Sudarshan Kundu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/571293/publications.pdf

Version: 2024-02-01

47	666	516215 16	610482 24
papers	citations	h-index	g-index

47	47	47	648
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nanorodâ€Driven Orientational Control of Liquid Crystal for Polarizationâ€Tailored Electroâ€Optic Devices. Advanced Materials, 2009, 21, 989-993.	11.1	55
2	In Situ Homeotropic Alignment of Nematic Liquid Crystals Based on Photoisomerization of Azoâ€Dye, Physical Adsorption of Aggregates, and Consequent Topographical Modification. Advanced Materials, 2013, 25, 3365-3370.	11.1	52
3	Low voltage electrodeposition of diamond-like carbon films. Materials Letters, 2003, 57, 3479-3485.	1.3	42
4	Ultranarrow PbS Nanorod-Nematic Liquid Crystal Blend for Enhanced Electro-optic Properties. ACS Applied Materials & Interfaces, 2010, 2, 2759-2766.	4.0	35
5	Dielectric Properties of Frequency Modulation Twisted Nematic LCDs Doped with Palladium (Pd) Nanoparticles. Japanese Journal of Applied Physics, 2004, 43, 5425-5429.	0.8	34
6	Dielectric Properties of Frequency Modulation Twisted Nematic LCDs Doped with Silver Nanoparticles. Japanese Journal of Applied Physics, 2004, 43, 5430-5434.	0.8	32
7	Enhanced contrast ratio and viewing angle of polymer-stabilized liquid crystal via refractive index matching between liquid crystal and polymer network. Optics Express, 2013, 21, 26914.	1.7	28
8	Enhancement of Contrast Ratio by Using Ferroelectric Nanoparticles in the Alignment Layer of Liquid Crystal Display. Japanese Journal of Applied Physics, 2008, 47, 4751.	0.8	24
9	Perspectives on the electrically induced properties of electrospun cellulose/liquid crystal devices. Journal of Electrostatics, 2011, 69, 623-630.	1.0	21
10	Topographically induced homeotropic alignment of liquid crystals on self-assembled opal crystals. Optics Express, 2018, 26, 8385.	1.7	21
11	Spontaneous polarization and response time of polymer dispersed ferroelectric liquid crystal (PDFLC). Ferroelectrics, 2000, 243, 197-206.	0.3	19
12	Cellulose-Based Liquid Crystalline Photoresponsive Films with Tunable Surface Wettability. Langmuir, 2011, 27, 6330-6337.	1.6	19
13	Surface polymer-stabilised in-plane field driven vertical alignment liquid crystal device. Liquid Crystals, 2014, 41, 552-557.	0.9	19
14	Ferroelectric Liquid Crystal Cell Versus Dye Doped Ferroelectric Liquid Crystal Cells: A Comparison of Dielectric Properties. Japanese Journal of Applied Physics, 2004, 43, 249-255.	0.8	18
15	Influence of ionic conductivity and interfacial charges on the relaxation dynamics of smectic phases of an antiferroelectric material. Journal of Molecular Liquids, 2008, 139, 35-42.	2.3	18
16	Super-fast switching of twisted nematic liquid crystals with a single-wall-carbon-nanotube-doped alignment layer. Journal of the Korean Physical Society, 2015, 66, 952-958.	0.3	18
17	Reduced graphene oxide (RGO) enriched polymer network for highly-enhanced electro-optic performance of a liquid crystalline blue phase. RSC Advances, 2017, 7, 16650-16654.	1.7	18
18	Effect of UV Curable Polymer on The Dielectric & Electro-Optic Properties of Ferroelectric Liquid Crystal. Ferroelectrics, 2003, 282, 239-248.	0.3	17

