

Sharmistha Ghosh

List of Publications by Year in descending order

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44
papers

785
citations

623734

14
h-index

552781

26
g-index

44
all docs

44
docs citations

44
times ranked

878
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiferroic behavior of lanthanum orthoferrite (LaFeO ₃). <i>Materials Letters</i> , 2010, 64, 415-418.	2.6	229
2	Ferroelectric-like switching in the nematic phase of four-ring bent-core liquid crystals. <i>Journal of Materials Chemistry C</i> , 2014, 2, 425-431.	5.5	56
3	Switching of ferroelectric liquid crystal doped with cetyltrimethylammonium bromide-assisted CdS nanostructures. <i>Nanotechnology</i> , 2013, 24, 125702.	2.6	35
4	Imidazolium-based ionic liquids with different fatty acid anions: phase behavior, electronic structure and ionic conductivity investigation. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 16255.	2.8	35
5	Bias dependent dielectric relaxation dynamics of electrically tuned large-scale aligned zinc oxide nanorods in nematic liquid crystal host. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	22
6	Effect of multiferroic BiFeO ₃ nanoparticles on electro-optical and dielectric properties of a partially fluorinated orthoconic antiferroelectric liquid crystal mixture. <i>Europhysics Letters</i> , 2011, 96, 47003.	2.0	22
7	Impact of terminal polar substitution on elastic, electro-optic and dielectric properties of four-ring bent-core nematic liquid crystals. <i>RSC Advances</i> , 2018, 8, 11509-11516.	3.6	22
8	Carbon nanotube enhanced diffraction efficiency in dye-doped liquid crystal. <i>Journal of Materials Science: Materials in Electronics</i> , 2005, 16, 753-759.	2.2	20
9	Optical properties of permanent gratings in liquid crystal doped with dye and carbon nanotube. <i>Journal of Materials Science: Materials in Electronics</i> , 2008, 19, 662-668.	2.2	18
10	Dielectric relaxation spectroscopy and electro-optical studies of a new, partially fluorinated orthoconic antiferroelectric liquid crystal material exhibiting V-shaped switching. <i>Liquid Crystals</i> , 2010, 37, 369-375.	2.2	18
11	Novel achiral four-ring bent-shaped nematic liquid crystals with trifluoromethyl and methyl substituents in the central molecular core: an unusually large Kerr constant in blue phase III of nematic-chiral dopant mixture. <i>Journal of Materials Chemistry C</i> , 2017, 5, 6729-6737.	5.5	17
12	Observation of disordered mesomorphism in three-ring-based highly polar bent-core molecules: design, synthesis and characterisation. <i>Liquid Crystals</i> , 2017, 44, 2247-2258.	2.2	16
13	Polar Switching and Cybotactic Nematic Ordering in 1,3,4-Thiadiazole-Based Short-Core Hockey Stick-Shaped Fluorescent Liquid Crystals. <i>ACS Omega</i> , 2019, 4, 7711-7722.	3.5	16
14	Electro-optical and dielectric properties of a high tilt antiferroelectric liquid crystal mixture (W-193B). <i>Journal Physics D: Applied Physics</i> , 2009, 42, 225504.	2.8	15
15	Electro-optic and dielectric investigations of a perfluorinated compound showing orthoconic antiferroelectric liquid crystal. <i>Journal of Molecular Liquids</i> , 2012, 175, 91-96.	4.9	14
16	Elastic constants, viscosity and dielectric properties of bent-core nematic liquid crystals doped with single-walled carbon nanotubes. <i>Liquid Crystals</i> , 2017, 44, 784-797.	2.2	14
17	Observation of polar order and thermochromic behaviour in a chiral bent-core system exhibiting exotic mesophases due to superstructural frustration. <i>Chemical Communications</i> , 2018, 54, 3452-3455.	4.1	14
18	Structural organization and molecular self-assembly of a new class of polar and non-polar four-ring based bent-core molecules. <i>Journal of Molecular Liquids</i> , 2019, 295, 111687.	4.9	14

