

# Amiya Priyam

## List of Publications by Year in descending order

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39  
papers

943  
citations

394421

19  
h-index

434195

31  
g-index

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39  
docs citations

39  
times ranked

1259  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gold nanoshell coated NaYF <sub>4</sub> nanoparticles for simultaneously enhanced upconversion fluorescence and darkfield imaging. <i>Journal of Materials Chemistry</i> , 2012, 22, 960-965.	6.7	175
2	Size tunable synthesis of cysteine-capped CdS nanoparticles by $\hat{I}^3$ -irradiation. <i>Journal of Colloid and Interface Science</i> , 2006, 294, 334-342.	9.4	47
3	Temperature tunability of size in CdS nanoparticles and size dependent photocatalytic degradation of nitroaromatics. <i>Journal of Colloid and Interface Science</i> , 2008, 322, 128-135.	9.4	47
4	Characterization of defects in ZnO nanocrystals: Photoluminescence and positron annihilation spectroscopic studies. <i>Journal of Applied Physics</i> , 2007, 102, 103514.	2.5	46
5	Differential growth and photoluminescence of ZnS nanocrystals with variation of surfactant molecules. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 297, 258-266.	4.7	46
6	Enhancing the magnetic characteristics of BiFeO <sub>3</sub> nanoparticles by Ca, Ba co-doping. <i>Materials Chemistry and Physics</i> , 2012, 135, 144-149.	4.0	42
7	Mechanistic Aspects of Quantum Dot Based Probing of Cu (II) Ions: Role of Dendrimer in Sensor Efficiency. <i>Journal of Fluorescence</i> , 2009, 19, 723-731.	2.5	41
8	pH dependent interaction of biofunctionalized CdS nanoparticles with nucleobases and nucleotides: A fluorimetric study. <i>Journal of Luminescence</i> , 2007, 126, 764-770.	3.1	39
9	Size dependent interaction of biofunctionalized CdS nanoparticles with tyrosine at different pH. <i>Chemical Communications</i> , 2005, , 4122.	4.1	37
10	Synthesis and spectral studies of cysteine-capped CdS nanoparticles. <i>Research on Chemical Intermediates</i> , 2005, 31, 691-702.	2.7	35
11	Surface-functionalized cadmium chalcogenide nanocrystals: A spectroscopic investigation of growth and photoluminescence. <i>Journal of Crystal Growth</i> , 2007, 304, 416-424.	1.5	33
12	Facile tuning of plasmon bands in hollow silver nanoshells using mild reductant and mild stabilizer. <i>Dalton Transactions</i> , 2013, 42, 10597.	3.3	33
13	Quercetin loaded folate targeted plasmonic silver nanoparticles for light activated chemo-photothermal therapy of DMBA induced breast cancer in Sprague Dawley rats. <i>RSC Advances</i> , 2020, 10, 31961-31978.	3.6	30
14	Shape and size dependent nonlinear refraction and absorption in citrate-stabilized, near-IR plasmonic silver nanopyrramids. <i>Photochemical and Photobiological Sciences</i> , 2017, 16, 1556-1562.	2.9	28
15	Supersaturation driven tailoring of photoluminescence efficiency and size distribution: A simplified aqueous approach for producing high-quality, biocompatible quantum dots. <i>Journal of Colloid and Interface Science</i> , 2009, 333, 195-201.	9.4	26
16	Synthesis, Characterization, and Self-Organization of Dendrimer-Encapsulated HgTe Quantum Dots. <i>Langmuir</i> , 2010, 26, 10636-10644.	3.5	22
17	Citrate-hydrazine hydrogen-bonding driven single-step synthesis of tunable near-IR plasmonic, anisotropic silver nanocrystals: implications for SERS spectroscopy of inorganic oxoanions. <i>Dalton Transactions</i> , 2014, 43, 11826-11833.	3.3	21
18	Water-soluble, luminescent ZnTe quantum dots: supersaturation-controlled synthesis and self-assembly into nanoballs, nanonecklaces and nanowires. <i>Dalton Transactions</i> , 2016, 45, 3918-3926.	3.3	21

