

Ajay Singh

List of Publications by Year in descending order

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44
papers

2,606
citations

257101

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citing authors

#	ARTICLE	IF	CITATIONS
1	Interplay of Bright Triplet and Dark Excitons Revealed by Magneto-Photoluminescence of Individual PbS/CdS Quantum Dots. <i>Small</i> , 2021, 17, e2006977.	5.2	6
2	PbS/CdS Quantum Dot Room-Temperature Single-Emitter Spectroscopy Reaches the Telecom O and S Bands via an Engineered Stability. <i>ACS Nano</i> , 2021, 15, 575-587.	7.3	22
3	Intrinsic Exciton Photophysics of PbS Quantum Dots Revealed by Low-Temperature Single Nanocrystal Spectroscopy. <i>Nano Letters</i> , 2019, 19, 8519-8525.	4.5	12
4	Photophysics of Thermally-Assisted Photobleaching in "Giant" Quantum Dots Revealed in Single Nanocrystals. <i>ACS Nano</i> , 2018, 12, 4206-4217.	7.3	31
5	Influence of morphology on the blinking mechanisms and the excitonic fine structure of single colloidal nanoplatelets. <i>Nanoscale</i> , 2018, 10, 22861-22870.	2.8	11
6	Controlling Morphology in Polycrystalline Films by Nucleation and Growth from Metastable Nanocrystals. <i>Nano Letters</i> , 2018, 18, 5530-5537.	4.5	4
7	Impact of Non-Uniform Doping on the Plasmonic Properties of In ₂ O ₃ Nanoparticles: A Study by Electron Energy Loss Spectroscopy. <i>Microscopy and Microanalysis</i> , 2018, 24, 1684-1685.	0.2	1
8	Compound Copper Chalcogenide Nanocrystals. <i>Chemical Reviews</i> , 2017, 117, 5865-6109.	23.0	670
9	Dopant Mediated Assembly of Cu ₂ ZnSnS ₄ Nanorods into Atomically Coupled 2D Sheets in Solution. <i>Nano Letters</i> , 2017, 17, 3421-3428.	4.5	19
10	Resonant Coupling between Molecular Vibrations and Localized Surface Plasmon Resonance of Faceted Metal Oxide Nanocrystals. <i>Nano Letters</i> , 2017, 17, 2611-2620.	4.5	94
11	Plasmonic Enhancement: Photoluminescence Enhancement of CuInS ₂ Quantum Dots in Solution Coupled to Plasmonic Gold Nanocup Array (<i>Small</i> 33/2017). <i>Small</i> , 2017, 13, .	5.2	0
12	Giant PbSe/CdSe/CdSe Quantum Dots: Crystal-Structure-Defined Ultrastable Near-Infrared Photoluminescence from Single Nanocrystals. <i>Journal of the American Chemical Society</i> , 2017, 139, 11081-11088.	6.6	48
13	Photoluminescence Enhancement of CuInS ₂ Quantum Dots in Solution Coupled to Plasmonic Gold Nanocup Array. <i>Small</i> , 2017, 13, 1700660.	5.2	17
14	Defect Engineering in Plasmonic Metal Oxide Nanocrystals. <i>Nano Letters</i> , 2016, 16, 3390-3398.	4.5	122
15	Large-scale synthesis of soluble graphitic hollow carbon nanorods with tunable photoluminescence for the selective fluorescent detection of DNA. <i>New Journal of Chemistry</i> , 2016, 40, 1571-1579.	1.4	49
16	Linking Semiconductor Nanocrystals into Gel Networks through All-Inorganic Bridges. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14840-14844.	7.2	45
17	Ordering in Polymer Micelle-Directed Assemblies of Colloidal Nanocrystals. <i>Nano Letters</i> , 2015, 15, 8240-8244.	4.5	21
18	Solution Synthesis and Assembly of Wurtzite-Derived Cu ^{In} Zn ^S Nanorods with Tunable Composition and Band Gap. <i>Chemistry of Materials</i> , 2015, 27, 1517-1523.	3.2	38

