

# Oleksandr L Stroyuk

## List of Publications by Year in descending order

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170  
papers

3,395  
citations

147566

31  
h-index

189595

50  
g-index

170  
all docs

170  
docs citations

170  
times ranked

3842  
citing authors

#	ARTICLE	IF	CITATIONS
1	Solar light harvesting with multinary metal chalcogenide nanocrystals. <i>Chemical Society Reviews</i> , 2018, 47, 5354-5422.	18.7	177
2	A Fine Size Selection of Brightly Luminescent Water-Soluble Ag <sup>+</sup> In <sup>3+</sup> S and Ag <sup>+</sup> In <sup>3+</sup> S/ZnS Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2017, 121, 9032-9042.	1.5	131
3	Photocatalytic hydrogen evolution over mesoporous TiO <sub>2</sub> /metal nanocomposites. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 198, 126-134.	2.0	124
4	Optical and catalytic properties of Ag <sub>2</sub> S nanoparticles. <i>Journal of Molecular Catalysis A</i> , 2004, 221, 209-221.	4.8	117
5	Photochemical synthesis and optical properties of binary and ternary metal <sup>+</sup> semiconductor composites based on zinc oxide nanoparticles. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005, 173, 185-194.	2.0	97
6	Resonant Raman scattering study of CdSe nanocrystals passivated with CdS and ZnS. <i>Nanotechnology</i> , 2007, 18, 285701.	1.3	89
7	Origin and Dynamics of Highly Efficient Broadband Photoluminescence of Aqueous Glutathione-Capped Size-Selected Ag <sup>+</sup> In <sup>3+</sup> S Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13648-13658.	1.5	88
8	Size effects on Raman spectra of small CdSe nanoparticles in polymer films. <i>Nanotechnology</i> , 2008, 19, 305707.	1.3	86
9	Nonresonant Surface-Enhanced Raman Scattering of ZnO Quantum Dots with Au and Ag Nanoparticles. <i>ACS Nano</i> , 2013, 7, 3420-3426.	7.3	74
10	Size-Dependent Optical Properties of Colloidal ZnO Nanoparticles Charged by Photoexcitation. <i>Journal of Physical Chemistry C</i> , 2010, 114, 220-225.	1.5	73
11	Quantum Size Effects in Semiconductor Photocatalysis. <i>Theoretical and Experimental Chemistry</i> , 2005, 41, 207-228.	0.2	64
12	Synthesis and Characterization of White-Emitting CdS Quantum Dots Stabilized with Polyethylenimine. <i>Journal of Physical Chemistry C</i> , 2010, 114, 22478-22486.	1.5	63
13	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, 133-141.	5.0	53
14	Inherently Broadband Photoluminescence in Ag <sup>+</sup> In <sup>3+</sup> S/ZnS Quantum Dots Observed in Ensemble and Single-Particle Studies. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2632-2641.	1.5	53
15	Spectral and luminescent properties of ZnO@SiO <sub>2</sub> core-shell nanoparticles with size-selected ZnO cores. <i>RSC Advances</i> , 2014, 4, 63393-63401.	1.7	52
16	Photocatalytic growth of CdS, PbS, and Cu <sub>x</sub> S nanoparticles on the nanocrystalline TiO <sub>2</sub> films. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009, 203, 137-144.	2.0	51
17	The influence of shell parameters on phonons in core-shell nanoparticles: a resonant Raman study. <i>Nanotechnology</i> , 2009, 20, 365704.	1.3	51
18	Luminescence and photoelectrochemical properties of size-selected aqueous copper-doped Ag <sup>+</sup> In <sup>3+</sup> S quantum dots. <i>RSC Advances</i> , 2018, 8, 7550-7557.	1.7	51

