

# Gautam Singh

## List of Publications by Year in descending order

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28  
papers

1,177  
citations

516710

16  
h-index

501196

28  
g-index

28  
all docs

28  
docs citations

28  
times ranked

1169  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stimuli-directed self-organized chiral superstructures for adaptive windows enabled by mesogen-functionalized graphene. <i>Materials Today</i> , 2017, 20, 230-237.	14.2	194
2	Reversible Isothermal Twist-Bend Nematic Nematic Phase Transition Driven by the Photoisomerization of an Azobenzene-Based Nonsymmetric Liquid Crystal Dimer. <i>Journal of the American Chemical Society</i> , 2016, 138, 5283-5289.	13.7	159
3	Room temperature heliconal twist-bend nematic liquid crystal. <i>CrystEngComm</i> , 2015, 17, 2778-2782.	2.6	135
4	Advances in gold nanoparticle-liquid crystal composites. <i>Nanoscale</i> , 2014, 6, 7743-7756.	5.6	111
5	NIR light-directing self-organized 3D photonic superstructures loaded with anisotropic plasmonic hybrid nanorods. <i>Chemical Communications</i> , 2015, 51, 15039-15042.	4.1	92
6	Near infrared light-driven liquid crystal phase transition enabled by hydrophobic mesogen grafted plasmonic gold nanorods. <i>Chemical Communications</i> , 2015, 51, 9845-9848.	4.1	60
7	Emissivity and electrooptical properties of semiconducting quantum dots/rods and liquid crystal composites: a review. <i>Reports on Progress in Physics</i> , 2016, 79, 056502.	20.1	58
8	Columnar molecular aggregation in the aqueous solutions of disodium cromoglycate. <i>Physical Review E</i> , 2014, 89, 062504.	2.1	41
9	Recent progress and future perspectives on carbon-nanomaterial-dispersed liquid crystal composites. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 083002.	2.8	39
10	Recent advances on cadmium free quantum dots-liquid crystal nanocomposites. <i>Applied Materials Today</i> , 2020, 21, 100840.	4.3	36
11	Investigation of dielectric behaviour in ferrofluid-ferroelectric liquid crystal nanocomposites. <i>Liquid Crystals</i> , 2012, 39, 927-932.	2.2	30
12	Electric field effect on the phase diagram of a bent-core liquid crystal. <i>Soft Matter</i> , 2013, 9, 6475.	2.7	29
13	Tunable polarised fluorescence of quantum dot doped nematic liquid crystals. <i>Liquid Crystals</i> , 2017, 44, 444-452.	2.2	22
14	Probing the impact of bismuth-titanate based nanocomposite on the dielectric and electro-optical features of a nematic liquid crystal material. <i>Journal of Molecular Liquids</i> , 2022, 347, 118389.	4.9	22
15	X-ray and Raman scattering study of orientational order in nematic and heliconal nematic liquid crystals. <i>Physical Review E</i> , 2016, 94, 060701.	2.1	21
16	Probing the impact of carbon quantum dots on partially unwound helical mode in ferroelectric liquid crystals. <i>Journal of Applied Physics</i> , 2019, 125, .	2.5	17
17	Electro-optical and dielectric characteristics of ferroelectric liquid crystal dispersed with palladium nanoparticles. <i>Journal of Molecular Liquids</i> , 2020, 315, 113776.	4.9	17
18	Board-like dibenzo[fg,op]naphthacenes: synthesis, characterization, self-assembly, and liquid crystallinity. <i>Journal of Materials Chemistry C</i> , 2013, 1, 5833.	5.5	15

#	ARTICLE	IF	CITATIONS
19	Recent advances on semiconducting nanomaterialsâ€“ferroelectric liquid crystals nanocomposites. Journal of Physics Condensed Matter, 2022, 34, 013004.	1.8	15
20	Impact of strontium titanate nanoparticles on the dielectric, electro-optical and electrical response of a nematic liquid crystal. Journal of Molecular Liquids, 2022, 354, 118907.	4.9	14
21	Recent advances and future perspectives on nanoparticles-controlled alignment of liquid crystals for displays and other photonic devices. Critical Reviews in Solid State and Materials Sciences, 2023, 48, 57-92.	12.3	13
22	Reminiscence Shown by de Vries Electroclinic Liquid Crystal Material. Japanese Journal of Applied Physics, 2007, 46, L559-L561.	1.5	11
23	Chiral and orientationally ordered fluid mesophases formed by oxadiazole bisaniline based achiral bent mesogens. Liquid Crystals, 2019, 46, 1373-1382.	2.2	10
24	Impact of twisted alignment on the smectic layer structure of ferroelectric liquid crystal. Journal of Molecular Liquids, 2020, 302, 112332.	4.9	5
25	Development of a scanning time of flight microscope and its application to the study of charge transport in phase separated structured organic semiconductors. Journal of Applied Physics, 2016, 119, .	2.5	3
26	The oblique chiral nematic phase in calamitic Bimesogens. Liquid Crystals, 2017, , 1-13.	2.2	3
27	Electrically tunable photoluminescence of semiconducting quantum dots doped nematic liquid crystal nanocomposites. AIP Conference Proceedings, 2018, , .	0.4	3
28	Anomalous Low Frequency Dielectric Relaxation in Nanoparticles/Isotropic Fluid Mixed Ferroelectric Liquid Crystals. Ferroelectrics, 2012, 431, 6-12.	0.6	2