

Kaushik Pal

List of Publications by Year in descending order

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56
papers

1,745
citations

304743

22
h-index

289244

40
g-index

57
all docs

57
docs citations

57
times ranked

1680
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanofibers as new-generation materials: From spinning and nano-spinning fabrication techniques to emerging applications. <i>Applied Materials Today</i> , 2019, 17, 1-35.	4.3	296
2	Cutting edge development on graphene derivatives modified by liquid crystal and CdS/TiO ₂ hybrid matrix: optoelectronics and biotechnological aspects. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2021, 46, 385-449.	12.3	117
3	Response Surface Methodology Optimization of Mono-dispersed MgO Nanoparticles Fabricated by Ultrasonic-Assisted Sol-Gel Method for Outstanding Antimicrobial and Antibiofilm Activities. <i>Journal of Cluster Science</i> , 2020, 31, 367-389.	3.3	106
4	Virus-like nanoparticles as a novel delivery tool in gene therapy. <i>Biochimie</i> , 2019, 157, 38-47.	2.6	84
5	Structural, dielectric and optical investigation of chemically synthesized Ag-doped ZnO nanoparticles composites. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 83, 394-404.	2.4	77
6	A critical review on multifunctional smart materials – nanographene™ emerging avenue: nano-imaging and biosensor applications. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2022, 47, 691-707.	12.3	73
7	Fabrication of CuO nanoparticles for structural, optical and dielectric analysis using chemical precipitation method. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 12591-12597.	2.2	68
8	Soft, Self-Assembly Liquid Crystalline Nanocomposite for Superior Switching. <i>Electronic Materials Letters</i> , 2019, 15, 84-101.	2.2	52
9	Graphene-assembly liquid crystalline and nanopolymer hybridization: A review on switchable device implementations. <i>Chemosphere</i> , 2021, 263, 128104.	8.2	51
10	Factorial design-optimized and gamma irradiation-assisted fabrication of selenium nanoparticles by chitosan and <i>Pleurotus ostreatus</i> fermented fenugreek for a vigorous in vitro effect against carcinoma cells. <i>International Journal of Biological Macromolecules</i> , 2020, 156, 1584-1599.	7.5	39
11	Design, synthesis and application of hydrogen bonded smectic liquid crystal matrix encapsulated ZnO nanospikes. <i>Journal of Materials Chemistry C</i> , 2015, 3, 11907-11917.	5.5	37
12	Graphene functionalized hybrid nanomaterials for industrial-scale applications: A systematic review. <i>Journal of Molecular Structure</i> , 2021, 1239, 130518.	3.6	37
13	Switching of ferroelectric liquid crystal doped with cetyltrimethylammonium bromide-assisted CdS nanostructures. <i>Nanotechnology</i> , 2013, 24, 125702.	2.6	35
14	Emerging assembly of ZnO-nanowires/graphene dispersed liquid crystal for switchable device modulation. <i>Organic Electronics</i> , 2018, 56, 291-304.	2.6	34
15	A facile strategy for the fabrication of uniform CdS nanowires with high yield and its controlled morphological growth with the assistance of PEG in hydrothermal route. <i>Applied Surface Science</i> , 2011, 258, 163-168.	6.1	33
16	Synthetic strategy of porous ZnO and CdS nanostructures doped ferroelectric liquid crystal and its optical behavior. <i>Journal of Molecular Structure</i> , 2013, 1035, 76-82.	3.6	33
17	Reliable optoelectronic switchable device implementation by CdS nanowires conjugated bent-core liquid crystal matrix. <i>Organic Electronics</i> , 2020, 82, 105592.	2.6	33
18	Controllable synthesis of Graphene/ZnO-nanocomposite for novel switching. <i>Journal of Alloys and Compounds</i> , 2017, 728, 645-654.	5.5	32