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19	Raman and Infrared Phonon Spectra of Ultrasmall Colloidal CdS Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2014, 118, 19492-19497.	1.5	50
20	Non-stoichiometric Cu <sup>2+</sup> /In <sup>3+</sup> /S@ZnS nanoparticles produced in aqueous solutions as light harvesters for liquid-junction photoelectrochemical solar cells. <i>RSC Advances</i> , 2016, 6, 100145-100157.	1.7	48
21	Photochemical synthesis of ZnO/Ag nanocomposites. <i>Journal of Nanoparticle Research</i> , 2007, 9, 427-440.	0.8	46
22	Quantum Size Effects in the Photonics of Semiconductor Nanoparticles. <i>Theoretical and Experimental Chemistry</i> , 2005, 41, 67-91.	0.2	45
23	Zinc sulfide nanoparticles: Spectral properties and photocatalytic activity in metals reduction reactions. <i>Journal of Nanoparticle Research</i> , 2007, 9, 1027-1039.	0.8	44
24	Green Aqueous Synthesis and Advanced Spectral Characterization of Size-Selected Cu <sub>2</sub> ZnSnS <sub>4</sub> Nanocrystal Inks. <i>Scientific Reports</i> , 2018, 8, 13677.	1.6	39
25	Annealing-induced structural transformation of gelatin-capped Se nanoparticles. <i>Solid State Communications</i> , 2008, 145, 288-292.	0.9	37
26	Origin of the Broadband Photoluminescence of Pristine and Cu <sup>+</sup> /Ag <sup>+</sup> -Doped Ultrasmall CdS and CdSe/CdS Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2018, 122, 10267-10277.	1.5	37
27	Raman characterization of Cu <sub>2</sub> ZnSnS <sub>4</sub> nanocrystals: phonon confinement effect and formation of Cu <sub>x</sub> S phases. <i>RSC Advances</i> , 2018, 8, 30736-30746.	1.7	37
28	Influence of colloidal graphene oxide on photocatalytic activity of nanocrystalline TiO <sub>2</sub> in gas-phase ethanol and benzene oxidation. <i>Applied Catalysis B: Environmental</i> , 2014, 148-149, 543-549.	10.8	35
29	Graphitic carbon nitride nanotubes: a new material for emerging applications. <i>RSC Advances</i> , 2020, 10, 34059-34087.	1.7	35
30	A dynamic light scattering study of photochemically reduced colloidal graphene oxide. <i>Colloid and Polymer Science</i> , 2014, 292, 539-546.	1.0	34
31	Semiconductor photocatalytic systems for the production of hydrogen by the action of visible light. <i>Theoretical and Experimental Chemistry</i> , 2009, 45, 209-233.	0.2	33
32	Enhanced Raman scattering of ZnO nanocrystals in the vicinity of gold and silver nanostructured surfaces. <i>Optics Express</i> , 2016, 24, A168.	1.7	32
33	Photochemical reduction of graphene oxide in colloidal solution. <i>Theoretical and Experimental Chemistry</i> , 2012, 48, 2-13.	0.2	31
34	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.	2.3	28
35	Photochemical formation and photoelectrochemical properties of TiO <sub>2</sub> /Sb <sub>2</sub> S <sub>3</sub> heterostructures. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2015, 303-304, 8-16.	2.0	28
36	Luminescent Ag-doped In <sub>2</sub> S <sub>3</sub> nanoparticles stabilized by mercaptoacetate in water and glycerol. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	28

