Nimai Mishra

List of Publications by Year
in descending order

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29 papers	1,053 citations	331670 21 h-index	454955 30 g-index
30 all docs	30 docs citations	30 times ranked	1283 citing authors

#	Article	IF	Citations
1	The Phosphine Oxide Route toward Lead Halide Perovskite Nanocrystals. Journal of the American Chemical Society, 2018, 140, 14878-14886.	13.7	136
2	Asymmetric Dumbbells from Selective Deposition of Metals on Seeded Semiconductor Nanorods. Angewandte Chemie - International Edition, 2010, 49, 2888-2892.	13.8	88
3	Highâ€Performance Hybrid Solar Cell Made from CdSe/CdTe Nanocrystals Supported on Reduced Graphene Oxide and PCDTBT. Advanced Functional Materials, 2014, 24, 1904-1910.	14.9	56
4	Dual Wavelength Electroluminescence from CdSe/CdS Tetrapods. ACS Nano, 2014, 8, 2873-2879.	14.6	56
5	Unusual Selectivity of Metal Deposition on Tapered Semiconductor Nanostructures. Chemistry of Materials, 2012, 24, 2040-2046.	6.7	52
6	Recent Progress on Metal Chalcogenide Semiconductor Tetrapod-Shaped Colloidal Nanocrystals and their Applications in Optoelectronics. Chemistry of Materials, 2019, 31, 9216-9242.	6.7	51
7	Broadband Defects Emission and Enhanced Ligand Raman Scattering in 0D Cs₃Bi₂I₉ Colloidal Nanocrystals. Advanced Functional Materials, 2019, 29, 1805299.	14.9	44
8	Surface Passivation Strategies for Improving Photoluminescence and Stability of Cesium Lead Halide Perovskite Nanocrystals. ChemNanoMat, 2020, 6, 1730-1742.	2.8	44
9	Fast, tunable and reversible anion-exchange in CsPbBr₃ perovskite nanocrystals with hydrohalic acids. CrystEngComm, 2020, 22, 5022-5030.	2.6	39
10	Year-Long Stability and Near-Unity Photoluminescence Quantum Yield of CsPbBr₃ Perovskite Nanocrystals by Benzoic Acid Post-treatment. Journal of Physical Chemistry C, 2022, 126, 9502-9508.	3.1	39
11	Low Threshold, Amplified Spontaneous Emission from Coreâ€Seeded Semiconductor Nanotetrapods Incorporated into a Solâ€“Gel Matrix. Advanced Materials, 2012, 24, OP159-64.	21.0	37
12	Using shape to turn off blinking for two-colour multiexciton emission in CdSe/CdS tetrapods. Nature Communications, 2017, 8, 15083.	12.8	37
13	Continuous Shape Tuning of Nanotetrapods: Toward Shape-Mediated Self-Assembly. Chemistry of Materials, 2016, 28, 1187-1195.	6.7	36
14	Enhanced tunability of the multiphoton absorption cross-section in seeded CdSe/CdS nanorod heterostructures. Applied Physics Letters, 2010, 97, .	3.3	35
15	Enhancement of photoluminescence and the stability of CsPbX₃ (X = Cl, Br, and I) perovskite nanocrystals with phthalimide passivation. Nanoscale, 2021, 13, 14442-14449.	5.6	34
16	Surface modification for improving the photoredox activity of CsPbBr₃nanocrystals. Nanoscale Advances, 2021, 3, 2547-2553.	4.6	30
17	Bromopropane as a novel bromine precursor for the completely amine free colloidal synthesis of ultrastable and highly luminescent green-emitting cesium lead bromide (CsPbBr₃) perovskite nanocrystals. Nanoscale, 2021, 13, 13142-13151.	5.6	27
18	Completely Amineâ€Free Openâ€Atmospheric Synthesis of Highâ€Quality Cesium Lead Bromide (CsPbBr₃) Perovskite Nanocrystals. Chemistry - A European Journal, 2020, 26, 17195-17202.	3.3	26

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19	Surface-State-Mediated Interfacial Hole Transfer Dynamics between CsPbBr₃ Perovskite Nanocrystals and Phenothiazine Redox Couple. Journal of Physical Chemistry C, 2021, 125, 22133-22141.	3.1	26
20	High-Quality CsPbX₃ (X = Cl, Br, or I) Perovskite Nanocrystals Using Ascorbic Acid Post-Treatment: Implications for Light-Emitting Applications. ACS Applied Nano Materials, 2022, 5, 5972-5982.	5.0	24
21	Amineâ€Free Synthesis of Colloidal Cesium Lead Halide Perovskite Nanocrystals. ChemNanoMat, 2021, 7, 342-353.	2.8	23
22	Role of shell composition and morphology in achieving single-emitter photostability for green-emitting â€œgiantâ€•quantum dots. Journal of Chemical Physics, 2020, 152, 124713.	3.0	20
23	Multifunctional Semiconductor Nanoheterostructures via Siteâ€Selective Silica Encapsulation. Small, 2013, 9, 1908-1915.	10.0	18
24	Post-synthesis Treatment with Lead Bromide for Obtaining Near-Unity Photoluminescence Quantum Yield and Ultra-stable Amine-Free CsPbBr₃ Perovskite Nanocrystals. Journal of Physical Chemistry C, 2022, 126, 10742-10751.	3.1	16
25	Facet to Facet Linking of Shape Anisotropic Inorganic Nanocrystals with Site Specific and Stoichiometric Control. Nano Letters, 2016, 16, 6431-6436.	9.1	12
26	Cesium Lead Bromide Perovskite Nanocrystals as a Simple and Portable Spectrochemical Probe for Rapid Detection of Chlorides. ChemistrySelect, 2021, 6, 8171-8176.	1.5	12
27	Shell thickness dependent photostability studies of green-emitting â€œGiantâ€•quantum dots. Nanoscale Advances, 2021, 3, 6984-6991.	4.6	8
28	p-i-n Structured Semitransparent Perovskite Solar Cells with Solution-Processed Electron Transport Layer. Journal of Electronic Materials, 2021, 50, 5732-5739.	2.2	7
29	Study of Shell Thickness-Dependent Charge Transfer Dynamics in Green-Emitting Core/Shell Giant Quantum Dots. Inorganic Chemistry, 2022, 61, 1059-1066.	4.0	3