

Anshu Pandey

List of Publications by Year in descending order

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46
papers

2,536
citations

361045

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h-index

301761

39
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all docs

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docs citations

50
times ranked

3948
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Synthesis of Highly Luminescent Copper Indium Sulfide-Based Core/Shell Nanocrystals with Surprisingly Long-Lived Emission. <i>Journal of the American Chemical Society</i> , 2011, 133, 1176-1179.	6.6	671
2	Slow Electron Cooling in Colloidal Quantum Dots. <i>Science</i> , 2008, 322, 929-932.	6.0	472
3	Copper-Doped Inverted Core/Shell Nanocrystals with "Permanent" Optically Active Holes. <i>Nano Letters</i> , 2011, 11, 4753-4758.	4.5	176
4	Is $\text{CH}_3\text{NH}_3\text{PbI}_3$ Polar?. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2412-2419.	2.1	134
5	Hot Electron Extraction From Colloidal Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 45-47.	2.1	126
6	Long-lived photoinduced magnetization in copper-doped ZnSe/CdSe core-shell nanocrystals. <i>Nature Nanotechnology</i> , 2012, 7, 792-797.	15.6	110
7	Behavior of Methylammonium Dipoles in MAPbX_3 (X = Br and I). <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4113-4121.	2.1	103
8	Generalized Synthesis of Hybrid Metal-Semiconductor Nanostructures Tunable from the Visible to the Infrared. <i>ACS Nano</i> , 2012, 6, 3832-3840.	7.3	99
9	CuFeS_2 Quantum Dots and Highly Luminescent CuFeS_2 Based Core/Shell Structures: Synthesis, Tunability, and Photophysics. <i>Journal of the American Chemical Society</i> , 2016, 138, 10207-10213.	6.6	80
10	Multicarrier recombination in colloidal quantum dots. <i>Journal of Chemical Physics</i> , 2007, 127, 111104.	1.2	76
11	Intraband spectroscopy and band offsets of colloidal II-VI core/shell structures. <i>Journal of Chemical Physics</i> , 2007, 127, 104710.	1.2	74
12	Rainbow Emission from an Atomic Transition in Doped Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2208-2213.	2.1	54
13	Theoretical Determination of the Standard Reduction Potential of Plastocyanin in Vitro. <i>Journal of Physical Chemistry B</i> , 2004, 108, 8007-8016.	1.2	47
14	Picosecond Electron Transfer from Quantum Dots Enables a General and Efficient Aerobic Oxidation of Boronic Acids. <i>ACS Catalysis</i> , 2018, 8, 5206-5211.	5.5	35
15	Why Does CuFeS_2 Resemble Gold?. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 696-701.	2.1	31
16	Solution processed Li_5AlO_4 dielectric for low voltage transistor fabrication and its application in metal oxide/quantum dot heterojunction phototransistors. <i>Journal of Materials Chemistry C</i> , 2018, 6, 790-798.	2.7	30
17	Theoretical Determination of Standard Oxidation and Reduction Potentials of Chlorophyll-a in Acetonitrile. <i>Journal of Physical Chemistry B</i> , 2005, 109, 9066-9072.	1.2	28
18	Efficient Photosynthesis of Organics from Aqueous Bicarbonate Ions by Quantum Dots Using Visible Light. <i>ACS Energy Letters</i> , 2018, 3, 1508-1514.	8.8	26

