

Oleksandr L Stroyuk

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

163
papers

2,704
citations

27
h-index

44
g-index

170
ext. papers

3,061
ext. citations

3.3
avg, IF

5.28
L-index

#	Paper	IF	Citations
163	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
162	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
161	Raman and X-ray Photoelectron Spectroscopic Study of Aqueous Thiol-Capped Ag-Zn-Sn-S Nanocrystals. <i>Materials</i> , 2021 , 14,	3.5	2
160	High-Throughput Time-Resolved Photoluminescence Study of Composition- and Size-Selected Aqueous AgInS Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 12185-12197	3.8	3
159	Single-layer carbon nitride: synthesis, structure, photophysical/photochemical properties, and applications. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 20745-20764	3.6	1
158	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
157	PV modules and their backsheets - A case study of a Multi-MW PV power station. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 231, 111295	6.4	2
156	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
155	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	5.6	12
154	Phonon Spectra of Strongly Luminescent Nonstoichiometric AgInS, CuInS, and HgInS Nanocrystals of Small Size. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 15511-15522	3.8	5
153	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
152	Photoinduced Enhancement of Photoluminescence of Colloidal II-VI Nanocrystals in Polymer Matrices. <i>Nanomaterials</i> , 2020 , 10,	5.4	2
151	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
150	Nondestructive characterization of polymeric components of silicon solar modules by near-infrared absorption spectroscopy (NIRA). <i>Solar Energy Materials and Solar Cells</i> , 2020 , 216, 110702	6.4	2
149	Composition-Dependent Optical Band Bowing, Vibrational, and Photochemical Behavior of Aqueous Glutathione-Capped (Cu, Ag)InS Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 19375-19388	3.8	6
148	Graphitic carbon nitride nanotubes: a new material for emerging applications.. <i>RSC Advances</i> , 2020 , 10, 34059-34087	3.7	19
147	Raman study of flash-lamp annealed aqueous CuZnSnS nanocrystals. <i>Beilstein Journal of Nanotechnology</i> , 2019 , 10, 222-227	3	7

146	Temperature-Dependent Photoluminescence of Silver-Indium-Sulfide Nanocrystals in Aqueous Colloidal Solutions. <i>ChemPhysChem</i> , 2019 , 20, 1640-1648	3.2	12
145	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
144	Photocatalytic Selective Oxidation of Organic Compounds in Graphitic Carbon Nitride Systems: A Review. <i>Theoretical and Experimental Chemistry</i> , 2019 , 55, 147-172	1.3	12
143	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
142	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
141	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
140	One-step photostructuring of multiple hydrogel arrays for compartmentalized enzyme reactions in microfluidic devices. <i>Reaction Chemistry and Engineering</i> , 2019 , 4, 2141-2155	4.9	12
139	Inherently Broadband Photoluminescence in AgInS/ZnS Quantum Dots Observed in Ensemble and Single-Particle Studies. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 2632-2641	3.8	35
138	Tuning the surface plasmon resonance in gold nanocrystals with single layer carbon nitride.. <i>RSC Advances</i> , 2018 , 9, 444-449	3.7	5
137	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
136	Semiconductor Photocatalytic Systems for the Reductive Conversion of CO ₂ and N ₂ . <i>Theoretical and Experimental Chemistry</i> , 2018 , 53, 359-386	1.3	5
135	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
134	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
133	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
132	Photocatalytic Hydrogen Evolution Under Visible Light Illumination in Systems Based on Graphitic Carbon Nitride. <i>Theoretical and Experimental Chemistry</i> , 2018 , 54, 1-35	1.3	13
131	Lead-free hybrid perovskites for photovoltaics. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 2209-2235	3	14
130	Solar Light Harvesting with Nanocrystalline Semiconductors. <i>Lecture Notes in Quantum Chemistry II</i> , 2018 ,	0.6	9
129	Semiconductor-Based Photocatalytic Systems for the Reductive Conversion of CO ₂ and N ₂ . <i>Lecture Notes in Quantum Chemistry II</i> , 2018 , 127-160	0.6	1

