Manoj Sharma

List of Publications by Year in descending order

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47 papers	1,494 citations	331538 21 h-index	315616 38 g-index
47 all docs	47 docs citations	47 times ranked	1875 citing authors

#	Article	IF	Citations
1	UVâ€“Visible light induced photocatalytic studies of Cu doped ZnO nanoparticles prepared by co-precipitation method. Solar Energy, 2014, 110, 386-397.	2.9	190
2	Photocatalytic degradation of organic dyes under UVâ€“Visible light using capped ZnS nanoparticles. Solar Energy, 2012, 86, 626-633.	2.9	183
3	Nearâ€Unity Emitting Copperâ€Doped Colloidal Semiconductor Quantum Wells for Luminescent Solar Concentrators. Advanced Materials, 2017, 29, 1700821.	11.1	133
4	Record High External Quantum Efficiency of 19.2% Achieved in Lightâ€Emitting Diodes of Colloidal Quantum Wells Enabled by Hotâ€Injection Shell Growth. Advanced Materials, 2020, 32, e1905824.	11.1	95
5	Photoluminescence and photocatalytic studies of metal ions (Mn and Ni) doped ZnS nanoparticles. Optical Materials, 2015, 47, 7-17.	1.7	76
6	Ultrathin Highly Luminescent Twoâ€Monolayer Colloidal CdSe Nanoplatelets. Advanced Functional Materials, 2019, 29, 1901028.	7.8	56
7	Study of energy transfer from capping agents to intrinsic vacancies/defects in passivated ZnS nanoparticles. Journal of Nanoparticle Research, 2010, 12, 2655-2666.	0.8	54
8	Understanding the Journey of Dopant Copper Ions in Atomically Flat Colloidal Nanocrystals of CdSe Nanoplatelets Using Partial Cation Exchange Reactions. Chemistry of Materials, 2018, 30, 3265-3275.	3.2	51
9	Photocatalytic degradation of azo dyes using Zn-doped and undoped TiO2 nanoparticles. Applied Physics A: Materials Science and Processing, 2014, 116, 371-378.	1.1	46
10	Lightâ€Emitting Diodes with Cuâ€Doped Colloidal Quantum Wells: From Ultrapure Green, Tunable Dualâ€Emission to White Light. Small, 2019, 15, 1901983.	5.2	45
11	Excitation induced tunable emission in biocompatible chitosan capped ZnS nanophosphors. Journal of Applied Physics, 2010, 107, .	1.1	39
12	Two-Dimensional CdSe-Based Nanoplatelets: Their Heterostructures, Doping, Photophysical Properties, and Applications. Proceedings of the IEEE, 2020, 108, 655-675.	16.4	39
13	Effect of co-doping metal ions (Li+, Na+ and K+) on the structural and photoluminescent properties of nano-sized Y2O3:Eu3+ synthesized by co-precipitation method. Optical Materials, 2014, 36, 1131-1138.	1.7	36
14	Effect of different surfactants on structural and optical properties of Ce3+ and Tb3+ co-doped BiPO4 nanostructures. Optical Materials, 2015, 39, 110-117.	1.7	34
15	Structural and optical studies of undoped and copper doped zinc sulphide nanoparticles for photocatalytic application. Superlattices and Microstructures, 2015, 77, 35-53.	1.4	34
16	Fast and quick degradation properties of doped and capped ZnO nanoparticles under UVâ€“Visible light radiations. Solar Energy, 2016, 125, 51-64.	2.9	32
17	spâ€“d Exchange Interactions in Wave Function Engineered Colloidal CdSe/Mn:CdS Hetero-Nanoplatelets. Nano Letters, 2018, 18, 2047-2053.	4.5	32
18	Photocatalytic Studies of Crystal Violet Dye Using Mn Doped and PVP Capped ZnO Nanoparticles. Journal of Nanoscience and Nanotechnology, 2014, 14, 2725-2733.	0.9	31

