Oleksandr L Stroyuk

List of Publications by Citations

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	Solar light harvesting with multinary metal chalcogenide nanocrystals. *Chemical Society Reviews*, **2018**, 47, 5354-5422	58.5	122
162	Photocatalytic hydrogen evolution over mesoporous TiO2/metal nanocomposites. *Journal of Photochemistry and Photobiology A: Chemistry*, **2008**, 198, 126-134	4.7	108
161	Optical and catalytic properties of Ag2S nanoparticles. *Journal of Molecular Catalysis A*, **2004**, 221, 209-221		107
160	A Fine Size Selection of Brightly Luminescent Water-Soluble AgInS and AgInS/ZnS Quantum Dots. *Journal of Physical Chemistry C*, **2017**, 121, 9032-9042	3.8	94
159	Photochemical synthesis and optical properties of binary and ternary metal–semiconductor composites based on zinc oxide nanoparticles. *Journal of Photochemistry and Photobiology A: Chemistry*, **2005**, 173, 185-194	4.7	90
158	Resonant Raman scattering study of CdSe nanocrystals passivated with CdS and ZnS. *Nanotechnology*, **2007**, 18, 285701	3.4	83
157	Size effects on Raman spectra of small CdSe nanoparticles in polymer films. *Nanotechnology*, **2008**, 19, 305707	3.4	71
156	Nonresonant surface-enhanced Raman scattering of ZnO quantum dots with Au and Ag nanoparticles. *ACS Nano*, **2013**, 7, 3420-6	16.7	69
155	Origin and Dynamics of Highly Efficient Broadband Photoluminescence of Aqueous Glutathione-Capped Size-Selected AgInS Quantum Dots. *Journal of Physical Chemistry C*, **2018**, 122, 13648-13658	3.8	67
154	Size-Dependent Optical Properties of Colloidal ZnO Nanoparticles Charged by Photoexcitation. *Journal of Physical Chemistry C*, **2010**, 114, 220-225	3.8	65
153	Quantum Size Effects in Semiconductor Photocatalysis. *Theoretical and Experimental Chemistry*, **2005**, 41, 207-228	1.3	56
152	Synthesis and Characterization of White-Emitting CdS Quantum Dots Stabilized with Polyethylenimine. *Journal of Physical Chemistry C*, **2010**, 114, 22478-22486	3.8	55
151	Preparation of colloidal CdSe and CdS/CdSe nanoparticles from sodium selenosulfate in aqueous polymers solutions. *Journal of Colloid and Interface Science*, **2006**, 302, 133-41	9.3	49
150	Photocatalytic growth of CdS, PbS, and CuxS nanoparticles on the nanocrystalline TiO2 films. *Journal of Photochemistry and Photobiology A: Chemistry*, **2009**, 203, 137-144	4.7	47
149	The influence of shell parameters on phonons in core-shell nanoparticles: a resonant Raman study. *Nanotechnology*, **2009**, 20, 365704	3.4	45
148	Raman and Infrared Phonon Spectra of Ultrasmall Colloidal CdS Nanoparticles. *Journal of Physical Chemistry C*, **2014**, 118, 19492-19497	3.8	43
147	Spectral and luminescent properties of ZnO–SiO2 core–shell nanoparticles with size-selected ZnO cores. *RSC Advances*, **2014**, 4, 63393-63401	3.7	42

146	Photochemical synthesis of ZnO/Ag nanocomposites. *Journal of Nanoparticle Research*, **2007**, 9, 427-440	2.3	41
145	Quantum Size Effects in the Photonics of Semiconductor Nanoparticles. *Theoretical and Experimental Chemistry*, **2005**, 41, 67-91	1.3	41
144	Luminescence and photoelectrochemical properties of size-selected aqueous copper-doped Ag-In-S quantum dots.. *RSC Advances*, **2018**, 8, 7550-7557	3.7	40
143	Non-stoichiometric Cu□h□@ZnS nanoparticles produced in aqueous solutions as light harvesters for liquid-junction photoelectrochemical solar cells. *RSC Advances*, **2016**, 6, 100145-100157	3.7	39