128	Basic Concepts of the Photochemistry of Semiconductor Nanoparticles. <i>Lecture Notes in Quantum Chemistry II</i> , 2018 , 1-37	0.6	
127	Semiconductor-Based Photocatalytic Systems for the Solar-Light-Driven Water Splitting and Hydrogen Evolution. <i>Lecture Notes in Quantum Chemistry II</i> , 2018 , 39-125	0.6	1
126	Semiconductor-Based Liquid-Junction Photoelectrochemical Solar Cells. <i>Lecture Notes in Quantum Chemistry II</i> , 2018 , 161-240	0.6	
125	Synthesis of Nanocrystalline Photo-Active Semiconductors. <i>Lecture Notes in Quantum Chemistry II</i> , 2018 , 241-318	0.6	
124	Probing with Light Optical Methods in Studies of Nanocrystalline Semiconductors. <i>Lecture Notes in Quantum Chemistry II</i> , 2018 , 319-371	0.6	
123	Photocatalytic Formation of Composite Electrodes for Semiconductor-Sensitized Solar Cells 2018 , 425-458		
122	Raman characterization of CuZnSnS nanocrystals: phonon confinement effect and formation of Cu S phases.. <i>RSC Advances</i> , 2018 , 8, 30736-30746	3.7	25
121	"Green" Aqueous Synthesis and Advanced Spectral Characterization of Size-Selected CuZnSnS Nanocrystal Inks. <i>Scientific Reports</i> , 2018 , 8, 13677	4.9	25
120	Solar light harvesting with multinary metal chalcogenide nanocrystals. <i>Chemical Society Reviews</i> , 2018 , 47, 5354-5422	58.5	122
119	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
118	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
117	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	1.3	3
116	Photoelectrochemical Properties of Nanoheterostructures Based on Titanium Dioxide and Ag-In-S Quantum Dots Produced by Size-Selective Precipitation. <i>Theoretical and Experimental Chemistry</i> , 2017 , 53, 251-258	1.3	
115	Photocatalytic and photoelectrochemical properties of hierarchical mesoporous TiO ₂ microspheres produced using a crown template. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017 , 334, 26-35	4.7	8
114	Photoelectrochemical Properties of Titanium Dioxide Nanoheterostructures with Low-Dimensional Cadmium Selenide Particles. <i>Theoretical and Experimental Chemistry</i> , 2016 , 52, 152-162	1.3	2
113	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
112	Brightly luminescent colloidal AgInS nanoparticles stabilized in aqueous solutions by branched polyethyleneimine. <i>Journal of Luminescence</i> , 2016 , 178, 295-300	3.8	11
111	Light-emitting structures of CdS nanocrystals in oxidized macroporous silicon. <i>Applied Surface Science</i> , 2016 , 388, 288-293	6.7	8