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37	Photoinitiation of acrylamide polymerization by Fe <sub>2</sub> O <sub>3</sub> nanoparticles. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 192, 98-104.	2.0	27
38	Photocatalytic Oxidation of Hydrosulfide Ions by Molecular Oxygen Over Cadmium Sulfide Nanoparticles. Journal of Nanoparticle Research, 2004, 6, 149-158.	0.8	25
39	Electron energy factors in photocatalytic methylviologen reduction in the presence of semiconductor nanocrystals. Journal of Photochemistry and Photobiology A: Chemistry, 2010, 210, 209-214.	2.0	25
40	Raman and X-ray Photoemission Identification of Colloidal Metal Sulfides as Potential Secondary Phases in Nanocrystalline Cu <sub>2</sub> ZnSnS <sub>4</sub> Photovoltaic Absorbers. ACS Applied Nano Materials, 2020, 3, 5706-5717.	2.4	25
41	Preparation and optical properties of highly luminescent colloidal single-layer carbon nitride. RSC Advances, 2015, 5, 46843-46849.	1.7	24
42	A spectroscopic and photochemical study of Ag <sup>+</sup> , Cu <sup>2+</sup> , Hg <sup>2+</sup> , and Bi <sup>3+</sup> -doped Cd Zn <sup>1-x</sup> S nanoparticles. Journal of Colloid and Interface Science, 2010, 345, 515-523.	5.0	23
43	Enhancement of the photoluminescence in CdSe quantum dot-polyvinyl alcohol composite by light irradiation. Applied Surface Science, 2013, 281, 118-122.	3.1	23
44	Photopolymerization of acrylamide induced by colloidal graphene oxide. Journal of Photochemistry and Photobiology A: Chemistry, 2013, 256, 1-6.	2.0	23
45	Lead-free hybrid perovskites for photovoltaics. Beilstein Journal of Nanotechnology, 2018, 9, 2209-2235.	1.5	23
46	Synthesis and luminescent properties of ultrasmall colloidal CdS nanoparticles stabilized by Cd(II) complexes with ammonia and mercaptoacetate. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	22
47	A new route to very stable water-soluble ultra-small core/shell CdSe/CdS quantum dots. Nano Structures Nano Objects, 2018, 13, 146-154.	1.9	22
48	Spectral and Luminescent Characteristics of Products from Exfoliation of Graphitic Carbon Nitride Produced at Various Temperatures. Theoretical and Experimental Chemistry, 2015, 51, 243-251.	0.2	21
49	Oscillations of light absorption in 2D macroporous silicon structures with surface nanocoatings. Applied Surface Science, 2011, 257, 3331-3335.	3.1	20
50	Photocatalytic Selective Oxidation of Organic Compounds in Graphitic Carbon Nitride Systems: A Review. Theoretical and Experimental Chemistry, 2019, 55, 147-172.	0.2	20
51	One-step photostructuring of multiple hydrogel arrays for compartmentalized enzyme reactions in microfluidic devices. Reaction Chemistry and Engineering, 2019, 4, 2141-2155.	1.9	20
52	Nanocrystalline TiO <sub>2</sub> /Au films: Photocatalytic deposition of gold nanocrystals and plasmonic enhancement of Raman scattering from titania. Materials Science in Semiconductor Processing, 2015, 37, 3-8.	1.9	19
53	Band-gap and sub-band-gap photoelectrochemical processes at nanocrystalline CdS grown on ZnO by successive ionic layer adsorption and reaction method. Thin Solid Films, 2015, 589, 145-152.	0.8	19
54	Photochemical Synthesis, Spectral-Optical and Electrophysical Properties of Composite Nanoparticles of ZnO/Ag. Theoretical and Experimental Chemistry, 2004, 40, 98-104.	0.2	18

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55	Morphology, optical, and photoelectrochemical properties of electrodeposited nanocrystalline ZnO films sensitized with Cd x Zn <sup>1-x</sup> S nanoparticles. <i>Journal of Materials Science</i> , 2013, 48, 7764-7773.	1.7	18
56	Optical characterization of the AgInS <sub>2</sub> nanocrystals synthesized in aqueous media under stoichiometric conditions. <i>Materials Science in Semiconductor Processing</i> , 2015, 37, 135-142.	1.9	18
57	Photocatalytic Hydrogen Evolution Under Visible Light Illumination in Systems Based on Graphitic Carbon Nitride. <i>Theoretical and Experimental Chemistry</i> , 2018, 54, 1-35.	0.2	18
58	Nanosecond and microsecond decay of photogenerated charges in Cd <sub>x</sub> Zn <sup>1-x</sup> S nanoparticles. <i>Theoretical and Experimental Chemistry</i> , 2007, 43, 297-305.	0.2	17
59	Photochemical formation of semiconducting nanostructures. <i>Theoretical and Experimental Chemistry</i> , 2008, 44, 205-231.	0.2	17
60	Photocatalytic H <sub>2</sub> 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.	2.2	17
61	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.	1.5	17
62	Temperature-Dependent Photoluminescence of Silver-Indium-Sulfide Nanocrystals in Aqueous Colloidal Solutions. <i>ChemPhysChem</i> , 2019, 20, 1640-1648.	1.0	17
63	Phonon Spectra of Strongly Luminescent Nonstoichiometric Ag-In-S, Cu-In-S, and Hg-In-S Nanocrystals of Small Size. <i>Journal of Physical Chemistry C</i> , 2020, 124, 15511-15522.	1.5	17
64	Photocatalytic formation of porous CdS/ZnO nanospheres and CdS nanotubes. <i>Theoretical and Experimental Chemistry</i> , 2007, 43, 229-234.	0.2	16
65	Characterization of semiconductor core-shell nanoparticles by resonant Raman scattering and photoluminescence spectroscopy. <i>Applied Surface Science</i> , 2008, 255, 725-727.	3.1	16
66	Ultra-small aqueous glutathione-capped Ag-In-Se quantum dots: luminescence and vibrational properties. <i>RSC Advances</i> , 2020, 10, 42178-42193.	1.7	16
67	Role of quantum-sized effects on the cathodic photocorrosion of ZnO nanoparticles in ethanol. <i>Theoretical and Experimental Chemistry</i> , 2004, 40, 378-382.	0.2	15
68	Photocatalytic properties of rutile nanoparticles obtained via low temperature route from titanate nanotubes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 218, 231-238.	2.0	15
69	Mercury-indium-sulfide nanocrystals: A new member of the family of ternary in based chalcogenides. <i>Journal of Chemical Physics</i> , 2019, 151, 144701.	1.2	15
70	Composition-Dependent Optical Band Bowing, Vibrational, and Photochemical Behavior of Aqueous Glutathione-Capped (Cu, Ag)-In-S Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2020, 124, 19375-19388.	1.5	15
71	Title is missing!. <i>Theoretical and Experimental Chemistry</i> , 2003, 39, 158-165.	0.2	14
72	Spectral, Optical, and Photocatalytic Characteristics of Quantum-Sized Particles of CdTe. <i>Theoretical and Experimental Chemistry</i> , 2004, 40, 220-225.	0.2	14