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19	Nonlinear Absorption and Refraction of Highly Monodisperse and Luminescent ZnTe Quantum Dots and Their Self-Assembled Nanostructures: Implications for Optoelectronic Devices. ACS Omega, 2021, 6, 31375-31383.	3.5	21
20	Conformation and activity dependent interaction of glucose oxidase with CdTe quantum dots: towards developing a nanoparticle based enzymatic assay. Photochemical and Photobiological Sciences, 2009, 8, 362-370.	2.9	19
21	Folate-Directed Shape-Transformative Synthesis of Hollow Silver Nanocubes: Plasmon Tunability, Growth Kinetics, and Catalytic Applications. ACS Applied Nano Materials, 2018, 1, 4294-4305.	5.0	17
22	Femtosecond-Laser-Induced Saturable Absorption and Optical Limiting of Hollow Silver Nanocubes: Implications for Optical Switching and Bioimaging. ACS Applied Nano Materials, 2020, 3, 11620-11629.	5.0	16
23	Tailoring the structural, optical and magnetic properties of BiFeO <sub>3</sub> multiferroic nanoparticles by Ba, Cr co-doping. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2019, 241, 48-54.	3.5	15
24	Volatile interface of biological oxidant and luminescent CdTe quantum dots: implications in nanodiagnostics. Physical Chemistry Chemical Physics, 2009, 11, 520-527.	2.8	14
25	Gamma radiation induced differential growth of CdS nanoparticles capped with aromatic and aliphatic thiols. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 301, 239-245.	4.7	12
26	Interaction of ZnS nanoparticles with flavins and glucose oxidase: A fluorimetric investigation. Journal of Luminescence, 2012, 132, 545-549.	3.1	12
27	Surface Charge Tunability and Size Dependent Luminescence Anisotropy of Aqueous Synthesized ZnS/Dendrimer Nanocomposites. Journal of Nanoscience and Nanotechnology, 2009, 9, 6726-6735.	0.9	11
28	Photoluminescence and Electroluminescence from a Hybrid of Lumogen Red in Nanoporous-Silica. Journal of Nanoscience and Nanotechnology, 2008, 8, 1336-1340.	0.9	10
29	Herniarin, a natural coumarin loaded novel targeted plasmonic silver nanoparticles for light activated chemo-photothermal therapy in preclinical model of breast cancer. Pharmacognosy Magazine, 2020, 16, 474.	0.6	7
30	Seed geometry and hydrogen bonding dependent plasmonic tuning of silver nanocrystals in a citrate-hydrazine matrix and SERS spectroscopic detection of chromium. RSC Advances, 2017, 7, 45911-45919.	3.6	5
31	Size Tunability of CdTe Crystallites in Dendrimer Nanocomposites and Temperature Dependent Focusing of Size Distribution. Journal of Nanoscience and Nanotechnology, 2008, 8, 5952-5957.	0.9	4
32	Structural and optical properties of Ba,Cr Co-doped BiFeO <sub>3</sub> multiferroic nanoparticles. AIP Conference Proceedings, 2017, , .	0.4	3
33	Hollow Silver Nanostructures: The Role of Capping Agents in Tailoring the Shape, Structure, and Plasmonic Properties. Microscopy and Microanalysis, 2019, 25, 1431-1436.	0.4	3
34	Allovalent Doping of Multiferroic BiFeO <sub>3</sub> Nanoparticles for Enhanced Functionality. , 2018, , 187-223.		3
35	Degree of supersaturation: An effective tool to control the luminescence efficiency and size distribution in CdTe quantum dots. AIP Conference Proceedings, 2013, , .	0.4	1
36	Size tunability of CdTe crystallites in dendrimer nanocomposites and temperature dependent focusing of size distribution. Journal of Nanoscience and Nanotechnology, 2008, 8, 5952-7.	0.9	1

#	ARTICLE	IF	CITATIONS
37	A Brief Overview on Synthesis and Size Dependent Photocatalytic Behaviour of Luminescent Semiconductor Quantum Dots. Statistical Science and Interdisciplinary Research, 2012, , 271-298.	0.0	0
38	ZnO nanotube array: Gas sensing properties at room temperature. AIP Conference Proceedings, 2017, , .	0.4	0
39	Supersaturation controlled aqueous synthesis of Mn-doped CdTe quantum dots with enhanced luminescence and monodispersity. AIP Conference Proceedings, 2017, , .	0.4	0