142	Zinc sulfide nanoparticles: Spectral properties and photocatalytic activity in metals reduction reactions. *Journal of Nanoparticle Research*, **2007**, 9, 1027-1039	2.3	38
141	Inherently Broadband Photoluminescence in Ag□h□/ZnS Quantum Dots Observed in Ensemble and Single-Particle Studies. *Journal of Physical Chemistry C*, **2019**, 123, 2632-2641	3.8	35
140	Influence of colloidal graphene oxide on photocatalytic activity of nanocrystalline TiO2 in gas-phase ethanol and benzene oxidation. *Applied Catalysis B: Environmental*, **2014**, 148-149, 543-549	21.8	31
139	Semiconductor photocatalytic systems for the production of hydrogen by the action of visible light. *Theoretical and Experimental Chemistry*, **2009**, 45, 209-233	1.3	30
138	Photochemical reduction of graphene oxide in colloidal solution. *Theoretical and Experimental Chemistry*, **2012**, 48, 2-13	1.3	29
137	Annealing-induced structural transformation of gelatin-capped Se nanoparticles. *Solid State Communications*, **2008**, 145, 288-292	1.6	28
136	A dynamic light scattering study of photochemically reduced colloidal graphene oxide. *Colloid and Polymer Science*, **2014**, 292, 539-546	2.4	27
135	Luminescent Ag-doped In2S3 nanoparticles stabilized by mercaptoacetate in water and glycerol. *Journal of Nanoparticle Research*, **2015**, 17, 1	2.3	26
134	Photochemical formation and photoelectrochemical properties of TiO2/Sb2S3 heterostructures. *Journal of Photochemistry and Photobiology A: Chemistry*, **2015**, 303-304, 8-16	4.7	26
133	Raman characterization of CuZnSnS nanocrystals: phonon confinement effect and formation of Cu S phases.. *RSC Advances*, **2018**, 8, 30736-30746	3.7	25
132	"Green" Aqueous Synthesis and Advanced Spectral Characterization of Size-Selected CuZnSnS Nanocrystal Inks. *Scientific Reports*, **2018**, 8, 13677	4.9	25
131	Photoinitiation of acrylamide polymerization by Fe2O3 nanoparticles. *Journal of Photochemistry and Photobiology A: Chemistry*, **2007**, 192, 98-104	4.7	24
130	Origin of the Broadband Photoluminescence of Pristine and Cu+/Ag+-Doped Ultrasmall CdS and CdSe/CdS Quantum Dots. *Journal of Physical Chemistry C*, **2018**, 122, 10267-10277	3.8	23
129	Structural and optical characterization of colloidal Se nanoparticles prepared via the acidic decomposition of sodium selenosulfate. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2008**, 320, 169-174	5.1	23

128	Photocatalytic Oxidation of Hydrosulfide Ions by Molecular Oxygen Over Cadmium Sulfide Nanoparticles. *Journal of Nanoparticle Research*, **2004**, 6, 149-158	2.3	23
127	Preparation and optical properties of highly luminescent colloidal single-layer carbon nitride. *RSC Advances*, **2015**, 5, 46843-46849	3.7	22
126	A spectroscopic and photochemical study of Ag(+)-, Cu(2+)-, Hg(2+)-, and Bi(3+)-doped Cd(x)Zn(1-x)S nanoparticles. *Journal of Colloid and Interface Science*, **2010**, 345, 515-23	9.3	22
125	Enhanced Raman scattering of ZnO nanocrystals in the vicinity of gold and silver nanostructured surfaces. *Optics Express*, **2016**, 24, A168-73	3.3	20
124	Photopolymerization of acrylamide induced by colloidal graphene oxide. *Journal of Photochemistry and Photobiology A: Chemistry*, **2013**, 256, 1-6	4.7	20
123	Electron energy factors in photocatalytic methylviologen reduction in the presence of semiconductor nanocrystals. *Journal of Photochemistry and Photobiology A: Chemistry*, **2010**, 210, 209-214	4.7	20