110	Effect of Post-Synthesis Heat Treatment of ZnO Nanoparticles in DMF on Their Size and Spectral and Luminescent Properties. <i>Theoretical and Experimental Chemistry</i> , 2016 , 51, 358-365	1.3	
109	Enhanced Raman scattering of ZnO nanocrystals in the vicinity of gold and silver nanostructured surfaces. <i>Optics Express</i> , 2016 , 24, A168-73	3.3	20
108	Graded ZnS/ZnS _x O _{1-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	4.7	7
107	Photoassisted formation of Cu(x)S-based cathodes for CdS-sensitized solar cells with S(2-)/S(x)(2-) electrolyte. <i>Photochemical and Photobiological Sciences</i> , 2015 , 14, 942-7	4.2	10
106	Photochemical Processes Involving Graphene Oxide. <i>Theoretical and Experimental Chemistry</i> , 2015 , 51, 1-29	1.3	8
105	Band-gap and sub-band-gap photoelectrochemical processes at nanocrystalline CdS grown on ZnO by successive ionic layer adsorption and reaction method. <i>Thin Solid Films</i> , 2015 , 589, 145-152	2.2	17
104	Preparation and optical properties of highly luminescent colloidal single-layer carbon nitride. <i>RSC Advances</i> , 2015 , 5, 46843-46849	3.7	22
103	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
102	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	1.3	8
101	Spectral and Luminescent Characteristics of Products from Exfoliation of Graphitic Carbon Nitride Produced at Various Temperatures. <i>Theoretical and Experimental Chemistry</i> , 2015 , 51, 243-251	1.3	16
100	Photocatalytic and Photoelectrochemical Characteristics of Mesoporous Titanium Dioxide Microspheres. <i>Theoretical and Experimental Chemistry</i> , 2015 , 51, 183-190	1.3	5
99	Morphology, optical and catalytic properties of polyethyleneimine-stabilized Au nanoparticles. <i>Journal of Molecular Catalysis A</i> , 2015 , 398, 35-41		8
98	Optical characterization of the AgInS ₂ nanocrystals synthesized in aqueous media under stoichiometric conditions. <i>Materials Science in Semiconductor Processing</i> , 2015 , 37, 135-142	4.3	15
97	The Photoluminescence Properties of CuInS ₂ and AgInS ₂ Nanocrystals Synthesized in Aqueous Solutions. <i>ECS Transactions</i> , 2015 , 66, 171-179	1	3
96	Photochemical formation and photoelectrochemical properties of TiO ₂ /Sb ₂ S ₃ heterostructures. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2015 , 303-304, 8-16	4.7	26
95	Nanocrystalline TiO ₂ /Au films: Photocatalytic deposition of gold nanocrystals and plasmonic enhancement of Raman scattering from titania. <i>Materials Science in Semiconductor Processing</i> , 2015 , 37, 3-8	4.3	15
94	Influence of local electric fields on the photoluminescence of CdS nanocrystals on the oxidized macroporous silicon surface. <i>Himia, Fizika Ta Tehnologija Poverhni</i> , 2015 , 6, 489-497	0.4	
93	Influence of colloidal graphene oxide on photocatalytic activity of nanocrystalline TiO ₂ in gas-phase ethanol and benzene oxidation. <i>Applied Catalysis B: Environmental</i> , 2014 , 148-149, 543-549	21.8	31

92	Photoelectrochemical and Raman characterization of nanocrystalline CdS grown on ZnO by successive ionic layer adsorption and reaction method. <i>Thin Solid Films</i> , 2014 , 562, 56-62	2.2	9
91	Photoluminescence and structural properties of CdSe quantum dot/gelatin composite films. <i>Physica B: Condensed Matter</i> , 2014 , 453, 86-91	2.8	2
90	Inorganic photoelectrochemical solar cells based on nanocrystalline ZnO/ZnSe and ZnO/CuSe heterostructures. <i>Catalysis Today</i> , 2014 , 230, 227-233	5.3	12
89	A dynamic light scattering study of photochemically reduced colloidal graphene oxide. <i>Colloid and Polymer Science</i> , 2014 , 292, 539-546	2.4	27
88	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	1.3	6
87	Raman and Infrared Phonon Spectra of Ultrasmall Colloidal CdS Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 19492-19497	3.8	43
86	Quenching of photoluminescence of colloidal ZnO nanocrystals by nitronyl nitroxide radicals. <i>Physica B: Condensed Matter</i> , 2014 , 453, 127-130	2.8	4
85	Synthesis and luminescent properties of ultrasmall colloidal CdS nanoparticles stabilized by Cd(II) complexes with ammonia and mercaptoacetate. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	18
84	Effect of the Degree of Photoreduction of Graphene Oxide on its Ability to Stabilize Graphite and Carbon Nanotubes in Aqueous Colloidal Solutions. <i>Theoretical and Experimental Chemistry</i> , 2014 , 50, 282-290	1.3	0
83	Nanoparticles of Graphitic Carbon Nitride: Stabilization in Aqueous Solutions, Spectral and Luminescent Properties. <i>Theoretical and Experimental Chemistry</i> , 2014 , 50, 291-298	1.3	2
82	Spectral and luminescent properties of ZnO/BiO ₂ core/shell nanoparticles with size-selected ZnO cores. <i>RSC Advances</i> , 2014 , 4, 63393-63401	3.7	42
81	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	2.2	6
80	Morphology, optical, and photoelectrochemical properties of electrodeposited nanocrystalline ZnO films sensitized with Cd x Zn _{1-x} S nanoparticles. <i>Journal of Materials Science</i> , 2013 , 48, 7764-7773	4.3	13
79	Effect of the Method of Preparation of ZnO/CdS and TiO ₂ /CdS Film Nanoheterostructures on Their Photoelectrochemical Properties. <i>Theoretical and Experimental Chemistry</i> , 2013 , 49, 165-171	1.3	8
78	Structured Films of Cu x S /Counter Electrodes for Solar Cells Based on FTO/ZnO/CdS Heterostructures and Sulfide/Polysulfide Redox Couple. <i>Theoretical and Experimental Chemistry</i> , 2013 , 49, 213-218	1.3	3
77	Enhancement of the photoluminescence in CdSe quantum dot/polyvinyl alcohol composite by light irradiation. <i>Applied Surface Science</i> , 2013 , 281, 118-122	6.7	19
76	Photopolymerization of acrylamide induced by colloidal graphene oxide. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013 , 256, 1-6	4.7	20
75	Nonresonant surface-enhanced Raman scattering of ZnO quantum dots with Au and Ag nanoparticles. <i>ACS Nano</i> , 2013 , 7, 3420-6	16.7	69