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73	Photopolymerization of water-soluble acrylic monomers induced by colloidal CdS and Cd x Zn1â€‰x S nanoparticles. Colloid and Polymer Science, 2008, 286, 489-498.	1.0	14
74	Inorganic photoelectrochemical solar cells based on nanocrystalline ZnO/ZnSe and ZnO/CuSe heterostructures. Catalysis Today, 2014, 230, 227-233.	2.2	14
75	Brightly luminescent colloidal Agâ€‰Inâ€‰S nanoparticles stabilized in aqueous solutions by branched polyethyleneimine. Journal of Luminescence, 2016, 178, 295-300.	1.5	14
76	Nondestructive characterization of polymeric components of silicon solar modules by near-infrared absorption spectroscopy (NIRA). Solar Energy Materials and Solar Cells, 2020, 216, 110702.	3.0	14
77	High-Throughput Time-Resolved Photoluminescence Study of Composition- and Size-Selected Aqueous Agâ€‰Inâ€‰S Quantum Dots. Journal of Physical Chemistry C, 2021, 125, 12185-12197.	1.5	13
78	PV modules and their backsheets - A case study of a Multi-MW PV power station. Solar Energy Materials and Solar Cells, 2021, 231, 111295.	3.0	13
79	â€œGreenâ€‰synthesis of highly luminescent lead-free Cs<sub>2</sub>Ag<sub>x</sub>Na<sub>1-x</sub>Bi<sub>y</sub>In<sub>1-y</sub>Cl<sub>3</sub> perovskites. Journal of Materials Chemistry C, 2022, 10, 9938-9944.		
80	Photocatalytic production of hydrogen from waterâ€‰alcohol media with the participation of mesoporous TiO2. Theoretical and Experimental Chemistry, 2009, 45, 343-348.	0.2	12
81	Gelatin-templated mesoporous titania for photocatalytic air treatment and application in metal chalcogenide nanoparticle-sensitized solar cells. Photochemical and Photobiological Sciences, 2013, 12, 621-625.	1.6	12
82	Photoelectrochemical and Raman characterization of nanocrystalline CdS grown on ZnO by successive ionic layer adsorption and reaction method. Thin Solid Films, 2014, 562, 56-62.	0.8	12
83	Raman study of flash-lamp annealed aqueous Cu<sub>2</sub>ZnSn<sub>4</sub> nanocrystals. Beilstein Journal of Nanotechnology, 2019, 10, 222-227.	1.5	12
84	High-Throughput Robotic Synthesis and Photoluminescence Characterization of Aqueous Multinary Copperâ€‰Silver Indium Chalcogenide Quantum Dots. Particle and Particle Systems Characterization, 2021, 38, 2100169.	1.2	12
85	Optical studies of CdSe/HgSe and CdSe/Ag2Se core/shell nanoparticles embedded in gelatin. Journal of Physics Condensed Matter, 2008, 20, 455203.	0.7	11
86	The effect of bio-conjugation on aging of the photoluminescence in CdSeTeâ€‰ZnS coreâ€‰shell quantum dots. Superlattices and Microstructures, 2012, 51, 353-362.	1.4	11
87	Wet leakage resistance development of modules with various backsheet types. Progress in Photovoltaics: Research and Applications, 2022, 30, 938-947.	4.4	11
88	Photocatalysis of the Reduction of Cd2+Ions by CdS Nanoparticles in Isopropyl Alcohol. Theoretical and Experimental Chemistry, 2003, 39, 341-346.	0.2	10
89	Photocatalytic production of hydrogen in systems based on Cd x Zn1â€‰x S/NiO nanostructures. Theoretical and Experimental Chemistry, 2009, 45, 12-22.	0.2	10
90	Photoassisted formation of CuxS-based cathodes for CdS-sensitized solar cells with S2â€‰/Sx2â€‰ electrolyte. Photochemical and Photobiological Sciences, 2015, 14, 942-947.	1.6	10

