

Sayantani Ghosh

List of Publications by Year in descending order

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papers

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687220

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28
all docs

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times ranked

953
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum dot/liquid crystal composite materials: self-assembly driven by liquid crystal phase transition templating. <i>Journal of Materials Chemistry C</i> , 2013, 1, 5527.	2.7	73
2	Hybrid Perovskite Thin Films as Highly Efficient Luminescent Solar Concentrators. <i>Advanced Optical Materials</i> , 2016, 4, 2126-2132.	3.6	62
3	Enhancing Charge Carrier Delocalization in Perovskite Quantum Dot Solids with Energetically Aligned Conjugated Capping Ligands. <i>ACS Energy Letters</i> , 2020, 5, 817-825.	8.8	58
4	Tuning Quantum Dot Organization in Liquid Crystals for Robust Photonic Applications. <i>ChemPhysChem</i> , 2014, 15, 1413-1421.	1.0	50
5	Nature inspiring processing route toward high throughput production of perovskite photovoltaics. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6989-6997.	5.2	32
6	Self-assembled nanoparticle micro-shells templated by liquid crystal sorting. <i>Soft Matter</i> , 2015, 11, 1701-1707.	1.2	29
7	Stabilization of the Cubic Crystalline Phase in Organometal Halide Perovskite Quantum Dots via Surface Energy Manipulation. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5378-5384.	2.1	27
8	Quantum Dot/Liquid Crystal Nanocomposites in Photonic Devices. <i>Photonics</i> , 2015, 2, 855-864.	0.9	25
9	Size and temperature dependence of photoluminescence of hybrid perovskite nanocrystals. <i>Journal of Chemical Physics</i> , 2019, 151, 154705.	1.2	24
10	Dynamics of spontaneous emission of quantum dots in a one-dimensional cholesteric liquid crystal photonic cavity. <i>RSC Advances</i> , 2012, 2, 12759.	1.7	22
11	Electrohydrodynamically Assisted Deposition of Efficient Perovskite Photovoltaics. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500762.	1.9	21
12	Low temperature excitonic spectroscopy and dynamics as a probe of quality in hybrid perovskite thin films. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 28428-28433.	1.3	16
13	High Efficiency Luminescent Solar Concentrator based on Organo-Metal Halide Perovskite Quantum Dots with Plasmon Enhancement. <i>Advanced Optical Materials</i> , 2021, 9, 2100754.	3.6	16
14	All-optical switching of nematic liquid crystal films driven by localized surface plasmons. <i>Optics Express</i> , 2015, 23, 6888.	1.7	12
15	The potential of scalability in high efficiency hybrid perovskite thin film luminescent solar concentrators. <i>Solar Energy</i> , 2019, 183, 392-397.	2.9	12
16	Magnetic field induced quantum dot brightening in liquid crystal synergized magnetic and semiconducting nanoparticle composite assemblies. <i>Soft Matter</i> , 2015, 11, 255-260.	1.2	11
17	Free-energy model for nanoparticle self-assembly by liquid crystal sorting. <i>Physical Review E</i> , 2018, 97, 062704.	0.8	11
18	Modulating Charge Carrier Dynamics and Transfer via Surface Modifications in Organometallic Halide Perovskite Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7886-7892.	2.1	11

#	ARTICLE	IF	CITATIONS
19	Plasmon-actuated nano-assembled microshells. Scientific Reports, 2017, 7, 17788.	1.6	10
20	Nanostructured photovoltaics. Nano Futures, 2019, 3, 012002.	1.0	9
21	Low-Temperature Energy Transfer <i>via</i> Self-Trapped Excitons in Mn ²⁺ -Doped 2D Organometal Halide Perovskites. Journal of Physical Chemistry Letters, 2020, 11, 10368-10374.	2.1	9
22	Effect of mesogenic ligands on short and long-term spectral dynamics and stability of core-shell CdSe/ZnS quantum dots. Materials Research Express, 2016, 3, 105029.	0.8	4
23	Impact of Bis(imino)pyridine Ligands on Mesoscale Properties of CdSe/ZnS Quantum Dots. Journal of Physical Chemistry C, 2020, 124, 22677-22683.	1.5	3
24	Optical switching of nematic liquid crystal film arising from induced electric field of localized surface plasmon resonance. Proceedings of SPIE, 2015, , .	0.8	2
25	Directed assembly of magnetic and semiconducting nanoparticles with tunable and synergistic functionality. Scientific Reports, 2019, 9, 15784.	1.6	2
26	Tuning Excitonic Properties of Pure and Mixed Halide Perovskite Thin Films via Interfacial Engineering. Advanced Materials Interfaces, 2018, 5, 1800209.	1.9	1
27	Modeling broadband cloaking using 3D nano-assembled plasmonic meta-structures. Optics Express, 2020, 28, 22732.	1.7	1
28	Tuning three-dimensional nano-assembly in the mesoscale via bis(imino)pyridine molecular functionalization. Scientific Reports, 2022, 12, 844.	1.6	1