74	Gelatin-templated mesoporous titania for photocatalytic air treatment and application in metal chalcogenide nanoparticle-sensitized solar cells. <i>Photochemical and Photobiological Sciences</i> , 2013 , 12, 621-5	4.2	12
73	Size-dependent photoinduced interactions between ZnO nanocrystals and a nitronyl nitroxide radical Nit(o-OH)Ph. <i>Photochemical and Photobiological Sciences</i> , 2013 , 12, 356-62	4.2	1
72	A new mild synthesis and optical properties of colloidal ZnO nanocrystals in dimethylformamide/ethanol solutions. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1617, 119-124		
71	Size Control of Cadmium Sulfide Nanoparticles in Polyvinyl Alcohol and Gelatin by Polyethyleneimine Addition. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1534, A139-A144		
70	Photoinduced Photoluminescence Enhancement in CdSe Quantum Dot/Polyvinyl Alcohol Composites. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1534, A145-A150		
69	Photoluminescence and Structural Properties of CdSe Quantum Dot-Polymer Composite Films. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1617, 171-177		
68	Colloidal indium sulfide quantum dots in water: synthesis and optical properties. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1617, 163-169		1
67	The effect of bio-conjugation on aging of the photoluminescence in CdSeTe/ZnS core-shell quantum dots. <i>Superlattices and Microstructures</i> , 2012 , 51, 353-362	2.8	10
66	Morphology, photochemical and photocatalytic properties of nanocrystalline zinc oxide films. <i>Theoretical and Experimental Chemistry</i> , 2012 , 48, 331-337	1.3	6
65	Photochemical reduction of graphene oxide in colloidal solution. <i>Theoretical and Experimental Chemistry</i> , 2012 , 48, 2-13	1.3	29
64	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		4
63	Effect of temperature on the optical properties of polyethylenimine-stabilized CdS nanoparticles. <i>Theoretical and Experimental Chemistry</i> , 2012 , 48, 106-112	1.3	1
62	Optical and electroluminescent characteristics of CdS nanoparticles stabilized by guanidine-containing dendrimers. <i>Theoretical and Experimental Chemistry</i> , 2012 , 47, 361-366	1.3	1
61	Preparation and optical properties of polyethylenimine-stabilized colloidal CdSe and CdS x Se _{1-x} quantum dots. <i>Theoretical and Experimental Chemistry</i> , 2011 , 46, 416-421	1.3	8
60	Oscillations of light absorption in 2D macroporous silicon structures with surface nanocoatings. <i>Applied Surface Science</i> , 2011 , 257, 3331-3335	6.7	19
59	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	4.7	15
58	Size-Dependent Optical Properties of Colloidal ZnO Nanoparticles Charged by Photoexcitation. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 220-225	3.8	65
57	Synthesis and Characterization of White-Emitting CdS Quantum Dots Stabilized with Polyethylenimine. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 22478-22486	3.8	55

