

Shalini Singh

List of Publications by Year in descending order

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35
papers

1,058
citations

393982

19
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414034

32
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37
docs citations

37
times ranked

1436
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-dimensional copper based colloidal nanocrystals: synthesis and applications. <i>Nanoscale</i> , 2022, 14, 2885-2914.	2.8	13
2	Broadband Optical Phase Modulation by Colloidal CdSe Quantum Wells. <i>Nano Letters</i> , 2022, 22, 58-64.	4.5	8
3	Phosphine free synthesis of copper telluride nanocrystals in 1-D and 2-D shapes using Dipethyltelluride (DPDTe) as an air-stable source.. <i>Nanotechnology</i> , 2022, , .	1.3	3
4	Subsuming the Metal Seed to Transform Binary Metal Chalcogenide Nanocrystals into Multinary Compositions. <i>ACS Nano</i> , 2022, 16, 8917-8927.	7.3	8
5	Van Hove Singularities and Trap States in Two-Dimensional CdSe Nanoplatelets. <i>Nano Letters</i> , 2021, 21, 1702-1708.	4.5	9
6	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
7	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
8	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
9	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
10	Colloidal WSe ₂ nanocrystals as anodes for lithium-ion batteries. <i>Nanoscale</i> , 2020, 12, 22307-22316.	2.8	26
11	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
12	Boosting the Er ³⁺ 1.5 μ m 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
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	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
15	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
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Assembling Ordered Nanorod Superstructures and Their Application as Microcavity Lasers. Scientific Reports, 2017, 7, 43884.	1.6	22
20	Complete assembly of Cu ₂ ZnSnS ₄ (CZTS) nanorods at substrate interfaces using a combination of self and directed organisation. Chemical Communications, 2016, 52, 11587-11590.	2.2	13
21	Selective Phase Transformation of Wurtzite Cu ₂ ZnSn(SSe) ₄ (CZTSSe) Nanocrystals into Zinc-Blende and Kesterite Phases by Solution and Solid State Transformations. Chemistry of Materials, 2016, 28, 5055-5062.	3.2	23
22	Heteroaggregation assisted wet synthesis of core-shell silver-silica-cadmium selenide nanowires. Nanoscale, 2016, 8, 1200-1209.	2.8	7
23	Occurrence of Polytypism in Compound Colloidal Metal Chalcogenide Nanocrystals, Opportunities, and Challenges. Journal of Physical Chemistry Letters, 2015, 6, 3141-3148.	2.1	23
24	Colloidal Cu ₂ ZnSn(SSe) ₄ (CZTSSe) Nanocrystals: Shape and Crystal Phase Control to Form Dots, Arrows, Ellipsoids, and Rods. Chemistry of Materials, 2015, 27, 4742-4748.	3.2	49
25	Promoting Cell Proliferation Using Water Dispersible Germanium Nanowires. PLoS ONE, 2014, 9, e108006.	1.1	11
26	Assembly of binary, ternary and quaternary compound semiconductor nanorods: From local to device scale ordering influenced by surface charge. CrystEngComm, 2014, 16, 9446-9454.	1.3	21
27	Colloidal synthesis of homogeneously alloyed Cd _{1-x} Se _x nanorods with compositionally tunable photoluminescence. Chemical Communications, 2013, 49, 10293.	2.2	23
28	Compositionally Tunable Photoluminescence Emission in Cu ₂ ZnSn(S _{1-x} Se _x) ₄ Nanocrystals. Angewandte Chemie - International Edition, 2013, 52, 9120-9124.	7.2	98
29	Colloidal Synthesis of Cu ₂ SnSe ₃ Tetrapod Nanocrystals. Journal of the American Chemical Society, 2013, 135, 7835-7838.	6.6	74
30	Pb ²⁺ selective and highly cross-linked zirconium phosphonate membrane by sol-gel in aqueous media for electrochemical applications. Desalination, 2011, 276, 175-183.	4.0	19
31	A green method for the preparation of highly stable organic-inorganic hybrid anion-exchange membranes in aqueous media for electrochemical processes. Polymer Chemistry, 2010, 1, 1302.	1.9	75
32	Cross-Linked Poly(vinyl alcohol)-Poly(acrylonitrile-co-2-dimethylamino ethylmethacrylate) Based Anion-Exchange Membranes in Aqueous Media. Journal of Physical Chemistry B, 2010, 114, 198-206.	1.2	103
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