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19	Self-enhanced controllable growth of ZnO micro-flowers from nanopikes and its transformation to nanoparticles by using compositional variation: Essential dielectric switching applications. Journal of Molecular Structure, 2012, 1027, 36-43.	3.6	13
20	Temperature variation dielectric behavior of TiO ₂ nanocabbages and doped W-182(AFLC). Journal of Luminescence, 2013, 136, 278-284.	3.1	13
21	Existence of polar switching in the nematic and orthogonal smectic phases in novel four-ring bent-core compounds. Journal of Applied Physics, 2016, 120, .	2.5	13
22	Amide linkage in novel three-ring bent-core molecular assemblies: polar mesophases and importance of H-bonding. Liquid Crystals, 2018, 45, 1549-1566.	2.2	13
23	Sign-inversion of elastic anisotropy in a bent-core nematic liquid crystal doped with carbon nanodots. Journal of Molecular Liquids, 2017, 225, 328-332.	4.9	12
24	Effects of conducting polymer poly(3, 4-ethylenedioxythiophene) nanotubes on the electro-optical and dielectric properties of a nematic liquid crystal 4-n-pentyl-4'-cyanobiphenyl host. Applied Physics Letters, 2010, 96, 073101.	3.3	11
25	Effect of conducting polymer poly (3,4-ethylenedioxythiophene) (PEDOT) nanotubes on electro-optical and dielectric properties of a ferroelectric liquid crystal. European Physical Journal E, 2011, 34, 35.	1.6	11
26	Hybrid carbon nanotube and dye-doped liquid crystal material for holographic imaging. Journal of Materials Science: Materials in Electronics, 2010, 21, 854-859.	2.2	10
27	Fluorescent unsymmetrical four-ring bent-core mesogens: 2D modulated phases. CrystEngComm, 2013, 15, 10510.	2.6	10
28	Elastic and dielectric properties of ferroelectric nanoparticles/bent-core nematic liquid crystal blend. European Physical Journal E, 2017, 40, 75.	1.6	10
29	SERS active substrates of gold nanoparticles embedded in the pool of 5-CB liquid crystal molecules organized in Langmuir-Reverse Schaefer films: A facile fabrication route to make the topological defects useful. Applied Surface Science, 2019, 484, 1263-1273.	6.1	9
30	Dielectric and ϵ'' characteristics of high luminous CdS nanostructures with confined geometrical growth. Journal of Molecular Structure, 2013, 1041, 16-22.	3.6	8
31	Chiral Bent-Shaped Molecules Exhibiting Unusually Wide Range of Blue Liquid-Crystalline Phases and Multistimuli-Responsive Behavior. Chemistry - A European Journal, 2020, 26, 5859-5871.	3.3	8
32	Double-peak polarization current response in the unusual SmA [*] phase of a fluorinated high-tilt antiferroelectric liquid crystal. Europhysics Letters, 2010, 89, 16001.	2.0	7
33	Efficient one-step novel synthesis of ZnO nanopikes to nanoflakes doped OAFLCs (W-182) host: Optical and dielectric response. Applied Surface Science, 2013, 280, 405-417.	6.1	7
34	Bias dependent relaxation in different phases of an orthoconic antiferroelectric liquid crystal mixture (W-182). Current Applied Physics, 2010, 10, 631-635.	2.4	6
35	Nematic-cybotactic nematic phase transition in a liquid crystal: a dielectric spectroscopic study. Materials Research Express, 2019, 6, 115105.	1.6	5
36	Tuning of bipolar resistive switching and memory characteristics of cadmium sulphide nanorods embedded in PMMA matrix. Materials Research Express, 2019, 6, 115107.	1.6	4

#	ARTICLE	IF	CITATIONS
37	A Comparative Study of Poly (3,4-ethylenedioxythiophene) (PEDOT) Nanotubes Doped Nematic Liquid Crystal (NLC) System and Carbon Nanotubes (CNT) Doped NLC System for Greater Modification of Electro-Optical Properties of the Host NLC 1770-2. <i>Molecular Crystals and Liquid Crystals</i> , 2011, 545, 22/[1246]-28/[1252].	0.9	3
38	Development of nematic and orthogonal smectic phases in short-core fluorinated hockey-stick shaped liquid crystal compounds. <i>Journal of Molecular Liquids</i> , 2020, 298, 111989.	4.9	3
39	Antiferroelectric Liquid Crystal/carbon Nano Tube Duo For Achieving Modified Electro-optical Properties; Aiming At Display Applications. <i>Advanced Materials Letters</i> , 2016, 7, 60-64.	0.6	3
40	Electric-Field-Induced Formation of Multiwalled Carbon Nanotube Conductive Pathways in Positive Dielectric Anisotropic Nematic Liquid Crystal Host. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 121701.	1.5	3
41	Blue Phase III: Topological Fluid of Skyrmions. <i>Physical Review X</i> , 2022, 12, .	8.9	3
42	Self-assembled PEDOT nanoropes: Materials for improving electro optical properties of liquid crystal. <i>Molecular Crystals and Liquid Crystals</i> , 2018, 664, 101-108.	0.9	2
43	Electric-Field-Induced Formation of Multiwalled Carbon Nanotube Conductive Pathways in Positive Dielectric Anisotropic Nematic Liquid Crystal Host. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 121701.	1.5	1
44	Exploiting microstructured optical fiber platform for generating temporal parabolic pulse. , 2013, , .		0