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91	Photocatalytic and photoelectrochemical properties of hierarchical mesoporous TiO <sub>2</sub> microspheres produced using a crown template. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 334, 26-35.	2.0	10
92	Solar Light Harvesting with Nanocrystalline Semiconductors. <i>Lecture Notes in Quantum Chemistry II</i> , 2018, , .	0.3	10
93	Photoinduced Electron Transfer between CdS and CdTe Nanoparticles in Colloidal Solutions. <i>Theoretical and Experimental Chemistry</i> , 2004, 40, 287-292.	0.2	9
94	Effect of the Method of Preparation of ZnO/CdS and TiO <sub>2</sub> /CdS Film Nanoheterostructures on Their Photoelectrochemical Properties. <i>Theoretical and Experimental Chemistry</i> , 2013, 49, 165-171.	0.2	9
95	Structure, optical properties and visible-light-induced photochemical activity of nanocrystalline ZnO films deposited by atomic layer deposition onto Si(100). <i>Thin Solid Films</i> , 2014, 573, 128-133.	0.8	9
96	Photochemical Processes Involving Graphene Oxide. <i>Theoretical and Experimental Chemistry</i> , 2015, 51, 1-29.	0.2	9
97	Photoelectrochemical Characteristics of Solar Cell Based on FTO/ZnO/CdS (Photoanode) and FTO/ZnO/Cu x S (Counter Electrode) Heterostructures Formed by Photocatalytic Methods. <i>Theoretical and Experimental Chemistry</i> , 2015, 51, 203-209.	0.2	9
98	Light-emitting structures of CdS nanocrystals in oxidized macroporous silicon. <i>Applied Surface Science</i> , 2016, 388, 288-293.	3.1	9
99	Raman and X-ray Photoelectron Spectroscopic Study of Aqueous Thiol-Capped Ag-Zn-Sn-S Nanocrystals. <i>Materials</i> , 2021, 14, 3593.	1.3	9
100	Photocatalytic Synthesis of Composite CdSe/CdS Nanoparticles. <i>Theoretical and Experimental Chemistry</i> , 2005, 41, 181-186.	0.2	8
101	Preparation and spectral properties of high-efficiency luminescent polyethylenimine-stabilized CdS quantum dots. <i>Theoretical and Experimental Chemistry</i> , 2010, 46, 233-238.	0.2	8
102	Dynamics of the radiative recombination of charge carriers in CdS nanoparticles stabilized with polyethylenimine. <i>Theoretical and Experimental Chemistry</i> , 2010, 46, 273-278.	0.2	8
103	Preparation and optical properties of polyethylenimine-stabilized colloidal CdSe and CdS x Se1â€“x quantum dots. <i>Theoretical and Experimental Chemistry</i> , 2011, 46, 416-421.	0.2	8
104	Graphene Oxide Composites with Silver Nanoparticles: Photochemical Formation and Electrocatalytic Activity in the Oxidation of Methanol and Formaldehyde. <i>Theoretical and Experimental Chemistry</i> , 2014, 50, 155-161.	0.2	8
105	Morphology, optical and catalytic properties of polyethylenimine-stabilized Au nanoparticles. <i>Journal of Molecular Catalysis A</i> , 2015, 398, 35-41.	4.8	8
106	Graded ZnS/ZnSxO1â€“x heterostructures produced by oxidative photolysis of zinc sulfide: Structure, optical properties and photocatalytic evolution of molecular hydrogen. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 329, 213-220.	2.0	8
107	Active Plasmonic Colloid-to-Film-Coupled Cavities for Tailored Lightâ€“Matter Interactions. <i>Journal of Physical Chemistry C</i> , 2019, 123, 6745-6752.	1.5	8
108	Distinguishing between different types of multiâ€“layered PETâ€“based backsheets of PV modules with nearâ€“infrared spectroscopy. <i>Progress in Photovoltaics: Research and Applications</i> , 2022, 30, 859-868.	4.4	8



