

V N Vijayakumar

List of Publications by Year in descending order

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63
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citing authors

#	ARTICLE	IF	CITATIONS
1	Double hydrogen bonded ferroelectric liquid crystals: A study of field induced transition (FiT). Solid State Communications, 2009, 149, 2090-2097.	0.9	57
2	Thermal and dielectric studies of self-assembly systems formed by hydroquinone and alkyloxy benzoic acids. Physica B: Condensed Matter, 2011, 406, 1106-1113.	1.3	43
3	Theoretical (DFT) and experimental studies on multiple hydrogen bonded liquid crystals comprising between aliphatic and aromatic acids. Journal of Molecular Liquids, 2017, 243, 14-21.	2.3	40
4	Synthesis and Characterization of Double Hydrogen Bonded Ferroelectric Liquid Crystals Exhibiting Reentrant Smectic Ordering. Ferroelectrics, 2009, 392, 81-97.	0.3	39
5	Characterization of a hydrogen bonded liquid crystal homologous series: Detailed FTIR studies in various mesophases. Journal of Molecular Structure, 2011, 994, 387-391.	1.8	38
6	Study of Intermolecular Hydrogen Bonding in p-n-Alkoxybenzoic Acids and Alkyl Aniline Homologous Series – Part I. Molecular Crystals and Liquid Crystals, 2009, 515, 39-48.	0.4	34
7	Double Hydrogen Bonded Liquid Crystals: A Study of Light Modulation and Field Induced Transition (FiT). Molecular Crystals and Liquid Crystals, 2010, 517, 113-126.	0.4	34
8	A study of field induced transitions (FiT) in the nematic phase of an inter hydrogen bonded ferroelectric liquid crystal. Solid State Sciences, 2010, 12, 482-489.	1.5	29
9	Experimental evidence of an optical shutter in cholesteric phase of a double hydrogen bonded liquid crystal. Brazilian Journal of Physics, 2009, 39, .	0.7	29
10	Inter hydrogen bonded complexes of hexadecylaniline and alkoxy benzoic acids: a study of crystallization kinetics. Brazilian Journal of Physics, 2009, 39, 600-605.	0.7	28
11	A Study of Reentrant Smectic Ordering in Hydrogen Bonded Ferroelectric Dodecyloxy Benzoic Acid and Tartaric Acid Liquid Crystal. Molecular Crystals and Liquid Crystals, 2010, 517, 43-62.	0.4	26
12	Optical, thermal and dielectric studies in linear hydrogen bonded liquid crystal homologous series. Journal of Molecular Structure, 2011, 1000, 69-76.	1.8	22
13	Dispersion of multi walled carbon nanotubes in a hydrogen bonded liquid crystal. Physica B: Condensed Matter, 2010, 405, 4418-4423.	1.3	18
14	Influence of Terminal Groups on the Mesogenic Properties of Self-Assembly Systems. Molecular Crystals and Liquid Crystals, 2011, 548, 142-154.	0.4	17
15	Experimental and computational studies on induced thermochromic effect and re-entrant smectic phase in linear double hydrogen-bonded binary liquid crystal mixtures. Phase Transitions, 2019, 92, 229-248.	0.6	16
16	Investigation on Thermal and Optical Properties of Hydrogen-Bonded Binary Liquid Crystals. Brazilian Journal of Physics, 2016, 46, 649-657.	0.7	15
17	Optical, Thermal Studies on Binary and Ternary Hydrogen-Bonded Liquid Crystal Complexes. Brazilian Journal of Physics, 2016, 46, 273-281.	0.7	15
18	Study and Characterization of Double Hydrogen-Bonded Liquid Crystals Comprising p-n Alkoxy Benzoic Acids with Azelaic and Dodecane Dicarboxylic Acids. Molecular Crystals and Liquid Crystals, 2011, 537, 36-50.	0.4	14