122	Enhancement of the photoluminescence in CdSe quantum dot–polyvinyl alcohol composite by light irradiation. *Applied Surface Science*, **2013**, 281, 118-122	6.7	19
121	Oscillations of light absorption in 2D macroporous silicon structures with surface nanocoatings. *Applied Surface Science*, **2011**, 257, 3331-3335	6.7	19
120	Graphitic carbon nitride nanotubes: a new material for emerging applications.. *RSC Advances*, **2020**, 10, 34059-34087	3.7	19
119	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	2.3	18
118	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	2.2	17
117	A new route to very stable water-soluble ultra-small core/shell CdSe/CdS quantum dots. *Nano Structures Nano Objects*, **2018**, 13, 146-154	5.6	17
116	Photochemical formation of semiconducting nanostructures. *Theoretical and Experimental Chemistry*, **2008**, 44, 205-231	1.3	17
115	Spectral and Luminescent Characteristics of Products from Exfoliation of Graphitic Carbon Nitride Produced at Various Temperatures. *Theoretical and Experimental Chemistry*, **2015**, 51, 243-251	1.3	16
114	Nanosecond and microsecond decay of photogenerated charges in CdxZn1−xS nanoparticles. *Theoretical and Experimental Chemistry*, **2007**, 43, 297-305	1.3	16
113	Photochemical Synthesis, Spectral-Optical and Electrophysical Properties of Composite Nanoparticles of ZnO/Ag. *Theoretical and Experimental Chemistry*, **2004**, 40, 98-104	1.3	16
112	Optical characterization of the AgInS2 nanocrystals synthesized in aqueous media under stoichiometric conditions. *Materials Science in Semiconductor Processing*, **2015**, 37, 135-142	4.3	15
111	Nanocrystalline TiO2/Au films: Photocatalytic deposition of gold nanocrystals and plasmonic enhancement of Raman scattering from titania. *Materials Science in Semiconductor Processing*, **2015**, 37, 3-8	4.3	15

110	Photocatalytic properties of rutile nanoparticles obtained via low temperature route from titanate nanotubes. *Journal of Photochemistry and Photobiology A: Chemistry*, **2011**, 218, 231-238	4.7	15
109	Lead-free hybrid perovskites for photovoltaics. *Beilstein Journal of Nanotechnology*, **2018**, 9, 2209-2235	3	14
108	Photopolymerization of water-soluble acrylic monomers induced by colloidal CdS and Cd x Zn1 x S nanoparticles. *Colloid and Polymer Science*, **2008**, 286, 489-498	2.4	14
107	Characterization of semiconductor core–shell nanoparticles by resonant Raman scattering and photoluminescence spectroscopy. *Applied Surface Science*, **2008**, 255, 725-727	6.7	14
106	Spectral, Optical, and Photocatalytic Characteristics of Quantum-Sized Particles of CdTe. *Theoretical and Experimental Chemistry*, **2004**, 40, 220-225	1.3	14
105	Role of quantum-sized effects on the cathodic photocorrosion of ZnO nanoparticles in ethanol. *Theoretical and Experimental Chemistry*, **2004**, 40, 378-382	1.3	14
104	Photocatalytic H 2 production from aqueous solutions of hydrazine and its derivatives in the presence of nitric-acid-activated graphitic carbon nitride. *Catalysis Today*, **2017**, 284, 229-235	5.3	13
103	Photocatalytic Hydrogen Evolution Under Visible Light Illumination in Systems Based on Graphitic Carbon Nitride. *Theoretical and Experimental Chemistry*, **2018**, 54, 1-35	1.3	13
102	Morphology, optical, and photoelectrochemical properties of electrodeposited nanocrystalline ZnO films sensitized with Cd x Zn1 x S nanoparticles. *Journal of Materials Science*, **2013**, 48, 7764-7773	4.3	13