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109	Quantum-sized effects and the nature of the primary photoprocesses in copper(I) and copper(II) sulfide nanoparticles. <i>Theoretical and Experimental Chemistry</i> , 1999, 35, 89-94.	0.2	7
110	Photocatalysis of the Release of Molecular Hydrogen from Aqueous Solutions of Sodium Sulfite by Composite CdS/Ni Nanoparticles. <i>Theoretical and Experimental Chemistry</i> , 2004, 40, 1-6.	0.2	7
111	Tuning the surface plasmon resonance in gold nanocrystals with single layer carbon nitride. <i>RSC Advances</i> , 2019, 9, 444-449.	1.7	7
112	Photochemical Synthesis and Spectral-Optical Characteristics of ZnO/Cu and ZnO/Ag/Cu Nanoheterostructures. <i>Theoretical and Experimental Chemistry</i> , 2004, 40, 149-153.	0.2	6
113	Structural and optical characteristics of $Cd_xZn_{1-x}S$ nanoparticles stabilized in aqueous solutions of polymers. <i>Theoretical and Experimental Chemistry</i> , 2006, 42, 181-185.	0.2	6
114	Effect of the method of production of TiO <sub>2</sub> /CdS nanohetero film structures on the effectiveness of photoinduced charge separation. <i>Theoretical and Experimental Chemistry</i> , 2009, 45, 302-307.	0.2	6
115	Morphology, photochemical and photocatalytic properties of nanocrystalline zinc oxide films. <i>Theoretical and Experimental Chemistry</i> , 2012, 48, 331-337.	0.2	6
116	Photocatalytic and Photoelectrochemical Characteristics of Mesoporous Titanium Dioxide Microspheres. <i>Theoretical and Experimental Chemistry</i> , 2015, 51, 183-190.	0.2	6
117	Semiconductor Photocatalytic Systems for the Reductive Conversion of CO <sub>2</sub> and N <sub>2</sub> . <i>Theoretical and Experimental Chemistry</i> , 2018, 53, 359-386.	0.2	6
118	CdS Nanoparticle Photocatalysis of the Chain Oxidation of Sulfite Ions by Molecular Oxygen. <i>Theoretical and Experimental Chemistry</i> , 2003, 39, 235-241.	0.2	5
119	Synthesis and Photophysical Properties of CuS Nanoparticles Stabilized by Sodium Polyphosphate. <i>Theoretical and Experimental Chemistry</i> , 2003, 39, 303-308.	0.2	5
120	Photocatalytic activity of a mesoporous TiO <sub>2</sub> /Ni composite in the generation of hydrogen from aqueous ethanol systems. <i>Theoretical and Experimental Chemistry</i> , 2005, 41, 26-31.	0.2	5
121	Photochemical reduction of sulfur in the presence of ZnO nanoparticles in ethanol. <i>Theoretical and Experimental Chemistry</i> , 2010, 46, 218-224.	0.2	5
122	Modification by thermal annealing of the luminescent characteristics of CdSe quantum dots in gelatin films. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012, 9, 1779-1782.	0.8	5
123	Nanoparticles of Ag-In-S and Cu-In-S in Aqueous Media: Preparation, Spectral and Luminescent Properties. <i>Theoretical and Experimental Chemistry</i> , 2017, 53, 338-348.	0.2	5
124	Single-layer carbon nitride: synthesis, structure, photophysical/photochemical properties, and applications. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 20745-20764.	1.3	5
125	Spontaneous alloying of ultrasmall non-stoichiometric Ag <sub>1-x</sub> In <sub>x</sub> S and Cu <sub>1-x</sub> In <sub>x</sub> S quantum dots in aqueous colloidal solutions. <i>RSC Advances</i> , 2021, 11, 21145-21152.	1.7	5
126	Photoinduced Enhancement of Photoluminescence of Colloidal II-VI Nanocrystals in Polymer Matrices. <i>Nanomaterials</i> , 2020, 10, 2565.	1.9	5



