

Shalini Singh

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

1,058
citations

393982

19
h-index

414034

32
g-index

37
all docs

37
docs citations

37
times ranked

1436
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Colloidal CdSe Nanoplatelets, A Model for Surface Chemistry/Optoelectronic Property Relations in Semiconductor Nanocrystals. <i>Journal of the American Chemical Society</i> , 2018, 140, 13292-13300. | 6.6 | 126 |
| 2 | Cross-Linked Poly(vinyl alcohol)-Poly(acrylonitrile-co-2-dimethylamino ethylmethacrylate) Based Anion-Exchange Membranes in Aqueous Media. <i>Journal of Physical Chemistry B</i> , 2010, 114, 198-206. | 1.2 | 103 |
| 3 | Compositionally Tunable Photoluminescence Emission in Cu ₂ ZnSn(S _{1-x} Se _x) ₄ Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 9120-9124. | 7.2 | 98 |
| 4 | A green method for the preparation of highly stable organic-inorganic hybrid anion-exchange membranes in aqueous media for electrochemical processes. <i>Polymer Chemistry</i> , 2010, 1, 1302. | 1.9 | 75 |
| 5 | Colloidal Synthesis of Cu ₂ SnSe ₃ Tetrapod Nanocrystals. <i>Journal of the American Chemical Society</i> , 2013, 135, 7835-7838. | 6.6 | 74 |
| 6 | Colloidal Cu ₂ ZnSn(SSe) ₄ (CZTSSe) Nanocrystals: Shape and Crystal Phase Control to Form Dots, Arrows, Ellipsoids, and Rods. <i>Chemistry of Materials</i> , 2015, 27, 4742-4748. | 3.2 | 49 |
| 7 | Boosting the Er ³⁺ 1.5 μm Luminescence in CsPbCl ₃ Perovskite Nanocrystals for Photonic Devices Operating at Telecommunication Wavelengths. <i>ACS Applied Nano Materials</i> , 2020, 3, 4699-4707. | 2.4 | 48 |
| 8 | Thermodynamic Equilibrium between Excitons and Excitonic Molecules Dictates Optical Gain in Colloidal CdSe Quantum Wells. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3637-3644. | 2.1 | 39 |
| 9 | Charge Carrier Cooling Bottleneck Opens Up Nonexcitonic Gain Mechanisms in Colloidal CdSe Quantum Wells. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9640-9650. | 1.5 | 39 |
| 10 | Strong upconversion emission in CsPbBr ₃ perovskite quantum dots through efficient BaYF ₅ :Yb, Ln sensitization. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2014-2021. | 2.7 | 38 |
| 11 | Localization-limited exciton oscillator strength in colloidal CdSe nanoplatelets revealed by the optically induced stark effect. <i>Light: Science and Applications</i> , 2021, 10, 112. | 7.7 | 30 |
| 12 | Colloidal WSe ₂ nanocrystals as anodes for lithium-ion batteries. <i>Nanoscale</i> , 2020, 12, 22307-22316. | 2.8 | 26 |
| 13 | Near-Edge Ligand Stripping and Robust Radiative Exciton Recombination in CdSe/CdS Core/Crown Nanoplatelets. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3339-3344. | 2.1 | 24 |
| 14 | Colloidal synthesis of homogeneously alloyed CdSexS _{1-x} nanorods with compositionally tunable photoluminescence. <i>Chemical Communications</i> , 2013, 49, 10293. | 2.2 | 23 |
| 15 | Occurrence of Polytypism in Compound Colloidal Metal Chalcogenide Nanocrystals, Opportunities, and Challenges. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3141-3148. | 2.1 | 23 |