101	Temperature-Dependent Photoluminescence of Silver-Indium-Sulfide Nanocrystals in Aqueous Colloidal Solutions. *ChemPhysChem*, **2019**, 20, 1640-1648	3.2	12
100	Raman and X-ray Photoemission Identification of Colloidal Metal Sulfides as Potential Secondary Phases in Nanocrystalline Cu2ZnSnS4 Photovoltaic Absorbers. *ACS Applied Nano Materials*, **2020**, 3, 5706-5717	5.6	12
99	Photocatalytic Selective Oxidation of Organic Compounds in Graphitic Carbon Nitride Systems: A Review. *Theoretical and Experimental Chemistry*, **2019**, 55, 147-172	1.3	12
98	Inorganic photoelectrochemical solar cells based on nanocrystalline ZnO/ZnSe and ZnO/CuSe heterostructures. *Catalysis Today*, **2014**, 230, 227-233	5.3	12
97	Gelatin-templated mesoporous titania for photocatalytic air treatment and application in metal chalcogenide nanoparticle-sensitized solar cells. *Photochemical and Photobiological Sciences*, **2013**, 12, 621-5	4.2	12
96	Photocatalytic formation of porous CdS/ZnO nanospheres and CdS nanotubes. *Theoretical and Experimental Chemistry*, **2007**, 43, 229-234	1.3	12
95	Optical Characteristics of Colloidal Nanoparticles of CdS Stabilized with Sodium Polyphosphate and Their Behavior during Pulse Photoexcitation. *Theoretical and Experimental Chemistry*, **2003**, 39, 158-165	1.3	12
94	One-step photostructuring of multiple hydrogel arrays for compartmentalized enzyme reactions in microfluidic devices. *Reaction Chemistry and Engineering*, **2019**, 4, 2141-2155	4.9	12
93	Brightly luminescent colloidal AgInS nanoparticles stabilized in aqueous solutions by branched polyethyleneimine. *Journal of Luminescence*, **2016**, 178, 295-300	3.8	11

92	Photocatalytic production of hydrogen from water–alcohol media with the participation of mesoporous TiO2. *Theoretical and Experimental Chemistry*, **2009**, 45, 343-348	1.3	11
91	Photoassisted formation of Cu(x)S-based cathodes for CdS-sensitized solar cells with S(2-)/S(x)(2-) electrolyte. *Photochemical and Photobiological Sciences*, **2015**, 14, 942-7	4.2	10
90	The effect of bio-conjugation on aging of the photoluminescence in CdSeTe/ZnS core–shell quantum dots. *Superlattices and Microstructures*, **2012**, 51, 353-362	2.8	10
89	Optical studies of CdSe/HgSe and CdSe/Ag2Se core/shell nanoparticles embedded in gelatin. *Journal of Physics Condensed Matter*, **2008**, 20, 455203	1.8	10
88	Photocatalysis of the Reduction of Cd2+ Ions by CdS Nanoparticles in Isopropyl Alcohol. *Theoretical and Experimental Chemistry*, **2003**, 39, 341-346	1.3	10
87	Insights into different photoluminescence mechanisms of binary and ternary aqueous nanocrystals from the temperature dependence: A case study of CdSe and Ag-In-S. *Journal of Luminescence*, **2019**, 215, 116630	3.8	9
86	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	2.2	9
85	Solar Light Harvesting with Nanocrystalline Semiconductors. *Lecture Notes in Quantum Chemistry II*, **2018**,	0.6	9
84	Photochemical Processes Involving Graphene Oxide. *Theoretical and Experimental Chemistry*, **2015**, 51, 1-29	1.3	8
83	Photoelectrochemical Characteristics of Solar Cell Based on FTO/ZnO/CdS (Photoanode) and FTO/ZnO/Cu x S (Counter Electrode) Heterostructures Formed by Photocatalytic Methods. *Theoretical and Experimental Chemistry*, **2015**, 51, 203-209	1.3	8
82	Morphology, optical and catalytic properties of polyethyleneimine-stabilized Au nanoparticles. *Journal of Molecular Catalysis A*, **2015**, 398, 35-41		8