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19	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
20	Synergistic Role of Dopants on the Morphology of Alloyed Copper Chalcogenide Nanocrystals. Journal of the American Chemical Society, 2015, 137, 6464-6467.	6.6	32
21	Phase-transition-driven growth of compound semiconductor crystals from ordered metastable nanorods. Nature Communications, 2014, 5, 3133.	5.8	98
22	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
23	Colloidal synthesis of homogeneously alloyed Cd _x Sn _{1-x} nanorods with compositionally tunable photoluminescence. Chemical Communications, 2013, 49, 10293.	2.2	23
24	Systematic Study into the Synthesis and Shape Development in Colloidal CuIn _x Ga _{1-x} S ₂ Nanocrystals. Chemistry of Materials, 2013, 25, 653-661.	3.2	53
25	Fabrication of Noble metal-semiconductor hybrid nanostructures using phase transfer. Nano Research, 2013, 6, 121-130.	5.8	18
26	Highly Ordered Nanorod Assemblies Extending over Device Scale Areas and in Controlled Multilayers by Electrophoretic Deposition. Journal of Physical Chemistry B, 2013, 117, 1608-1615.	1.2	64
27	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
28	Colloidal Synthesis of Cu ₂ SnSe ₃ Tetrapod Nanocrystals. Journal of the American Chemical Society, 2013, 135, 7835-7838.	6.6	74
29	Crystallization of Semiconductor Nanorods into Perfectly Faceted Hexagonal Superstructures. Particle and Particle Systems Characterization, 2013, 30, 624-629.	1.2	12
30	High Density Growth of Indium seeded Silicon Nanowires in the Vapor phase of a High Boiling Point Solvent. Chemistry of Materials, 2012, 24, 2204-2210.	3.2	45
31	Assembly of CuIn _{1-x} Ga _x S ₂ Nanorods into Highly Ordered 2D and 3D Superstructures. ACS Nano, 2012, 6, 6977-6983.	7.3	76
32	Controlled semiconductor nanorod assembly from solution: influence of concentration, charge and solvent nature. Journal of Materials Chemistry, 2012, 22, 1562-1569.	6.7	76
33	Growth of Crystalline Copper Silicide Nanowires in High Yield within a High Boiling Point Solvent System. Chemistry of Materials, 2012, 24, 4319-4325.	3.2	31
34	Insight into the 3D Architecture and Quasicrystal Symmetry of Multilayer Nanorod Assemblies from Moiré Interference Patterns. ACS Nano, 2012, 6, 3339-3345.	7.3	45
35	Colloidal Synthesis of Wurtzite Cu ₂ ZnSnS ₄ Nanorods and Their Perpendicular Assembly. Journal of the American Chemical Society, 2012, 134, 2910-2913.	6.6	381
36	Silver tip formation on colloidal CdSe nanorods by a facile phase transfer protocol. Journal of Materials Chemistry, 2011, 21, 6815.	6.7	12

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37	Complete Synthesis of Germanium Nanocrystal Encrusted Carbon Colloids in Supercritical CO ₂ and their Superhydrophobic Properties. <i>Langmuir</i> , 2011, 27, 11166-11173.	1.6	5
38	A facile spin-cast route for cation exchange of multilayer perpendicularly-aligned nanorod assemblies. <i>Nanoscale</i> , 2011, 3, 4580.	2.8	35
39	Electrophoretic Deposition of Poly(3-decylthiophene) onto Gold-Mounted Cadmium Selenide Nanorods. <i>Langmuir</i> , 2011, 27, 13506-13513.	1.6	7
40	Protein immobilisation on perpendicularly aligned gold tipped nanorod assemblies. <i>Chemical Communications</i> , 2011, 47, 2655.	2.2	11
41	Size controlled gold tip growth onto II-VI nanorods. <i>Journal of Materials Chemistry</i> , 2010, 20, 7875.	6.7	38
42	Directing semiconductor nanorod assembly into 1D or 2D supercrystals by altering the surface charge. <i>Chemical Communications</i> , 2010, 46, 7193.	2.2	49
43	Electrophoretic Deposition of Spherical and Rod-Shaped Nanocrystals into Close Packed Superlattices. <i>ECS Transactions</i> , 2009, 19, 209-219.	0.3	4
44	Water dispersible semiconductor nanorod assemblies via a facile phase transfer and their application as fluorescent biomarkers. <i>Journal of Materials Chemistry</i> , 2009, 19, 8974.	6.7	17