

Sudarshan Kundu

List of Publications by Year in descending order

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papers

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47
all docs

47
docs citations

47
times ranked

648
citing authors

#	ARTICLE	IF	CITATIONS
1	Topographically induced homeotropic alignment of liquid crystals on self-assembled opal crystals. <i>Optics Express</i> , 2018, 26, 8385.	1.7	21
2	In situ creation of reactive polymer nanoparticles and resulting polymer layers formed at the interfaces of liquid crystals (Conference Presentation). , 2017, , .		0
3	Reduced graphene oxide (RGO) enriched polymer network for highly-enhanced electro-optic performance of a liquid crystalline blue phase. <i>RSC Advances</i> , 2017, 7, 16650-16654.	1.7	18
4	Achieving a robust homogenously aligned liquid crystal layer with reactive mesogen for in-plane switching liquid crystal displays. <i>Liquid Crystals</i> , 2017, 44, 1194-1200.	0.9	6
5	Maximizing electro-optic performances in the fringe-field switching liquid crystal mode with negative dielectric anisotropic liquid crystal. <i>Journal of the Society for Information Display</i> , 2015, 23, 553-559.	0.8	4
6	Irreversible phase and anchoring transitions of chiral azodye-doped nematic liquid crystal triggered by photostimulation. <i>Journal of Information Display</i> , 2015, 16, 65-70.	2.1	1
7	Super-fast switching of twisted nematic liquid crystals with a single-wall-carbon-nanotube-doped alignment layer. <i>Journal of the Korean Physical Society</i> , 2015, 66, 952-958.	0.3	18
8	Surface polymer-stabilised in-plane field driven vertical alignment liquid crystal device. <i>Liquid Crystals</i> , 2014, 41, 552-557.	0.9	19
9	In Situ Homeotropic Alignment of Nematic Liquid Crystals Based on Photoisomerization of Azo dye, Physical Adsorption of Aggregates, and Consequent Topographical Modification. <i>Advanced Materials</i> , 2013, 25, 3365-3370.	11.1	52
10	Improved Mechanical Stability of Acetoxypropyl Cellulose upon Blending with Ultranarrow PbS Nanowires in Langmuir Monolayer Matrix. <i>Langmuir</i> , 2013, 29, 15231-15239.	1.6	6
11	Enhanced contrast ratio and viewing angle of polymer-stabilized liquid crystal via refractive index matching between liquid crystal and polymer network. <i>Optics Express</i> , 2013, 21, 26914.	1.7	28
12	Photo-stimulated phase and anchoring transitions of chiral azo-dye doped nematic liquid crystals. <i>Optics Express</i> , 2013, 21, 31324.	1.7	11
13	Reduction of the Residual DC in the Photoaligned Twisted Nematic Liquid Crystal Display Using Polymerized Reactive Mesogen. <i>Applied Physics Express</i> , 2012, 5, 081701.	1.1	6
14	Effect of cadmium sulfide nanorod content on Freedericksz threshold voltage, splay and bend elastic constants in liquid-crystal nanocomposites. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 235303.	1.3	10
15	Cellulose-Based Liquid Crystalline Photoresponsive Films with Tunable Surface Wettability. <i>Langmuir</i> , 2011, 27, 6330-6337.	1.6	19
16	Crystallographic Phase Induced Electro-Optic Properties of Nanorod Blend Nematic Liquid Crystal. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 7729-7734.	0.9	5
17	Perspectives on the electrically induced properties of electrospun cellulose/liquid crystal devices. <i>Journal of Electrostatics</i> , 2011, 69, 623-630.	1.0	21
18	62.1: Reduction of the Threshold Voltage and Enhancement of Contrast Ratio in Liquid Crystal Devices with BaTiO ₃ Nanoparticle Embedded Surface Alignment Layers. <i>Digest of Technical Papers SID International Symposium</i> , 2010, 41, 925.	0.1	2

