

Alexandra Raevskaya

List of Publications by Citations

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39
papers

843
citations

15
h-index

28
g-index

40
ext. papers

1,021
ext. citations

5.1
avg, IF

4.46
L-index

#	Paper	IF	Citations
39	Solar light harvesting with multinary metal chalcogenide nanocrystals. <i>Chemical Society Reviews</i> , 2018 , 47, 5354-5422	58.5	122
38	Photocatalytic hydrogen evolution over mesoporous TiO ₂ /metal nanocomposites. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008 , 198, 126-134	4.7	108
37	A Fine Size Selection of Brightly Luminescent Water-Soluble AgInS and AgInS/ZnS Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 9032-9042	3.8	94
36	Origin and Dynamics of Highly Efficient Broadband Photoluminescence of Aqueous Glutathione-Capped Size-Selected AgInS Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 13648-13658	3.8	67
35	Preparation of colloidal CdSe and CdS/CdSe nanoparticles from sodium selenosulfate in aqueous polymers solutions. <i>Journal of Colloid and Interface Science</i> , 2006 , 302, 133-41	9.3	49
34	Luminescence and photoelectrochemical properties of size-selected aqueous copper-doped Ag-In-S quantum dots.. <i>RSC Advances</i> , 2018 , 8, 7550-7557	3.7	40
33	Non-stoichiometric CuInS@ZnS nanoparticles produced in aqueous solutions as light harvesters for liquid-junction photoelectrochemical solar cells. <i>RSC Advances</i> , 2016 , 6, 100145-100157	3.7	39
32	Annealing-induced structural transformation of gelatin-capped Se nanoparticles. <i>Solid State Communications</i> , 2008 , 145, 288-292	1.6	28
31	Luminescent Ag-doped In ₂ S ₃ nanoparticles stabilized by mercaptoacetate in water and glycerol. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 1	2.3	26
30	"Green" Aqueous Synthesis and Advanced Spectral Characterization of Size-Selected CuZnSnS Nanocrystal Inks. <i>Scientific Reports</i> , 2018 , 8, 13677	4.9	25
29	Origin of the Broadband Photoluminescence of Pristine and Cu ⁺ /Ag ⁺ -Doped Ultrasmall CdS and CdSe/CdS Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 10267-10277	3.8	23
28	Structural and optical characterization of colloidal Se nanoparticles prepared via the acidic decomposition of sodium selenosulfate. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008 , 320, 169-174	5.1	23
27	Preparation and optical properties of highly luminescent colloidal single-layer carbon nitride. <i>RSC Advances</i> , 2015 , 5, 46843-46849	3.7	22
26	Graphitic carbon nitride nanotubes: a new material for emerging applications.. <i>RSC Advances</i> , 2020 , 10, 34059-34087	3.7	19
25	A new route to very stable water-soluble ultra-small core/shell CdSe/CdS quantum dots. <i>Nano Structures Nano Objects</i> , 2018 , 13, 146-154	5.6	17
24	Photopolymerization of water-soluble acrylic monomers induced by colloidal CdS and Cd _x Zn _{1-x} S nanoparticles. <i>Colloid and Polymer Science</i> , 2008 , 286, 489-498	2.4	14
23	Photocatalytic H ₂ production from aqueous solutions of hydrazine and its derivatives in the presence of nitric-acid-activated graphitic carbon nitride. <i>Catalysis Today</i> , 2017 , 284, 229-235	5.3	13