| 16 | Selective Phase Transformation of Wurtzite Cu ₂ ZnSn(SSe) ₄ (CZTSSe) Nanocrystals into Zinc-Blende and Kesterite Phases by Solution and Solid State Transformations. <i>Chemistry of Materials</i> , 2016, 28, 5055-5062. | 3.2 | 23 |
| 17 | Assembling Ordered Nanorod Superstructures and Their Application as Microcavity Lasers. <i>Scientific Reports</i> , 2017, 7, 43884. | 1.6 | 22 |
| 18 | Assembly of binary, ternary and quaternary compound semiconductor nanorods: From local to device scale ordering influenced by surface charge. <i>CrystEngComm</i> , 2014, 16, 9446-9454. | 1.3 | 21 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Pb ²⁺ selective and highly cross-linked zirconium phosphonate membrane by sol-gel in aqueous media for electrochemical applications. <i>Desalination</i> , 2011, 276, 175-183. | 4.0 | 19 |
| 20 | Insights into Nucleation and Growth of Colloidal Quaternary Nanocrystals by Multimodal X-ray Analysis. <i>ACS Nano</i> , 2021, 15, 6439-6447. | 7.3 | 18 |
| 21 | Metal chalcogenide semiconductor nanocrystals synthesized from ion-conducting seeds and their applications. <i>Journal of Materials Chemistry C</i> , 2020, 8, 13868-13895. | 2.7 | 17 |
| 22 | Synthesis of Colloidal WSe ₂ Nanocrystals: Polymorphism Control by Precursor-Ligand Chemistry. <i>Crystal Growth and Design</i> , 2021, 21, 1451-1460. | 1.4 | 15 |
| 23 | Complete assembly of Cu ₂ ZnSnS ₄ (CZTS) nanorods at substrate interfaces using a combination of self and directed organisation. <i>Chemical Communications</i> , 2016, 52, 11587-11590. | 2.2 | 13 |
| 24 | Ligand Adsorption Energy and the Postpurification Surface Chemistry of Colloidal Metal Chalcogenide Nanocrystals. <i>Chemistry of Materials</i> , 2021, 33, 2796-2803. | 3.2 | 13 |
| 25 | Two-dimensional copper based colloidal nanocrystals: synthesis and applications. <i>Nanoscale</i> , 2022, 14, 2885-2914. | 2.8 | 13 |
| 26 | Promoting Cell Proliferation Using Water Dispersible Germanium Nanowires. <i>PLoS ONE</i> , 2014, 9, e108006. | 1.1 | 11 |
| 27 | Synthesis of Curved CuIn _{1-x} Ga _x (S _{1-y} Se _y) ₂ Nanocrystals and Complete Characterization of Their Diffraction Contrast Effects. <i>Chemistry of Materials</i> , 2018, 30, 8679-8689. | 3.2 | 10 |
| 28 | Van Hove Singularities and Trap States in Two-Dimensional CdSe Nanoplatelets. <i>Nano Letters</i> , 2021, 21, 1702-1708. | 4.5 | 9 |
| 29 | Broadband Optical Phase Modulation by Colloidal CdSe Quantum Wells. <i>Nano Letters</i> , 2022, 22, 58-64. | 4.5 | 8 |
| 30 | Subsuming the Metal Seed to Transform Binary Metal Chalcogenide Nanocrystals into Multinary Compositions. <i>ACS Nano</i> , 2022, 16, 8917-8927. | 7.3 | 8 |
| 31 | Heteroaggregation assisted wet synthesis of core-shell silver-silica-cadmium selenide nanowires. <i>Nanoscale</i> , 2016, 8, 1200-1209. | 2.8 | 7 |
| 32 | Phosphine free synthesis of copper telluride nanocrystals in 1-D and 2-D shapes using Dipehyditelluride (DPDTe) as an air-stable source. <i>Nanotechnology</i> , 2022, , . | 1.3 | 3 |
| 33 | The Surface Chemistry of Colloidal II-VI Two-Dimensional Nanoplatelets. , 0, , . | | 0 |
| 34 | Synthesis of Colloidal Tungsten Diselenide (WSe ₂) Nanocrystals by Hot Injection Method. , 0, , . | | 0 |
| 35 | Ligand Adsorption Energy and the Actual Surface Chemistry of Colloidal Nanocrystals. , 0, , . | | 0 |