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19	Optical Transparency Enabled by Anomalous Stokes Shift in Visible Light-Emitting CuAlS ₂ -Based Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4451-4456.	2.1	24
20	Can SHG Measurements Determine the Polarity of Hybrid Lead Halide Perovskites?. <i>ACS Energy Letters</i> , 2018, 3, 1887-1891.	8.8	22
21	Controlling Light Absorption in Charge-Separating Core/Shell Semiconductor Nanocrystals. <i>ACS Nano</i> , 2013, 7, 11055-11063.	7.3	18
22	Low Threshold Quantum Dot Lasers. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1244-1248.	2.1	17
23	Recent Advances in Manganese Doped II-VI Semiconductor Quantum Dots. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2016, 642, 1331-1339.	0.6	10
24	Copper Iron Sulfide Nanocrystal-Bulk Silicon Heterojunctions for Broadband Photodetection. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000056.	1.9	9
25	Ionic Bonding between Artificial Atoms. <i>Journal of Physical Chemistry C</i> , 2014, 118, 30101-30105.	1.5	7
26	Optical Signatures of Impurity-Impurity Interactions in Copper Containing II-VI Alloy Semiconductors. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 635-640.	2.1	7
27	Ultrafast spectroscopic investigation of the artificial photosynthetic activity of CuAlS ₂ /ZnS quantum dots. <i>Nano Select</i> , 2021, 2, 958-966.	1.9	7
28	Temporal evolution of radiative rate reveals the localization of holes in CuInS ₂ -based quantum dots. <i>Nano Futures</i> , 2018, 2, 045007.	1.0	6
29	Electronic Structure Insights into the Tunable Luminescence of CuAl _x Fe _{1-x} S ₂ /ZnS Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2021, 125, 2511-2518.	1.5	6
30	Tuning radiative lifetimes in semiconductor quantum dots. <i>Journal of Chemical Physics</i> , 2021, 154, 074707.	1.2	5
31	Electronic Structure and Spectroscopy of III-VI ₂ Nanocrystals: A Perspective. <i>Journal of Physical Chemistry C</i> , 2022, 126, 7364-7373.	1.5	5
32	Unconventional properties of engineered Au-Ag nanostructures. <i>Superconductor Science and Technology</i> , 2022, 35, 084001.	1.8	4
33	Cloning nanocrystal morphology with soft templates. <i>Chemical Physics Letters</i> , 2016, 658, 315-318.	1.2	3
34	Hidden role of anion exchange reactions in nucleation of colloidal nanocrystals. <i>CrystEngComm</i> , 2016, 18, 759-764.	1.3	3
35	Optical Properties and Electronic Structure of Copper Zinc Sulfide Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2021, 125, 17890-17896.	1.5	3
36	Theoretical Model for Luminescence Broadening and Anomalous Carrier Dynamics in Chalcopyrite Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2021, 125, 18225-18233.	1.5	2

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37	Impact of lifetime control on the threshold of quantum dot lasers. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 29374-29379.	1.3	1
38	Thermodynamic Model for Quantum Dot Assemblies Formed Because of Charge Transfer. <i>ACS Omega</i> , 2018, 3, 266-272.	1.6	1
39	Low power all optical switching and implementation of universal logic gates using micro-bubbles in semiconductor nanocrystal solutions. <i>Nanotechnology</i> , 2020, 31, 055401.	1.3	1
40	Exact solution of the classical mechanical quadratic Zeeman effect. <i>Pramana - Journal of Physics</i> , 2007, 68, 967-982.	0.9	0
41	Optical studies of quantum dots. <i>Spectroscopic Properties of Inorganic and Organometallic Compounds</i> , 2013, , 123-155.	0.4	0
42	Recent advances in the preparation of nanocrystal solids. <i>Pramana - Journal of Physics</i> , 2015, 84, 1065-1071.	0.9	0
43	Shell Thickness-Dependent Tunable Threshold Voltage Single Quantum Dot Rectification Diode. <i>Journal of Physical Chemistry C</i> , 2018, 122, 3176-3181.	1.5	0
44	Spectroscopic Insights into the Electronic Structure of Copper Iron Sulfide Nanocrystals. , 0, , .		0
45	Copper Iron Chalcogenide Nanocrystals: Spectroscopy and Devices. , 0, , .		0
46	CuFeSe ₂ Quantum-Dot Based Infrared Photodetectors with Functionality in the Ambient. , 2021, , .		0