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19	Spectrally Wide-Range-Tunable, Efficient, and Bright Colloidal Light-Emitting Diodes of Quasi-2D Nanoplatelets Enabled by Engineered Alloyed Heterostructures. Chemistry of Materials, 2020, 32, 7874-7883.	3.2	29
20	Nearâ€Infraredâ€Emitting Fiveâ€Monolayer Thick Copperâ€Doped CdSe Nanoplatelets. Advanced Optical Materials, 2019, 7, 1900831.	3.6	25
21	Synthesis, characterization, photocatalytic and reusability studies of capped ZnS nanoparticles. Bulletin of Materials Science, 2014, 37, 931-940.	0.8	23
22	Tunable emission in surface passivated Mn-ZnS nanophosphors and its application for Glucose sensing. AIP Advances, 2012, 2, .	0.6	21
23	All-optical control of exciton flow in a colloidal quantum well complex. Light: Science and Applications, 2020, 9, 27.	7.7	21
24	Light-Induced Paramagnetism in Colloidal Ag+-Doped CdSe Nanoplatelets. Journal of Physical Chemistry Letters, 2021, 12, 2892-2899.	2.1	17
25	Spectrally Resolved Nonlinear Optical Properties of Doped Versus Undoped Quasi-2D Semiconductor Nanocrystals: Copper and Silver Doping Provokes Strong Nonlinearity in Colloidal CdSe Nanoplatelets. ACS Photonics, 2022, 9, 256-267.	3.2	15
26	Excitation Induced Tunable Emission in Ce³⁺/Eu³⁺Codoped BiPO₄Nanophosphors. Journal of Spectroscopy, 2015, 2015, 1-10.	0.6	14
27	Morphology controlled Y2O3:Eu3+ nanophosphors with enhanced photoluminescence properties. Journal of Luminescence, 2015, 158, 268-274.	1.5	14
28	Blue-Emitting CdSe Nanoplatelets Enabled by Sulfur-Alloyed Heterostructures for Light-Emitting Diodes with Low Turn-on Voltage. ACS Applied Nano Materials, 2022, 5, 1367-1376.	2.4	14
29	Mutual Energy Transfer in a Binary Colloidal Quantum Well Complex. Journal of Physical Chemistry Letters, 2019, 10, 5193-5199.	2.1	13
30	Facile route to produce spherical and highly luminescent Tb3+ doped Y2O3 nanophosphors. Journal of Alloys and Compounds, 2017, 695, 726-736.	2.8	12
31	Persuasive Evidence for Electronâ€“Nuclear Coupling in Diluted Magnetic Colloidal Nanoplatelets Using Optically Detected Magnetic Resonance Spectroscopy. Journal of Physical Chemistry Letters, 2019, 10, 4437-4447.	2.1	12
32	Synthesis of fluorescent core-shell nanomaterials and strategies to generate white light. Journal of Applied Physics, 2015, 118, 044305.	1.1	9
33	CdSe/CdMnS Nanoplatelets with Bilayer Core and Magnetically Doped Shell Exhibit Switchable Excitonic Circular Polarization: Implications for Lasers and Light-Emitting Diodes. ACS Applied Nano Materials, 2020, 3, 3151-3156.	2.4	9
34	Cd-free Cu-doped ZnInS/ZnS Core/Shell Nanocrystals: Controlled Synthesis And Photophysical Properties. Nanoscale Research Letters, 2018, 13, 182.	3.1	8
35	Effect of pH on Photocatalytic Activity of Capped ZnS Nanoparticles. Journal of Nanoscience and Nanotechnology, 2013, 13, 4861-4871.	0.9	7
36	Nonradiative Energy Transfer between Doped and Undoped Flat Semiconductor Nanocrystals of Colloidal Quasi-2D Nanoplatelets. Journal of Physical Chemistry C, 2019, 123, 1470-1476.	1.5	7

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37	Non-Aqueous One-Pot SnO₂ Nanoparticle Inks and Their Use in Printable Perovskite Solar Cells. Chemistry of Materials, 2022, 34, 5535-5545.	3.2	7
38	Effect of pH on Size of ZnS Nanoparticles and Its Application for Dye Degradation. Particulate Science and Technology, 2015, 33, 184-188.	1.1	5
39	Luminescent properties of nano-sized Y[sub 2]O[sub 3]:Eu synthesized by co-precipitation method. AIP Conference Proceedings, 2013, , .	0.3	2
40	Highly luminescent ZnS:Mn/ZnS core shell nanoparticles for solid state lightning. , 2013, , .		1
41	Synthesis and characterization of zinc doped nano TiO[sub 2] for efficient photocatalytic degradation of Eriochrome Black T. , 2013, , .		1
42	Synthesis and optical study of barium magnesium aluminate blue phosphors. AIP Conference Proceedings, 2015, , .	0.3	1
43	Synthesis and characterization of Mn doped ZnCdS core shell nanostructures QDs using a chemical precipitation route. AIP Conference Proceedings, 2016, , .	0.3	1
44	Optical and Morphological Studies of Doped Core Shell ZnS:Cu/ZnS Nanoparticles. Defect and Diffusion Forum, 0, 347, 247-254.	0.4	0
45	Photocatalytic studies of capped ZnS nanoparticles. , 2013, , .		0
46	Mercaptopropionic acid capped ZnS:Mn/ZnS core/shell quantum dots as fluorescence probe for folic acid detection. , 2015, , .		0
47	Anomalous Spectral Characteristics of Ultrathin sub-nm Colloidal CdSe Nanoplatelets. , 2017, , .		0