22	Temperature-Dependent Photoluminescence of Silver-Indium-Sulfide Nanocrystals in Aqueous Colloidal Solutions. <i>ChemPhysChem</i> , 2019 , 20, 1640-1648	3.2	12
21	Raman and X-ray Photoemission Identification of Colloidal Metal Sulfides as Potential Secondary Phases in Nanocrystalline Cu ₂ ZnSnS ₄ Photovoltaic Absorbers. <i>ACS Applied Nano Materials</i> , 2020 , 3, 5706-5717	5.6	12
20	Brightly luminescent colloidal Ag ₂ S nanoparticles stabilized in aqueous solutions by branched polyethyleneimine. <i>Journal of Luminescence</i> , 2016 , 178, 295-300	3.8	11
19	Insights into different photoluminescence mechanisms of binary and ternary aqueous nanocrystals from the temperature dependence: A case study of CdSe and Ag-In-S. <i>Journal of Luminescence</i> , 2019 , 215, 116630	3.8	9
18	Morphology, optical and catalytic properties of polyethyleneimine-stabilized Au nanoparticles. <i>Journal of Molecular Catalysis A</i> , 2015 , 398, 35-41		8
17	Raman study of flash-lamp annealed aqueous CuZnSnS nanocrystals. <i>Beilstein Journal of Nanotechnology</i> , 2019 , 10, 222-227	3	7
16	Ultra-small aqueous glutathione-capped Ag-In-Se quantum dots: luminescence and vibrational properties.. <i>RSC Advances</i> , 2020 , 10, 42178-42193	3.7	7
15	Mercury-indium-sulfide nanocrystals: A new member of the family of ternary in based chalcogenides. <i>Journal of Chemical Physics</i> , 2019 , 151, 144701	3.9	6
14	Composition-Dependent Optical Band Bowing, Vibrational, and Photochemical Behavior of Aqueous Glutathione-Capped (Cu, Ag) ₂ S Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 19375-19388	3.8	6
13	Active Plasmonic Colloid-to-Film-Coupled Cavities for Tailored Light-Matter Interactions. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 6745-6752	3.8	6
12	Phonon Spectra of Strongly Luminescent Nonstoichiometric Ag ₂ S, Cu ₂ S, and Hg ₂ S Nanocrystals of Small Size. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 15511-15522	3.8	5
11	Influence of Thermal and Photochemical Treatments on Structure and Optical Properties of Single-Layer Carbon Nitride. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1800279	1.3	3
10	Photoinduced transformations of optical properties of CdSe and Ag-In-S nanocrystals embedded in the films of polyvinyl alcohol. <i>AIMS Materials Science</i> , 2016 , 3, 658-668	1.9	3
9	High-Throughput Time-Resolved Photoluminescence Study of Composition- and Size-Selected Aqueous Ag ₂ S Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 12185-12197	3.8	3
8	High-Throughput Robotic Synthesis and Photoluminescence Characterization of Aqueous Multinary CopperSilver Indium Chalcogenide Quantum Dots. <i>Particle and Particle Systems Characterization</i> , 2021 , 38, 2100169	3.1	3
7	Photoinduced Enhancement of Photoluminescence of Colloidal II-VI Nanocrystals in Polymer Matrices. <i>Nanomaterials</i> , 2020 , 10,	5.4	2
6	Raman and X-ray Photoelectron Spectroscopic Study of Aqueous Thiol-Capped Ag-Zn-Sn-S Nanocrystals. <i>Materials</i> , 2021 , 14,	3.5	2
5	Spontaneous alloying of ultrasmall non-stoichiometric Ag-In-S and Cu-In-S quantum dots in aqueous colloidal solutions.. <i>RSC Advances</i> , 2021 , 11, 21145-21152	3.7	2

4	Unique Luminescent Properties of Composition-/Size-Selected Aqueous Ag-In-S and Core/Shell Ag-In-S/ZnS Quantum Dots. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2020 , 67-122	0.3	1
3	Room-Temperature Electron Paramagnetic Resonance Study of a Copper-Related Defect in Cu ₂ ZnSnS ₄ Colloidal Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 9923-9929	3.8	1
2	Single-layer carbon nitride: synthesis, structure, photophysical/photochemical properties, and applications. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 20745-20764	3.6	1
1	Copper-Content Dependent Structural and Electrical Properties of CZTS Films Formed by "Green" Colloidal Nanocrystals. <i>Electronic Materials</i> , 2022 , 3, 136-153	0.8	0