Anshu Pandey

List of Publications by Year
in descending order

46 papers	2,536 citations	361045 20 h-index	301761 39 g-index
50 all docs	50 docs citations	50 times ranked	3948 citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic Structure and Spectroscopy of Iâ€“IIIâ€“VI2 Nanocrystals: A Perspective. Journal of Physical Chemistry C, 2022, 126, 7364-7373.	1.5	5
2	Unconventional properties of engineered Auâ€“Ag nanostructures. Superconductor Science and Technology, 2022, 35, 084001.	1.8	4
3	Tuning radiative lifetimes in semiconductor quantum dots. Journal of Chemical Physics, 2021, 154, 074707.	1.2	5
4	Theoretical Model for Luminescence Broadening and Anomalous Carrier Dynamics in Chalcopyrite Quantum Dots. Journal of Physical Chemistry C, 2021, 125, 18225-18233.	1.5	2
5	Optical Properties and Electronic Structure of Copper Zinc Sulfide Nanocrystals. Journal of Physical Chemistry C, 2021, 125, 17890-17896.	1.5	3
6	Ultrafast spectroscopic investigation of the artificial photosynthetic activity of CuAlS₂/ZnS quantum dots. Nano Select, 2021, 2, 958-966.	1.9	7
7	Electronic Structure Insights into the Tunable Luminescence of CuAlxFe1â€“xS2/ZnS Nanocrystals. Journal of Physical Chemistry C, 2021, 125, 2511-2518.	1.5	6
8	CuFeSe2 Quantum-Dot Based Infrared Photodetectors with Functionality in the Ambient. , 2021, , .		0
9	Low power all optical switching and implementation of universal logic gates using micro-bubbles in semiconductor nanocrystal solutions. Nanotechnology, 2020, 31, 055401.	1.3	1
10	Copper Iron Sulfide Nanocrystalâ€Bulk Silicon Heterojunctions for Broadband Photodetection. Advanced Materials Interfaces, 2020, 7, 2000056.	1.9	9
11	Shell Thickness-Dependent Tunable Threshold Voltage Single Quantum Dot Rectification Diode. Journal of Physical Chemistry C, 2018, 122, 3176-3181.	1.5	0
12	Optical Signatures of Impurityâ€“Impurity Interactions in Copper Containing IIâ€“VI Alloy Semiconductors. Journal of Physical Chemistry Letters, 2018, 9, 635-640.	2.1	7
13	Why Does CuFeS₂ Resemble Gold?. Journal of Physical Chemistry Letters, 2018, 9, 696-701.	2.1	31
14	Thermodynamic Model for Quantum Dot Assemblies Formed Because of Charge Transfer. ACS Omega, 2018, 3, 266-272.	1.6	1
15	Picosecond Electron Transfer from Quantum Dots Enables a General and Efficient Aerobic Oxidation of Boronic Acids. ACS Catalysis, 2018, 8, 5206-5211.	5.5	35
16	Solution processed Li₅AlO₄ dielectric for low voltage transistor fabrication and its application in metal oxide/quantum dot heterojunction phototransistors. Journal of Materials Chemistry C, 2018, 6, 790-798.	2.7	30
17	Temporal evolution of radiative rate reveals the localization of holes in CuInS₂-based quantum dots. Nano Futures, 2018, 2, 045007.	1.0	6
18	Efficient Photosynthesis of Organics from Aqueous Bicarbonate Ions by Quantum Dots Using Visible Light. ACS Energy Letters, 2018, 3, 1508-1514.	8.8	26