81	Light-emitting structures of CdS nanocrystals in oxidized macroporous silicon. *Applied Surface Science*, **2016**, 388, 288-293	6.7	8
80	Effect of the Method of Preparation of ZnO/CdS and TiO2/CdS Film Nanoheterostructures on Their Photoelectrochemical Properties. *Theoretical and Experimental Chemistry*, **2013**, 49, 165-171	1.3	8
79	Photocatalytic and photoelectrochemical properties of hierarchical mesoporous TiO2 microspheres produced using a crown template. *Journal of Photochemistry and Photobiology A: Chemistry*, **2017**, 334, 26-35	4.7	8
78	Preparation and optical properties of polyethyleneimine-stabilized colloidal CdSe and CdS x Se1– quantum dots. *Theoretical and Experimental Chemistry*, **2011**, 46, 416-421	1.3	8
77	Photocatalytic production of hydrogen in systems based on Cd x Zn1– S/Ni0 nanostructures. *Theoretical and Experimental Chemistry*, **2009**, 45, 12-22	1.3	8
76	Preparation and spectral properties of high-efficiency luminescent polyethylenimine-stabilized CdS quantum dots. *Theoretical and Experimental Chemistry*, **2010**, 46, 233-238	1.3	8
75	Dynamics of the radiative recombination of charge carriers in CdS nanoparticles stabilized with polyethyleneimine. *Theoretical and Experimental Chemistry*, **2010**, 46, 273-278	1.3	8

74	Photoinduced Electron Transfer between CdS and CdTe Nanoparticles in Colloidal Solutions. *Theoretical and Experimental Chemistry*, **2004**, 40, 287-292	1.3	8
73	Raman study of flash-lamp annealed aqueous CuZnSnS nanocrystals. *Beilstein Journal of Nanotechnology*, **2019**, 10, 222-227	3	7
72	Photocatalytic Synthesis of Composite CdSe/CdS Nanoparticles. *Theoretical and Experimental Chemistry*, **2005**, 41, 181-186	1.3	7
71	Quantum-sized effects and the nature of the primary photoprocesses in copper(I) and copper(II) sulfide nanoparticles. *Theoretical and Experimental Chemistry*, **1999**, 35, 89-94	1.3	7
70	Ultra-small aqueous glutathione-capped Ag-In-Se quantum dots: luminescence and vibrational properties.. *RSC Advances*, **2020**, 10, 42178-42193	3.7	7
69	Graded ZnS/ZnSxO1⊠ heterostructures produced by oxidative photolysis of zinc sulfide: Structure, optical properties and photocatalytic evolution of molecular hydrogen. *Journal of Photochemistry and Photobiology A: Chemistry*, **2016**, 329, 213-220	4.7	7
68	Mercury-indium-sulfide nanocrystals: A new member of the family of ternary in based chalcogenides. *Journal of Chemical Physics*, **2019**, 151, 144701	3.9	6
67	Graphene Oxide Composites with Silver Nanoparticles: Photochemical Formation and Electrocatalytic Activity in the Oxidation of Methanol and Formaldehyde. *Theoretical and Experimental Chemistry*, **2014**, 50, 155-161	1.3	6
66	Structure, optical properties and visible-light-induced photochemical activity of nanocrystalline ZnO films deposited by atomic layer deposition onto Si(100). *Thin Solid Films*, **2014**, 573, 128-133	2.2	6
65	Morphology, photochemical and photocatalytic properties of nanocrystalline zinc oxide films. *Theoretical and Experimental Chemistry*, **2012**, 48, 331-337	1.3	6
64	Effect of the method of production of TiO2/CdS nanohetero film structures on the effectiveness of photoinduced charge separation. *Theoretical and Experimental Chemistry*, **2009**, 45, 302-307	1.3	6
63	Structural and optical characteristics of CdxZn1⊠ S nanoparticles stabilized in aqueous solutions of polymers. *Theoretical and Experimental Chemistry*, **2006**, 42, 181-185	1.3	6