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19	Thermally controlled optical shutter in an inter-molecular hydrogen bonded liquid crystal. <i>Physica B: Condensed Matter</i> , 2011, 406, 4139-4144.	1.3	14
20	Study of thermal and electrical properties exhibited by two ferroelectric self assembly systems. <i>Journal of Molecular Structure</i> , 2011, 991, 60-67.	1.8	14
21	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.	1.4	14
22	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.	0.4	13
23	Optical modulation in nematic phase of halogen substituted hydrogen bonded liquid crystals. <i>Phase Transitions</i> , 2012, 85, 113-130.	0.6	13
24	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.	0.4	12
25	Comparison of supramolecular hydrogen bonded liquid crystals. <i>Phase Transitions</i> , 2012, 85, 149-158.	0.6	12
26	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.	0.7	11
27	Design, Synthesis and Characterization of Hydrogen-Bonded Ferroelectric Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2010, 524, 54-67.	0.4	11
28	Strength characteristics of microbial cement mortars treated in different calcium sources. <i>Advances in Cement Research</i> , 2015, 27, 289-296.	0.7	10
29	Design, Synthesis and Characterization of Hydrogen Bonded Binary Liquid Crystal Complex from 4-Methoxycinnamic Acid and 4-Hexyloxybenzoic Acid (4MCA:6OBA). <i>Zeitschrift Fur Physikalische Chemie</i> , 2017, 231, 1875-1890.	1.4	10
30	Structural and thermo-optic studies on linear double hydrogen bonded ferroelectric liquid crystal homologous series. <i>Molecular Crystals and Liquid Crystals</i> , 2016, 641, 10-24.	0.4	9
31	Observation of induced new smectic phase in supramolecular hydrogen bonded liquid crystals between mesogenic and non-mesogenic aliphatic compounds. <i>Ferroelectrics</i> , 2017, 510, 103-120.	0.3	9
32	Observation of paramorphic phenomenon and non-tilted orthogonal smectic phases in hydrogen bonded ferroelectric liquid crystals for photonic applications. <i>Physica B: Condensed Matter</i> , 2018, 539, 78-87.	1.3	9
33	Experimental and computational (DFT) studies on induced orthogonal smectic A [*] phase in hydrogen-bonded ferroelectric liquid crystals. <i>International Journal of Modern Physics B</i> , 2018, 32, 1850223.	1.0	9
34	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.	0.3	8
35	Thermal and optical studies on induced smectic phases of inter molecular hydrogen bonded liquid crystals between decyloxy benzoic acid and citric acid. <i>Molecular Crystals and Liquid Crystals</i> , 2017, 648, 148-161.	0.4	8
36	Dielectric Relaxations in Nematic Phase of Hydrogen Bonded Liquid Crystal Homologous Series. <i>Ferroelectrics</i> , 2011, 413, 156-169.	0.3	7