56	Photochemical reduction of sulfur in the presence of ZnO nanoparticles in ethanol. <i>Theoretical and Experimental Chemistry</i> , 2010 , 46, 218-224	1.3	3
55	Preparation and spectral properties of high-efficiency luminescent polyethylenimine-stabilized CdS quantum dots. <i>Theoretical and Experimental Chemistry</i> , 2010 , 46, 233-238	1.3	8
54	Dynamics of the radiative recombination of charge carriers in CdS nanoparticles stabilized with polyethyleneimine. <i>Theoretical and Experimental Chemistry</i> , 2010 , 46, 273-278	1.3	8
53	A spectroscopic and photochemical study of Ag(+)-, Cu(2+)-, Hg(2+)-, and Bi(3+)-doped Cd(x)Zn(1-x)S nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2010 , 345, 515-23	9.3	22
52	Electron energy factors in photocatalytic methylviologen reduction in the presence of semiconductor nanocrystals. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010 , 210, 209-214	7	20
51	Photocatalytic production of hydrogen in systems based on Cd x Zn1-x S/NiO nanostructures. <i>Theoretical and Experimental Chemistry</i> , 2009 , 45, 12-22	1.3	8
50	Semiconductor photocatalytic systems for the production of hydrogen by the action of visible light. <i>Theoretical and Experimental Chemistry</i> , 2009 , 45, 209-233	1.3	30
49	Effect of the method of production of TiO2/CdS nanohetero film structures on the effectiveness of photoinduced charge separation. <i>Theoretical and Experimental Chemistry</i> , 2009 , 45, 302-307	1.3	6
48	Photocatalytic production of hydrogen from water-alcohol media with the participation of mesoporous TiO2. <i>Theoretical and Experimental Chemistry</i> , 2009 , 45, 343-348	1.3	11
47	Photocatalytic growth of CdS, PbS, and CuxS nanoparticles on the nanocrystalline TiO2 films. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009 , 203, 137-144	4.7	47
46	The influence of shell parameters on phonons in core-shell nanoparticles: a resonant Raman study. <i>Nanotechnology</i> , 2009 , 20, 365704	3.4	45
45	Optical studies of CdSe/HgSe and CdSe/Ag2Se core/shell nanoparticles embedded in gelatin. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 455203	1.8	10
44	Optical absorption processes in CdSe nanocrystals embedded in silicate glass and organic polymer matrices under 7-MeV electron irradiation. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 806-11	1.3	4
43	Photochemical formation of semiconducting nanostructures. <i>Theoretical and Experimental Chemistry</i> , 2008 , 44, 205-231	1.3	17
42	Photopolymerization of water-soluble acrylic monomers induced by colloidal CdS and Cd x Zn1-x S nanoparticles. <i>Colloid and Polymer Science</i> , 2008 , 286, 489-498	2.4	14
41	Photocatalytic hydrogen evolution over mesoporous TiO2/metal nanocomposites. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008 , 198, 126-134	4.7	108
40	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
39	Annealing-induced structural transformation of gelatin-capped Se nanoparticles. <i>Solid State Communications</i> , 2008 , 145, 288-292	1.6	28