62	Photocatalysis of the Release of Molecular Hydrogen from Aqueous Solutions of Sodium Sulfite by Composite CdS/Ni Nanoparticles. *Theoretical and Experimental Chemistry*, **2004**, 40, 1-6	1.3	6
61	Composition-Dependent Optical Band Bowing, Vibrational, and Photochemical Behavior of Aqueous Glutathione-Capped (Cu, Ag)⊡hS Quantum Dots. *Journal of Physical Chemistry C*, **2020**, 124, 19375-19388	3.8	6
60	Active Plasmonic Colloid-to-Film-Coupled Cavities for Tailored Light⊠Matter Interactions. *Journal of Physical Chemistry C*, **2019**, 123, 6745-6752	3.8	6
59	Tuning the surface plasmon resonance in gold nanocrystals with single layer carbon nitride.. *RSC Advances*, **2018**, 9, 444-449	3.7	5
58	Photocatalytic and Photoelectrochemical Characteristics of Mesoporous Titanium Dioxide Microspheres. *Theoretical and Experimental Chemistry*, **2015**, 51, 183-190	1.3	5
57	Phonon Spectra of Strongly Luminescent Nonstoichiometric Ag⊡hS, Cu⊡hS, and Hg⊡hS Nanocrystals of Small Size. *Journal of Physical Chemistry C*, **2020**, 124, 15511-15522	3.8	5

56	Semiconductor Photocatalytic Systems for the Reductive Conversion of CO2 and N2. *Theoretical and Experimental Chemistry*, **2018**, 53, 359-386	1.3	5
55	Photochemical Synthesis and Spectral-Optical Characteristics of ZnO/Cu and ZnO/Ag/Cu Nanoheterostructures. *Theoretical and Experimental Chemistry*, **2004**, 40, 149-153	1.3	5
54	CdS Nanoparticle Photocatalysis of the Chain Oxidation of Sulfite Ions by Molecular Oxygen. *Theoretical and Experimental Chemistry*, **2003**, 39, 235-241	1.3	5
53	Synthesis and Photophysical Properties of CuS Nanoparticles Stabilized by Sodium Polyphosphate. *Theoretical and Experimental Chemistry*, **2003**, 39, 303-308	1.3	5
52	Quenching of photoluminescence of colloidal ZnO nanocrystals by nitronyl nitroxide radicals. *Physica B: Condensed Matter*, **2014**, 453, 127-130	2.8	4
51	Modification by thermal annealing of the luminescent characteristics of CdSe quantum dots in gelatin films. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2012**, 9, 1779-1782		4
50	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, 806-11	1.3	4
49	Photocatalytic activity of a mesoporous TiO2/Ni composite in the generation of hydrogen from aqueous ethanol systems. *Theoretical and Experimental Chemistry*, **2005**, 41, 26-31	1.3	4
48	Spectro-Optical and Photochemical Properties of ZnS Nanoparticles. *Theoretical and Experimental Chemistry*, **2005**, 41, 111-116	1.3	4
47	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	1.3	3
46	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	1.3	3
45	Nanoparticles of Ag-In-S and Cu-In-S in Aqueous Media: Preparation, Spectral and Luminescent Properties. *Theoretical and Experimental Chemistry*, **2017**, 53, 338-348	1.3	3
44	The Photoluminescence Properties of CuInS2 and AgInS2 Nanocrystals Synthesized in Aqueous Solutions. *ECS Transactions*, **2015**, 66, 171-179	1	3
43	Photochemical reduction of sulfur in the presence of ZnO nanoparticles in ethanol. *Theoretical and Experimental Chemistry*, **2010**, 46, 218-224	1.3	3
42	Photoinduced variations in the size of nanoparticles of CdS in colloidal solutions. *Theoretical and Experimental Chemistry*, **2007**, 43, 184-190	1.3	3
41	Oxidation of Polysulfide Ions Induced by CdS Nanoparticles under Pulsed Photolysis Conditions. *Theoretical and Experimental Chemistry*, **2004**, 40, 130-135	1.3	3