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19	Bias dependent relaxation in different phases of an orthoconic antiferroelectric liquid crystal mixture (W-182). <i>Current Applied Physics</i> , 2010, 10, 631-635.	1.1	6
20	Ultrathin PbS Nanorod-Nematic Liquid Crystal Blend for Enhanced Electro-optic Properties. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 2759-2766.	4.0	35
21	Deuterium NMR Study of Orientational Order in Cellulosic Network Microfibers. <i>Macromolecules</i> , 2010, 43, 5749-5755.	2.2	9
22	Improvement of Electro-Optical Characteristics of Liquid Crystal Display by Nanoparticle-Embedded Alignment Layers. <i>Molecular Crystals and Liquid Crystals</i> , 2009, 508, 1/[363]-13/[375].	0.4	15
23	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.	1.3	15
24	Influence of Network Stabilization on the Dielectric and Electrooptical Properties of Ferroelectric Liquid Crystal FELIX-M4851/100. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 061501.	0.8	3
25	Nanorod-Driven Orientational Control of Liquid Crystal for Polarization-Tailored Electro-Optic Devices. <i>Advanced Materials</i> , 2009, 21, 989-993.	11.1	55
26	Deformation of isotropic and anisotropic liquid droplets dispersed in a cellulose liquid crystalline derivative. <i>Cellulose</i> , 2009, 16, 427-434.	2.4	8
27	Dielectric and electro-optic behavior of pure ferroelectric liquid crystal material and the isomeric mixtures. <i>Current Applied Physics</i> , 2009, 9, 605-609.	1.1	11
28	Electro-optic and dielectric behavior of a FLC material having doped with a non-mesogenic polar molecules. <i>Current Applied Physics</i> , 2008, 8, 542-548.	1.1	6
29	Influence of ionic conductivity and interfacial charges on the relaxation dynamics of smectic phases of an antiferroelectric material. <i>Journal of Molecular Liquids</i> , 2008, 139, 35-42.	2.3	18
30	Electro-Optical cells using a cellulose derivative and cholesteric liquid crystals. <i>Liquid Crystals</i> , 2008, 35, 1345-1350.	0.9	8
31	Enhancement of Contrast Ratio by Using Ferroelectric Nanoparticles in the Alignment Layer of Liquid Crystal Display. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 4751.	0.8	24
32	A Highly Ordered Self-Assembly Three-Grade Porous Helical Silica Tube. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 1497-1501.	0.9	1
33	Hierarchical assembly of carbon nanotubes-liquid crystal nanocomposite. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 1735-40.	0.9	0
34	Effects of Liquid Crystal Environment on the Spectroscopic and Photophysical Properties of Well-Known Reacting Systems 2,3-Dimethylindole (DMI) and 9-Cyanoanthracene (9CNA). <i>Journal of Physical Chemistry A</i> , 2007, 111, 11480-11486.	1.1	9
35	Comparative study of the dielectric properties of an antiferroelectric liquid crystal in planar aligned cells and in microporous membrane. <i>Journal of Molecular Liquids</i> , 2007, 133, 104-110.	2.3	6
36	Preparation of Ag nanoparticles on a dye substrate. <i>International Journal of Nanomanufacturing</i> , 2006, 1, 283.	0.3	0

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37	Dielectric Properties and Electro-optic Characteristics of TN-LCDs Doped with Metal Nanoparticles Exhibiting Frequency Modulation Response Accompanying Fast Response. <i>Molecular Crystals and Liquid Crystals</i> , 2005, 433, 29-40.	0.4	4
38	Ferroelectric Liquid Crystal Cell Versus Dye Doped Ferroelectric Liquid Crystal Cells: A Comparison of Dielectric Properties. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 249-255.	0.8	18
39	Experimental characterization of hexatic smectic phases through electro-optic studies and dielectric relaxation spectroscopy. <i>Liquid Crystals</i> , 2004, 31, 119-125.	0.9	5
40	Dielectric Properties of Frequency Modulation Twisted Nematic LCDs Doped with Palladium (Pd) Nanoparticles. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 5425-5429.	0.8	34
41	Polymer-stabilized V-mode FLCs and their application to color sequential fullcolor LCDs. <i>Displays</i> , 2004, 25, 45-47.	2.0	12
42	Dielectric Properties of Frequency Modulation Twisted Nematic LCDs Doped with Silver Nanoparticles. <i>Japanese Journal of Applied Physics</i> , 2004, 43, 5430-5434.	0.8	32
43	Low voltage electrodeposition of diamond-like carbon films. <i>Materials Letters</i> , 2003, 57, 3479-3485.	1.3	42
44	Effect of UV Curable Polymer on The Dielectric & Electro-Optic Properties of Ferroelectric Liquid Crystal. <i>Ferroelectrics</i> , 2003, 282, 239-248.	0.3	17
45	Studies on the dielectric behavior of ferroelectric liquid crystal material having a TGBA phase. <i>Ferroelectrics</i> , 2000, 244, 39-47.	0.3	4
46	Spontaneous polarization and response time of polymer dispersed ferroelectric liquid crystal (PDFLC). <i>Ferroelectrics</i> , 2000, 243, 197-206.	0.3	19
47	Electro-Optic Effect and Influence of Bias Electric Field on the Goldstone Mode Dielectric Behavior in Smectic C* Phase and Cell Thickness Dependence of the Dielectric Permittivity of a Ferroelectric Liquid Crystal Mixture. <i>Molecular Crystals and Liquid Crystals</i> , 1999, 328, 161-176.	0.3	3