric lithium ammonium sulphate binary systems. <i>Materials Research Bulletin</i> , 2005 , 40, 850-860	5.1	2
15	THERMAL, FERROELECTRIC AND DIELECTRIC STUDIES ON TWO DISTINCT STRUCTURAL ISOMERS: A FIELD INDUCED TRANSITION IN PSEUDO-NEMATIC PHASE. <i>Molecular Crystals and Liquid Crystals</i> , 2001 , 366, 431-455		9
14	Design and Synthesis of Linear and Bow Shaped Ferroelectric Liquid Crystal Isomers Derived From L-Tyrosine. <i>Molecular Crystals and Liquid Crystals</i> , 2000 , 350, 141-149		5
13	Crystallization kinetics study on N-(p-n-alkoxybenzylidene)-p-n-alkylanilines (nO.m compounds). <i>Liquid Crystals</i> , 2000 , 27, 727-735	2.3	16
12	Evidence of re-entrant ferroelectric ordering in an achiral AFLC: a detailed study by spontaneous polarization. <i>Liquid Crystals</i> , 2000 , 27, 1533-1537	2.3	20

11	Field induced intra-smectic C*A transition in a novel AFLC compound. <i>Ferroelectrics</i> , 1999 , 227, 105-121	0.6	22
10	Design and fabrication of an automated technique: measurement of spontaneous polarization in two new schiff base ferroelectric liquid crystals. <i>Materials Research Bulletin</i> , 1999 , 34, 2167-2175	5.1	36
9	Spontaneous polarization, tilt angle and dielectric measurements on a ferroelectric liquid crystal. <i>Liquid Crystals</i> , 1999 , 26, 1609-1613	2.3	10
8	Synthesis of Novel Ferroelectric Liquid Crystals Derived from L-tyrosine. <i>Molecular Crystals and Liquid Crystals</i> , 1998 , 325, 127-135		19
7	Dilatometric and dielectric studies on phase transition of potassium dihydrogen phosphate-boric acid binary system. <i>Bulletin of Materials Science</i> , 1997 , 20, 637-642	1.7	1
6	Thermomechanical studies on phase transition of KNO ₂ -H ₃ BO ₃ binary. <i>Bulletin of Materials Science</i> , 1996 , 19, 657-660	1.7	
5	The measurement of electrostriction coefficients of some XH ₂ PO ₄ /H ₃ BO ₃ binaries by interferometric technique. <i>Bulletin of Materials Science</i> , 1995 , 18, 599-602	1.7	5
4	X-ray data for the substitutional solid solution of the binary system ammonium dihydrogen phosphate with boric acid. <i>Bulletin of Materials Science</i> , 1994 , 17, 205-207	1.7	3
3	Crystal structure studies of mixed system of NaH ₂ PO ₄ and KH ₂ PO ₄ with H ₃ BO ₃ . <i>Bulletin of Materials Science</i> , 1992 , 15, 385-387	1.7	4
2	Spontaneous polarization, tilt angle and dielectric measurements on a ferroelectric liquid crystal		14
1	Calorimetric study of smectic x* and validation of dynamic memory in ferroelectric binary complexes. <i>Journal of Thermal Analysis and Calorimetry</i> , 1	4.1	