40	High-Throughput Time-Resolved Photoluminescence Study of Composition- and Size-Selected Aqueous AgInS Quantum Dots. *Journal of Physical Chemistry C*, **2021**, 125, 12185-12197	3.8	3
39	High-Throughput Robotic Synthesis and Photoluminescence Characterization of Aqueous Multinary Copper–Silver Indium Chalcogenide Quantum Dots. *Particle and Particle Systems Characterization*, **2021**, 38, 2100169	3.1	3

38	Photoelectrochemical Properties of Titanium Dioxide Nanoheterostructures with Low-Dimensional Cadmium Selenide Particles. *Theoretical and Experimental Chemistry*, **2016**, 52, 152-162	1.3	2
37	Photoluminescence and structural properties of CdSe quantum dot–gelatin composite films. *Physica B: Condensed Matter*, **2014**, 453, 86-91	2.8	2
36	Nanoparticles of Graphitic Carbon Nitride: Stabilization in Aqueous Solutions, Spectral and Luminescent Properties. *Theoretical and Experimental Chemistry*, **2014**, 50, 291-298	1.3	2
35	Features of formation of CdSe nanoparticles in aqueous sodium polyphosphate solutions. *Theoretical and Experimental Chemistry*, **2006**, 42, 113-118	1.3	2
34	Photocatalytic Reduction of Zn(II) with Participation of ZnS Nanoparticles. *Theoretical and Experimental Chemistry*, **2005**, 41, 241-246	1.3	2
33	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	1.3	2
32	Photoinduced Enhancement of Photoluminescence of Colloidal II-VI Nanocrystals in Polymer Matrices. *Nanomaterials*, **2020**, 10,	5.4	2
31	Nondestructive characterization of polymeric components of silicon solar modules by near-infrared absorption spectroscopy (NIRA). *Solar Energy Materials and Solar Cells*, **2020**, 216, 110702	6.4	2
30	Raman and X-ray Photoelectron Spectroscopic Study of Aqueous Thiol-Capped Ag-Zn-Sn-S Nanocrystals. *Materials*, **2021**, 14,	3.5	2
29	PV modules and their backsheets - A case study of a Multi-MW PV power station. *Solar Energy Materials and Solar Cells*, **2021**, 231, 111295	6.4	2
28	Spontaneous alloying of ultrasmall non-stoichiometric Ag-In-S and Cu-In-S quantum dots in aqueous colloidal solutions.. *RSC Advances*, **2021**, 11, 21145-21152	3.7	2
27	Effect of temperature on the optical properties of polyethylenimine-stabilized CdS nanoparticles. *Theoretical and Experimental Chemistry*, **2012**, 48, 106-112	1.3	1
26	Optical and electroluminescent characteristics of CdS nanoparticles stabilized by guanidine-containing dendrimers. *Theoretical and Experimental Chemistry*, **2012**, 47, 361-366	1.3	1
25	Size-dependent photoinduced interactions between ZnO nanocrystals and a nitronyl nitroxide radical Nit(o-OH)Ph. *Photochemical and Photobiological Sciences*, **2013**, 12, 356-62	4.2	1
24	Colloidal indium sulfide quantum dots in water: synthesis and optical properties. *Materials Research Society Symposia Proceedings*, **2013**, 1617, 163-169		1
23	Structure and spectral-optical characteristics of Se, Se/CdS, and Se/Cd0.5Zn0.5S nanoparticles, stabilized in polymer-containing media. *Theoretical and Experimental Chemistry*, **2007**, 43, 28-34	1.3	1
22	The effect of PbS nanoparticles on the formation of PbSe in aqueous solutions of sodium selenosulfate and lead(II). *Theoretical and Experimental Chemistry*, **2006**, 42, 346-351	1.3	1
21	Unique Luminescent Properties of Composition-/Size-Selected Aqueous Ag-In-S and Core/Shell Ag-In-S/ZnS Quantum Dots. *Lecture Notes in Nanoscale Science and Technology*, **2020**, 67-122	0.3	1

