# 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 | 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 |
| 2 | 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 |
| 3 | Non-Aqueous One-Pot SnO<sub>2</sub> Nanoparticle Inks and Their Use in Printable Perovskite Solar Cells. Chemistry of Materials, 2022, 34, 5535-5545. | 3.2 | 7 |
| 4 | Light-Induced Paramagnetism in Colloidal Ag+-Doped CdSe Nanoplatelets. Journal of Physical Chemistry Letters, 2021, 12, 2892-2899. | 2.1 | 17 |
| 5 | Two-Dimensional CdSe-Based Nanoplatelets: Their Heterostructures, Doping, Photophysical Properties, and Applications. Proceedings of the IEEE, 2020, 108, 655-675. | 16.4 | 39 |
| 6 | 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 |
| 7 | 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 |
| 8 | All-optical control of exciton flow in a colloidal quantum well complex. Light: Science and Applications, 2020, 9, 27. | 7.7 | 21 |
| 9 | 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 |
| 10 | Nearâ€Infraredâ€Emitting Fiveâ€Monolayer Thick Copperâ€Doped CdSe Nanoplatelets. Advanced Optical Materials, 2019, 7, 1900831. | 3.6 | 25 |
| 11 | 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 |
| 12 | 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 |
| 13 | Ultrathin Highly Luminescent Twoâ€Monolayer Colloidal CdSe Nanoplatelets. Advanced Functional Materials, 2019, 29, 1901028. | 7.8 | 56 |
| 14 | Mutual Energy Transfer in a Binary Colloidal Quantum Well Complex. Journal of Physical Chemistry Letters, 2019, 10, 5193-5199. | 2.1 | 13 |
| 15 | 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 |
| 16 | spâ€“d Exchange Interactions in Wave Function Engineered Colloidal CdSe/Mn:CdS Hetero-Nanoplatelets. Nano Letters, 2018, 18, 2047-2053. | 4.5 | 32 |
| 17 | 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 |
| 18 | Cd-free Cu-doped ZnInS/ZnS Core/Shell Nanocrystals: Controlled Synthesis And Photophysical Properties. Nanoscale Research Letters, 2018, 13, 182. | 3.1 | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Facile route to produce spherical and highly luminescent Tb3+ doped Y2O3 nanophosphors. Journal of Alloys and Compounds, 2017, 695, 726-736. | 2.8 | 12 |
| 20 | Nearâ€Unity Emitting Copperâ€Doped Colloidal Semiconductor Quantum Wells for Luminescent Solar Concentrators. Advanced Materials, 2017, 29, 1700821. | 11.1 | 133 |
| 21 | Anomalous Spectral Characteristics of Ultrathin sub-nm Colloidal CdSe Nanoplatelets. , 2017, , . | | 0 |
| 22 | Synthesis and characterization of Mn doped ZnCdS core shell nanostructures QDs using a chemical precipitation route. AIP Conference Proceedings, 2016, , . | 0.3 | 1 |
| 23 | 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 |
| 24 | Excitation Induced Tunable Emission in Ce<sup>3+</sup>/Eu<sup>3+</sup>Codoped BiPO<sub>4</sub>Nanophosphors. Journal of Spectroscopy, 2015, 2015, 1-10. | 0.6 | 14 |
| 25 | Photoluminescence and photocatalytic studies of metal ions (Mn and Ni) doped ZnS nanoparticles. Optical Materials, 2015, 47, 7-17. | 1.7 | 76 |
| 26 | Mercaptopropionic acid capped ZnS:Mn/ZnS core/shell quantum dots as fluorescence probe for folic acid detection. , 2015, , . | | 0 |
| 27 | Synthesis of fluorescent core-shell nanomaterials and strategies to generate white light. Journal of Applied Physics, 2015, 118, 044305. | 1.1 | 9 |
| 28 | Synthesis and optical study of barium magnesium aluminate blue phosphors. AIP Conference Proceedings, 2015, , . | 0.3 | 1 |
| 29 | 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 |
| 30 | 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 |
| 31 | 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 |
| 32 | Morphology controlled Y2O3:Eu3+ nanophosphors with enhanced photoluminescence properties. Journal of Luminescence, 2015, 158, 268-274. | 1.5 | 14 |
| 33 | 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 |
| 34 | 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 |
| 35 | Synthesis, characterization, photocatalytic and reusability studies of capped ZnS nanoparticles. Bulletin of Materials Science, 2014, 37, 931-940. | 0.8 | 23 |
| 36 | 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 |

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|---|---|---|---|
| 37 | 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 |
| 38 | Highly luminescent ZnS:Mn/ZnS core shell nanoparticles for solid state lightning. , 2013, , . | | 1 |
| 39 | Effect of pH on Photocatalytic Activity of Capped ZnS Nanoparticles. Journal of Nanoscience and Nanotechnology, 2013, 13, 4861-4871. | 0.9 | 7 |
| 40 | Photocatalytic studies of capped ZnS nanoparticles. , 2013, , . | | 0 |
| 41 | Synthesis and characterization of zinc doped nano TiO[sub 2] for efficient photocatalytic degradation of Eriochrome Black T. , 2013, , . | | 1 |
| 42 | Luminescent properties of nano-sized Y[sub 2]O[sub 3]:Eu synthesized by co-precipitation method. AIP Conference Proceedings, 2013, , . | 0.3 | 2 |
| 43 | Tunable emission in surface passivated Mn-ZnS nanophosphors and its application for Glucose sensing. AIP Advances, 2012, 2, . | 0.6 | 21 |
| 44 | Photocatalytic degradation of organic dyes under UVâ€“Visible light using capped ZnS nanoparticles. Solar Energy, 2012, 86, 626-633. | 2.9 | 183 |
| 45 | 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 |
| 46 | Excitation induced tunable emission in biocompatible chitosan capped ZnS nanophosphors. Journal of Applied Physics, 2010, 107, . | 1.1 | 39 |
| 47 | Optical and Morphological Studies of Doped Core Shell ZnS:Cu/ZnS Nanoparticles. Defect and Diffusion Forum, 0, 347, 247-254. | 0.4 | 0 |