#	Article	IF	Citations
19	Optical Transparency Enabled by Anomalous Stokes Shift in Visible Light-Emitting CuAlS2-Based Quantum Dots. Journal of Physical Chemistry Letters, 2018, 9, 4451-4456.	2.1	24
20	Can SHG Measurements Determine the Polarity of Hybrid Lead Halide Perovskites?. ACS Energy Letters, 2018, 3, 1887-1891.	8.8	22
21	Behavior of Methylammonium Dipoles in MAPbX₃ (X = Br and I). Journal of Physical Chemistry Letters, 2017, 8, 4113-4121.	2.1	103
22	Recent Advances in Manganese Doped IIâ€VI Semiconductor Quantum Dots. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2016, 642, 1331-1339.	0.6	10
23	Cloning nanocrystal morphology with soft templates. Chemical Physics Letters, 2016, 658, 315-318.	1.2	3
24	CuFeS₂ Quantum Dots and Highly Luminescent CuFeS₂ Based Core/Shell Structures: Synthesis, Tunability, and Photophysics. Journal of the American Chemical Society, 2016, 138, 10207-10213.	6.6	80
25	Is CH₃NH₃PbI₃ Polar?. Journal of Physical Chemistry Letters, 2016, 7, 2412-2419.	2.1	134
26	Low Threshold Quantum Dot Lasers. Journal of Physical Chemistry Letters, 2016, 7, 1244-1248.	2.1	17
27	Hidden role of anion exchange reactions in nucleation of colloidal nanocrystals. CrystEngComm, 2016, 18, 759-764.	1.3	3
28	Recent advances in the preparation of nanocrystal solids. Pramana - Journal of Physics, 2015, 84, 1065-1071.	0.9	0
29	Impact of lifetime control on the threshold of quantum dot lasers. Physical Chemistry Chemical Physics, 2015, 17, 29374-29379.	1.3	1
30	Ionic Bonding between Artificial Atoms. Journal of Physical Chemistry C, 2014, 118, 30101-30105.	1.5	7
31	Rainbow Emission from an Atomic Transition in Doped Quantum Dots. Journal of Physical Chemistry Letters, 2014, 5, 2208-2213.	2.1	54
32	Controlling Light Absorption in Charge-Separating Core/Shell Semiconductor Nanocrystals. ACS Nano, 2013, 7, 11055-11063.	7.3	18
33	Optical studies of quantum dots. Spectroscopic Properties of Inorganic and Organometallic Compounds, 2013, , 123-155.	0.4	0
34	Long-lived photoinduced magnetization in copper-doped ZnSeâ€“CdSe coreâ€“shell nanocrystals. Nature Nanotechnology, 2012, 7, 792-797.	15.6	110
35	Generalized Synthesis of Hybrid Metalâ€“Semiconductor Nanostructures Tunable from the Visible to the Infrared. ACS Nano, 2012, 6, 3832-3840.	7.3	99
36	Copper-Doped Inverted Core/Shell Nanocrystals with â€œPermanentâ€•Optically Active Holes. Nano Letters, 2011, 11, 4753-4758.	4.5	176

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37	Efficient Synthesis of Highly Luminescent Copper Indium Sulfide-Based Core/Shell Nanocrystals with Surprisingly Long-Lived Emission. Journal of the American Chemical Society, 2011, 133, 1176-1179.	6.6	671
38	Hot Electron Extraction From Colloidal Quantum Dots. Journal of Physical Chemistry Letters, 2010, 1, 45-47.	2.1	126
39	Slow Electron Cooling in Colloidal Quantum Dots. Science, 2008, 322, 929-932.	6.0	472
40	Intraband spectroscopy and band offsets of colloidal II-VI core/shell structures. Journal of Chemical Physics, 2007, 127, 104710.	1.2	74
41	Multicarrier recombination in colloidal quantum dots. Journal of Chemical Physics, 2007, 127, 111104.	1.2	76
42	Exact solution of the classical mechanical quadratic Zeeman effect. Pramana - Journal of Physics, 2007, 68, 967-982.	0.9	0
43	Theoretical Determination of Standard Oxidation and Reduction Potentials of Chlorophyll-ain Acetonitrile. Journal of Physical Chemistry B, 2005, 109, 9066-9072.	1.2	28
44	Theoretical Determination of the Standard Reduction Potential of Plastocyanin in Vitro. Journal of Physical Chemistry B, 2004, 108, 8007-8016.	1.2	47
45	Spectroscopic Insights into the Electronic Structure of Copper Iron Sulfide Nanocrystals. , 0, , .		0
46	Copper Iron Chalcogenide Nanocrystals: Spectroscopy and Devices. , 0, , .		0