20	Room-Temperature Electron Paramagnetic Resonance Study of a Copper-Related Defect in Cu2ZnSnS4 Colloidal Nanocrystals. *Journal of Physical Chemistry C*, **2021**, 125, 9923-9929	3.8	1
19	Single-layer carbon nitride: synthesis, structure, photophysical/photochemical properties, and applications. *Physical Chemistry Chemical Physics*, **2021**, 23, 20745-20764	3.6	1
18	Semiconductor-Based Photocatalytic Systems for the Reductive Conversion of CO2 and N2. *Lecture Notes in Quantum Chemistry II*, **2018**, 127-160	0.6	1
17	Semiconductor-Based Photocatalytic Systems for the Solar-Light-Driven Water Splitting and Hydrogen Evolution. *Lecture Notes in Quantum Chemistry II*, **2018**, 39-125	0.6	1
16	Effect of the Degree of Photoreduction of Graphene Oxide on its Ability to Stabilize Graphite and Carbon Nanotubes in Aqueous Colloidal Solutions. *Theoretical and Experimental Chemistry*, **2014**, 50, 282-290	1.3	0
15	Copper-Content Dependent Structural and Electrical Properties of CZTS Films Formed by "Green" Colloidal Nanocrystals. *Electronic Materials*, **2022**, 3, 136-153	0.8	0
14	Effect of Post-Synthesis Heat Treatment of ZnO Nanoparticles in DMF on Their Size and Spectral and Luminescent Properties. *Theoretical and Experimental Chemistry*, **2016**, 51, 358-365	1.3	
13	Photoelectrochemical Properties of Nanoheterostructures Based on Titanium Dioxide and Ag-In-S Quantum Dots Produced by Size-Selective Precipitation. *Theoretical and Experimental Chemistry*, **2017**, 53, 251-258	1.3	
12	A new mild synthesis and optical properties of colloidal ZnO nanocrystals in dimethylformamide/ethanol solutions. *Materials Research Society Symposia Proceedings*, **2013**, 1617, 119-124		
11	Size Control of Cadmium Sulfide Nanoparticles in Polyvinyl Alcohol and Gelatin by Polyethyleneimine Addition. *Materials Research Society Symposia Proceedings*, **2013**, 1534, A139-A144		
10	Photoinduced Photoluminescence Enhancement in CdSe Quantum Dot–Polyvinyl Alcohol Composites. *Materials Research Society Symposia Proceedings*, **2013**, 1534, A145-A150		
9	Photoluminescence and Structural Properties of CdSe Quantum Dot-Polymer Composite Films. *Materials Research Society Symposia Proceedings*, **2013**, 1617, 171-177		
8	Spectral and photochemical characteristics of CdSe nanoparticles stabilized in polymer-containing media. *Theoretical and Experimental Chemistry*, **2006**, 42, 162-168	1.3	
7	Photocatalytic synthesis of ZnO/Ag nanostructure sensitized by methylene blue. *Theoretical and Experimental Chemistry*, **2005**, 41, 13-18	1.3	
6	Influence of local electric fields on the photoluminescence of CdS nanocrystals on the oxidized macroporous silicon surface. *Himia, Fizika Ta Tehnologia Poverhni*, **2015**, 6, 489-497	0.4	
5	Basic Concepts of the Photochemistry of Semiconductor Nanoparticles. *Lecture Notes in Quantum Chemistry II*, **2018**, 1-37	0.6	
4	Semiconductor-Based Liquid-Junction Photoelectrochemical Solar Cells. *Lecture Notes in Quantum Chemistry II*, **2018**, 161-240	0.6	
3	Synthesis of Nanocrystalline Photo-Active Semiconductors. *Lecture Notes in Quantum Chemistry II*, **2018**, 241-318	0.6	

2	Probing with Light: Optical Methods in Studies of Nanocrystalline Semiconductors. *Lecture Notes in Quantum Chemistry II*, **2018**, 319-371	0.6
1	Photocatalytic Formation of Composite Electrodes for Semiconductor-Sensitized Solar Cells **2018**, 425-458	