#	Article	IF	Citations
19	Improvement of Electro-Optical Characteristics of Liquid Crystal Display by Nanoparticle-Embedded Alignment Layers. Molecular Crystals and Liquid Crystals, 2009, 508, 1/[363]-13/[375].	0.4	15
20	Electro-optical and dielectric properties of a high tilt antiferroelectric liquid crystal mixture (W-193B). Journal Physics D: Applied Physics, 2009, 42, 225504.	1.3	15
21	Polymer-stabilized V-mode FLCDs and their application to color sequential fullcolor LCDs. Displays, 2004, 25, 45-47.	2.0	12
22	Dielectric and electro-optic behavior of pure ferroelectric liquid crystal material and the isomeric mixtures. Current Applied Physics, 2009, 9, 605-609.	1.1	11
23	Photo-stimulated phase and anchoring transitions of chiral azo-dye doped nematic liquid crystals. Optics Express, 2013, 21, 31324.	1.7	11
24	Effect of cadmium sulfide nanorod content on Freedericksz threshold voltage, splay and bend elastic constants in liquid-crystal nanocomposites. Journal Physics D: Applied Physics, 2012, 45, 235303.	1.3	10
25	Effects of Liquid Crystal Environment on the Spectroscopic and Photophysical Properties of Well-Known Reacting Systems 2,3-Dimethylindole (DMI) and 9-Cyanoanthracene (9CNA). Journal of Physical Chemistry A, 2007, 111, 11480-11486.	1.1	9
26	Deuterium NMR Study of Orientational Order in Cellulosic Network Microfibers. Macromolecules, 2010, 43, 5749-5755.	2.2	9
27	Electroâ€optical cells using a cellulose derivative and cholesteric liquid crystals. Liquid Crystals, 2008, 35, 1345-1350.	0.9	8
28	Deformation of isotropic and anisotropic liquid droplets dispersed in a cellulose liquid crystalline derivative. Cellulose, 2009, 16, 427-434.	2.4	8
29	Comparative study of the dielectric properties of an antiferroelectric liquid crystal in planar aligned cells and in microporous membrane. Journal of Molecular Liquids, 2007, 133, 104-110.	2.3	6
30	Electro-optic and dielectric behavior of a FLC material having doped with a non-mesogenic polar molecules. Current Applied Physics, 2008, 8, 542-548.	1.1	6
31	Bias dependent relaxation in different phases of an orthoconic antiferroelectric liquid crystal mixture (W-182). Current Applied Physics, 2010, 10, 631-635.	1.1	6
32	Reduction of the Residual DC in the Photoaligned Twisted Nematic Liquid Crystal Display Using Polymerized Reactive Mesogen. Applied Physics Express, 2012, 5, 081701.	1.1	6
33	Improved Mechanical Stability of Acetoxypropyl Cellulose upon Blending with Ultranarrow PbS Nanowires in Langmuir Monolayer Matrix. Langmuir, 2013, 29, 15231-15239.	1.6	6
34	Achieving a robust homogenously aligned liquid crystal layer with reactive mesogen for in-plane switching liquid crystal displays. Liquid Crystals, 2017, 44, 1194-1200.	0.9	6
35	Experimental characterization of hexatic smectic phases through electro-optic studies and dielectric relaxation spectroscopy. Liquid Crystals, 2004, 31, 119-125.	0.9	5
36	Crystallographic Phase Induced Electro-Optic Properties of Nanorod Blend Nematic Liquid Crystal. Journal of Nanoscience and Nanotechnology, 2011, 11, 7729-7734.	0.9	5

#	Article	IF	Citations
37	Studies on the dielectric behavior of ferroelectric liquid crystal material having a TGBA phase. Ferroelectrics, 2000, 244, 39-47.	0.3	4
38	Dielectric Properties and Electro-optic Characteristics of TN-LCDs Doped with Metal Nanoparticles Exhibiting Frequency Modulation Response Accompanying Fast Response. Molecular Crystals and Liquid Crystals, 2005, 433, 29-40.	0.4	4
39	Maximizing electro-optic performances in the fringe-field switching liquid crystal mode with negative dielectric anisotropic liquid crystal. Journal of the Society for Information Display, 2015, 23, 553-559.	0.8	4
40	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. Molecular Crystals and Liquid Crystals, 1999, 328, 161-176.	0.3	3
41	Influence of Network Stabilization on the Dielectric and Electrooptical Properties of Ferroelectric Liquid Crystal FELIX-M4851/100. Japanese Journal of Applied Physics, 2009, 48, 061501.	0.8	3
42	62.1: Reduction of the Threshold Voltage and Enhancement of Contrast Ratio in Liquid Crystal Devices with BaTiO3 Nanoparticle Embedded Surface Alignment Layers. Digest of Technical Papers SID International Symposium, 2010, 41, 925.	0.1	2
43	A Highly Ordered Self-Assembly Three-Grade Porous Helical Silica Tube. Journal of Nanoscience and Nanotechnology, 2008, 8, 1497-1501.	0.9	1
44	Irreversible phase and anchoring transitions of chiral azodye-doped nematic liquid crystal triggered by photostimulation. Journal of Information Display, 2015, 16, 65-70.	2.1	1
45	Preparation of Ag nanoparticles on a dye substrate. International Journal of Nanomanufacturing, 2006, 1, 283.	0.3	0
46	In situ creation of reactive polymer nanoparticles and resulting polymer layers formed at the interfaces of liquid crystals (Conference Presentation). , 2017, , .		0
47	Hierarchical assembly of carbon nanotubes-liquid crystal nanocomposite. Journal of Nanoscience and Nanotechnology, 2008, 8, 1735-40.	0.9	0