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37	Study of Optical and Electrical Properties in Nematic Phase of Self Assembly Systems. <i>Molecular Crystals and Liquid Crystals</i> , 2011, 548, 73-85.	0.4	7
38	Enrichment of compressive strength in microbial cement mortar. <i>Advances in Cement Research</i> , 2014, 26, 353-360.	0.7	7
39	Investigation on Induced Non-Tilted Smectic A* and Thermochromic Effect in Tilted Smectic C* Phase of Linear Double Hydrogen Bonded Ferroelectric Liquid Crystals. <i>Journal of the Korean Physical Society</i> , 2019, 74, 368-373.	0.3	7
40	Ambient Smectic Ordering in Hydrogen-Bonded Liquid Crystal Homologous Series. <i>Molecular Crystals and Liquid Crystals</i> , 2011, 537, 22-35.	0.4	5
41	Induced Smectic X Phase Through Intermolecular Hydrogen-Bonded Liquid Crystals Formed Between Citric Acid and p-n-(Octyloxy)Benzoic Acid. <i>Brazilian Journal of Physics</i> , 2017, 47, 382-392.	0.7	5
42	Experimental and DFT Studies on Thermochromism Induced Binary HBLC Mixture. <i>Brazilian Journal of Physics</i> , 2020, 50, 39-51.	0.7	5
43	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.	1.3	4
44	Experimental investigation on the effect of mesogenic ratio in hydrogen-bonded liquid crystal complexes. <i>Journal of Dispersion Science and Technology</i> , 2017, 38, 1811-1816.	1.3	4
45	Detailed analysis of induced smectic phases and paramorphic effect of double hydrogen bonded ferroelectric liquid crystals. <i>Journal of Molecular Liquids</i> , 2020, 318, 114076.	2.3	4
46	Discotic Nematic-Isotropic Phase Transition Properties for a Disc-Like Mesogen. <i>Molecular Crystals and Liquid Crystals</i> , 2011, 537, 85-92.	0.4	3
47	Phase Behavior Studies on ZnS Nanoparticles Doped Liquid Crystal Mixture. <i>Zeitschrift Fur Physikalische Chemie</i> , 2016, 230, 1551-1559.	1.4	3
48	Influence of Hydrogen Bond on Thermal and Phase Transitions of Binary Complex Liquid Crystals. <i>Russian Journal of Physical Chemistry A</i> , 2017, 91, 2578-2584.	0.1	3
49	Design and synthesis of hydrogen bonded binary mixture liquid crystals. <i>Ferroelectrics</i> , 2016, 502, 119-129.	0.3	2
50	Study of variation in thermal width of nematic and induced smectic ordering phase of citric acid (CA) and 4-heptyloxybenzoic acid (7OBA) hydrogen bonded liquid crystal complexes. <i>International Journal of Modern Physics B</i> , 2018, 32, 1850013.	1.0	2
51	Thermal and Optical Characterization of Multiple Hydrogen Bonded Liquid Crystals and Its Application in Display Devices. <i>Russian Journal of Physical Chemistry A</i> , 2019, 93, 2414-2423.	0.1	2
52	Optical modulation studies of multiwall carbon nanotube dispersed in hydrogen bonded ferroelectric liquid crystal mixture for electro-optic devices. <i>Ferroelectrics</i> , 2020, 558, 187-198.	0.3	2
53	Optical and thermal characterization of thermotropic hydrogen bonded liquid crystal mixture. <i>Materials Today: Proceedings</i> , 2021, 47, 1731-1735.	0.9	2
54	Experimental and computational (DFT) methods: exploration of thermochromism in homophthalic acid and 4-N-alkyloxybenzoic acid comprised hydrogen bond liquid crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2022, 740, 85-103.	0.4	2

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55	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.	1.3	1
56	Theoretical and experimental studies on optically tunable hydrogen bonded liquid crystal complex derived from mesogenic and non-mesogenic aromatic compound. <i>Molecular Crystals and Liquid Crystals</i> , 2018, 668, 59-77.	0.4	1
57	Exploration of Induced Blue Phases and Orthogonal Smectic Batonets in Hydrogen-Bonded Ferroelectric Nanoliquid Crystalline Complexes for Optoelectronic Devices. <i>Brazilian Journal of Physics</i> , 2018, 48, 548-559.	0.7	1
58	Thermal and optical characterization of multiple hydrogen bonded liquid crystals derived from mesogenic and non-mesogenic compounds: experimental and theoretical (DFT) studies. <i>Canadian Journal of Physics</i> , 2020, 98, 413-424.	0.4	1
59	Theoretical studies (DFT) on hydrogen bonded liquid crystal derived from 4-amino and 4-dodecyloxy benzoic acids. <i>Materials Today: Proceedings</i> , 2021, 47, 1724-1730.	0.9	1
60	Observation of Induced Luminescence and Thermochromism in Achiral Hydrogen Bonded Liquid Crystal Complexes. <i>Zeitschrift Fur Physikalische Chemie</i> , 2020, 234, 1709-1733.	1.4	1
61	Nanoliquid Crystals: A Study of Permeability and Optical Measurements in Nematic Phase. <i>Macromolecular Symposia</i> , 2016, 361, 112-116.	0.4	0
62	Optical, Thermal, and Detailed Statistical Parameter Study on Nanoparticles Dispersed into Liquid Crystalline Composites Using MATLAB Program. <i>Brazilian Journal of Physics</i> , 2019, 49, 508-516.	0.7	0
63	Experimental Observation of Induced Thermoluminescence Nematic Liquid Crystals for Optoelectronic Applications. <i>Journal of the Korean Physical Society</i> , 2020, 77, 1172-1177.	0.3	0