38	Characterization of semiconductor core-shell nanoparticles by resonant Raman scattering and photoluminescence spectroscopy. <i>Applied Surface Science</i> , 2008 , 255, 725-727	6.7	14
37	Size effects on Raman spectra of small CdSe nanoparticles in polymer films. <i>Nanotechnology</i> , 2008 , 19, 305707	3.4	71
36	Photoinitiation of acrylamide polymerization by Fe ₂ O ₃ nanoparticles. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007 , 192, 98-104	4.7	24
35	Photochemical synthesis of ZnO/Ag nanocomposites. <i>Journal of Nanoparticle Research</i> , 2007 , 9, 427-440	2.3	41
34	Zinc sulfide nanoparticles: Spectral properties and photocatalytic activity in metals reduction reactions. <i>Journal of Nanoparticle Research</i> , 2007 , 9, 1027-1039	2.3	38
33	Structure and spectral-optical characteristics of Se, Se/CdS, and Se/Cd _{0.5} Zn _{0.5} S nanoparticles, stabilized in polymer-containing media. <i>Theoretical and Experimental Chemistry</i> , 2007 , 43, 28-34	1.3	1
32	Photoinduced variations in the size of nanoparticles of CdS in colloidal solutions. <i>Theoretical and Experimental Chemistry</i> , 2007 , 43, 184-190	1.3	3
31	Photocatalytic formation of porous CdS/ZnO nanospheres and CdS nanotubes. <i>Theoretical and Experimental Chemistry</i> , 2007 , 43, 229-234	1.3	12
30	Nanosecond and microsecond decay of photogenerated charges in Cd _x Zn _{1-x} S nanoparticles. <i>Theoretical and Experimental Chemistry</i> , 2007 , 43, 297-305	1.3	16
29	Resonant Raman scattering study of CdSe nanocrystals passivated with CdS and ZnS. <i>Nanotechnology</i> , 2007 , 18, 285701	3.4	83
28	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
27	Features of formation of CdSe nanoparticles in aqueous sodium polyphosphate solutions. <i>Theoretical and Experimental Chemistry</i> , 2006 , 42, 113-118	1.3	2
26	Spectral and photochemical characteristics of CdSe nanoparticles stabilized in polymer-containing media. <i>Theoretical and Experimental Chemistry</i> , 2006 , 42, 162-168	1.3	
25	Structural and optical characteristics of Cd _x Zn _{1-x} S nanoparticles stabilized in aqueous solutions of polymers. <i>Theoretical and Experimental Chemistry</i> , 2006 , 42, 181-185	1.3	6
24	The effect of PbS nanoparticles on the formation of PbSe in aqueous solutions of sodium selenosulfate and lead(II). <i>Theoretical and Experimental Chemistry</i> , 2006 , 42, 346-351	1.3	1
23	Photochemical synthesis and optical properties of binary and ternary metal-semiconductor composites based on zinc oxide nanoparticles. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2005 , 173, 185-194	4.7	90
22	Photocatalytic synthesis of ZnO/Ag nanostructure sensitized by methylene blue. <i>Theoretical and Experimental Chemistry</i> , 2005 , 41, 13-18	1.3	
21	Photocatalytic activity of a mesoporous TiO ₂ /Ni composite in the generation of hydrogen from aqueous ethanol systems. <i>Theoretical and Experimental Chemistry</i> , 2005 , 41, 26-31	1.3	4

20	Quantum Size Effects in the Photonics of Semiconductor Nanoparticles. <i>Theoretical and Experimental Chemistry</i> , 2005 , 41, 67-91	1.3	41
19	Spectro-Optical and Photochemical Properties of ZnS Nanoparticles. <i>Theoretical and Experimental Chemistry</i> , 2005 , 41, 111-116	1.3	4
18	Photocatalytic Synthesis of Composite CdSe/CdS Nanoparticles. <i>Theoretical and Experimental Chemistry</i> , 2005 , 41, 181-186	1.3	7
17	Quantum Size Effects in Semiconductor Photocatalysis. <i>Theoretical and Experimental Chemistry</i> , 2005 , 41, 207-228	1.3	56
16	Photocatalytic Reduction of Zn(II) with Participation of ZnS Nanoparticles. <i>Theoretical and Experimental Chemistry</i> , 2005 , 41, 241-246	1.3	2
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12	Photochemical Synthesis, Spectral-Optical and Electrophysical Properties of Composite Nanoparticles of ZnO/Ag. <i>Theoretical and Experimental Chemistry</i> , 2004 , 40, 98-104	1.3	16
11	Oxidation of Polysulfide Ions Induced by CdS Nanoparticles under Pulsed Photolysis Conditions. <i>Theoretical and Experimental Chemistry</i> , 2004 , 40, 130-135	1.3	3
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5	Optical Characteristics of Colloidal Nanoparticles of CdS Stabilized with Sodium Polyphosphate and Their Behavior during Pulse Photoexcitation. <i>Theoretical and Experimental Chemistry</i> , 2003 , 39, 158-165	1.3	12
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