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19	Biodegradation of Vulcanized SBR: A Comparison between <i>Bacillus subtilis</i> , <i>Pseudomonas aeruginosa</i> and <i>Streptomyces</i> sp. <i>Scientific Reports</i> , 2019, 9, 19304.	3.3	32
20	CdS nanowires encapsulated liquid crystal in-plane switching of LCD device. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 10301-10310.	2.2	28
21	Synthesis and characterization of TiO ₂ /graphene oxide nanocomposite. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 7892-7898.	2.2	27
22	Sodium-assisted TiO ₂ nanotube arrays of novel electrodes for photochemical sensing platform. <i>Organic Electronics</i> , 2020, 76, 105443.	2.6	27
23	Growth dynamics of CBD-assisted CuS nanostructured thin-film: optical, dielectric and novel switchable device applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 16463-16477.	2.2	25
24	Sustainability of One-Dimensional Nanostructures. , 2020, , 83-113.		25
25	Optical and electrical smart response of chemically stabilized graphene oxide. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 5235-5243.	2.2	23
26	Influence of ZnO nanostructures in liquid crystal interfaces for bistable switching applications. <i>Applied Surface Science</i> , 2015, 357, 1499-1510.	6.1	22
27	C-dots dispersed macro-mesoporous TiO ₂ photocatalyst for effective waste water treatment. <i>Characterization and Application of Nanomaterials</i> , 2018, 1, .	0.2	20
28	Switchable, self-assembled CdS nanomaterials embedded in liquid crystal cell for high performance static memory device. <i>Materials Letters</i> , 2016, 169, 37-41.	2.6	19
29	A chemical synthesized Al-doped PbS nanoparticles hybrid composite for optical and electrical response. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 10902-10908.	2.2	19
30	Scalable synthesis of CdS@Graphene nanocomposite spectroscopic characterizations. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 17193-17201.	2.2	18
31	Evaluation of Versatile CdS Nanomaterials Based Liquid Crystals Switchable Device. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 2401-2412.	0.9	17
32	Optical, dielectric and microscopic observation of different phases TiO ₂ metal host nanowires. <i>Journal of Molecular Structure</i> , 2012, 1016, 30-38.	3.6	16
33	Structural, optical and dielectric investigation of CdFe ₂ O ₄ nanoparticles. <i>Materials Research Express</i> , 2017, 4, 075025.	1.6	16
34	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.	2.6	15
35	Hydrothermal synthesis of zinc stannate nanoparticles spectroscopic investigation. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 11268-11274.	2.2	14
36	Nanoparticle-Stabilized Lattices of Topological Defects in Liquid Crystals. <i>International Journal of Thermophysics</i> , 2020, 41, 1.	2.1	14

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37	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
38	Temperature variation dielectric behavior of TiO ₂ nanocabbages and doped W-182(AFLC). Journal of Luminescence, 2013, 136, 278-284.	3.1	13
39	A Broad Family of Carbon Nanomaterials: Classification, Properties, Synthesis, and Emerging Applications. , 2019, , 1-40.		12
40	A facile synthesis of TiO ₂ /SiO ₂ /CdS-nanocomposites –optical and electrical–™ investigations. Journal of Materials Science: Materials in Electronics, 2017, 28, 9072-9080.	2.2	9
41	Comparative Evaluation of Physiochemical Properties of a Solid Fuel Derived from Adansonia digitata Trunk using Torrefaction. BioResources, 2017, 12, .	1.0	9
42	Dielectric and I–V characteristics of high luminous CdS nanostructures with confined geometrical growth. Journal of Molecular Structure, 2013, 1041, 16-22.	3.6	8
43	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
44	CBD progression of Ti-doped ZnO thin film spectroscopic characterizations. Journal of Materials Science: Materials in Electronics, 2017, 28, 16554-16560.	2.2	7
45	Electrochemically active carbon nanotube (CNT) membrane filter for desalination and water purification. , 2018, , 333-363.		7
46	Flexible Polymer Dispersed Liquid Crystal Module with Graphene Electrode. Journal of Nanoscience and Nanotechnology, 2015, 15, 9829-9833.	0.9	6
47	Functionalized Graphene Oxide Dispersed Hydrogen Bonded Liquid Crystals Efficient Electro-Optical Switching. Journal of Display Technology, 2016, 12, 281-287.	1.2	6
48	Influence of Fillers on NR/SBR Blends Containing ENR-Organoclay Nanocomposites: Morphology and Wear. Journal of Nanoscience and Nanotechnology, 2010, 10, 3022-3033.	0.9	5
49	Role of Fillers on Dispersion of MWCNT/Fluoroelastomeric Composites for High Performance Dielectric Energy Storage Application. Journal of Nanoscience and Nanotechnology, 2015, 15, 3641-3651.	0.9	5
50	Phase-segregated hydrogen bonded thermotropic liquid crystal–™s optical shuttering response and electro-optical sensor application. Materials Letters, 2021, 305, 130821.	2.6	5
51	Optical and Electrical Investigation of ZnO Nano-Wire Array to Micro-Flower from Hierarchical Nano-Rose Structures. Journal of Nanoscience and Nanotechnology, 2016, 16, 400-409.	0.9	4
52	Camphoric acid based ferroelectric hydrogen bonded liquid crystalline materials integration further dielectric relaxations and novel applications. Journal of Molecular Structure, 2021, 1232, 130022.	3.6	4
53	An efficient facile and one-pot synthesis of 2-arylsubstituted benzimidazole derivatives using 1-methyl-3-(2-oxoethyl)-1H-imidazol-3-ium-borate sulfonic acid as a recyclable and highly efficient ionic liquid catalyst at green condition. Eurasian Chemical Communications, 2019, 1, 191-199.	0.9	4
54	Introductory Chapter: Transparent Conducting Films. , 0, , .		3

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55	Investigations of CdS Nanostructures Encapsulated in Soft Self-Assembled Thermotropic Liquid Crystals Matrix. <i>Science of Advanced Materials</i> , 2016, 8, 1331-1344.	0.7	3
56	Removal of chromium VI and others metals from wastewater treatment by modification of macrophytes and magnetite: A review. <i>Revista Brasileira De GestÃ£o Ambiental E Sustentabilidade</i> , 2020, 7, 1439-1453.	0.0	1