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127	Spectro-Optical and Photochemical Properties of ZnS Nanoparticles. Theoretical and Experimental Chemistry, 2005, 41, 111-116.	0.2	4
128	Optical Absorption Processes in CdSe Nanocrystals Embedded in Silicate Glass and Organic Polymer Matrices Under 7-MeV Electron Irradiation. Journal of Nanoscience and Nanotechnology, 2008, 8, 806-811.	0.9	4
129	Structured Films of Cu x S " Counter Electrodes for Solar Cells Based on FTO/ZnO/CdS Heterostructures and Sulfide/Polysulfide Redox Couple. Theoretical and Experimental Chemistry, 2013, 49, 213-218.	0.2	4
130	Quenching of photoluminescence of colloidal ZnO nanocrystals by nitronyl nitroxide radicals. Physica B: Condensed Matter, 2014, 453, 127-130.	1.3	4
131	The Photoluminescence Properties of CuInS <sub>2</sub> and AgInS <sub>2</sub> Nanocrystals Synthesized in Aqueous Solutions. ECS Transactions, 2015, 66, 171-179.	0.3	4
132	Influence of Thermal and Photochemical Treatments on Structure and Optical Properties of Single-Layer Carbon Nitride. Physica Status Solidi (B): Basic Research, 2019, 256, 1800279.	0.7	4
133	Room-Temperature Electron Paramagnetic Resonance Study of a Copper-Related Defect in Cu <sub>2</sub> ZnSnS <sub>4</sub> Colloidal Nanocrystals. Journal of Physical Chemistry C, 2021, 125, 9923-9929.	1.5	4
134	Oxidation of Polysulfide Ions Induced by CdS Nanoparticles under Pulsed Photolysis Conditions. Theoretical and Experimental Chemistry, 2004, 40, 130-135.	0.2	3
135	Photoinduced variations in the size of nanoparticles of CdS in colloidal solutions. Theoretical and Experimental Chemistry, 2007, 43, 184-190.	0.2	3
136	Photocatalytic Reduction of Zn(II) with Participation of ZnS Nanoparticles. Theoretical and Experimental Chemistry, 2005, 41, 241-246.	0.2	2
137	Photocatalysis by ZnS nanoparticles of the formation of ZnS/Au heterostructure in the reduction of complex ions of gold. Theoretical and Experimental Chemistry, 2005, 41, 359-364.	0.2	2
138	Features of formation of CdSe nanoparticles in aqueous sodium polyphosphate solutions. Theoretical and Experimental Chemistry, 2006, 42, 113-118.	0.2	2
139	Effect of temperature on the optical properties of polyethylenimine-stabilized CdS nanoparticles. Theoretical and Experimental Chemistry, 2012, 48, 106-112.	0.2	2
140	Nanoparticles of Graphitic Carbon Nitride: Stabilization in Aqueous Solutions, Spectral and Luminescent Properties. Theoretical and Experimental Chemistry, 2014, 50, 291-298.	0.2	2
141	Photoluminescence and structural properties of CdSe quantum dot-gelatin composite films. Physica B: Condensed Matter, 2014, 453, 86-91.	1.3	2
142	Photoelectrochemical Properties of Titanium Dioxide Nanoheterostructures with Low-Dimensional Cadmium Selenide Particles. Theoretical and Experimental Chemistry, 2016, 52, 152-162.	0.2	2
143	Identification of solar module behavior originating from backsheet failure - from lab studies to field tests. , 2021, , .		2
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