Mikhail Artemyev

List of Publications by Citations

158 papers	5,442 citations	40 h-index	69 g-index
184 ext. papers	5,998 ext. citations	4.8 avg, IF	5.37 L-index

#	Paper	IF	Citations
158	Enhanced Luminescence of CdSe Quantum Dots on Gold Colloids. *Nano Letters*, **2002**, 2, 1449-1452	11.5	578
157	Biocompatible fluorescent nanocrystals for immunolabeling of membrane proteins and cells. *Analytical Biochemistry*, **2004**, 324, 60-7	3.1	274
156	Exciton-plasmon-photon conversion in plasmonic nanostructures. *Physical Review Letters*, **2007**, 99, 136802	7.4	254
155	Energy Transfer in Aqueous Solutions of Oppositely Charged CdSe/ZnS Core/Shell Quantum Dots and in Quantum Dot Nanogold Assemblies. *Nano Letters*, **2004**, 4, 451-457	11.5	211
154	Electronic structure and exciton-phonon interaction in two-dimensional colloidal CdSe nanosheets. *Nano Letters*, **2012**, 12, 3151-7	11.5	197
153	Light Trapped in a Photonic Dot: Microspheres Act as a Cavity for Quantum Dot Emission. *Nano Letters*, **2001**, 1, 309-314	11.5	146
152	Synthesis of quantum dot-tagged submicrometer polystyrene particles by miniemulsion polymerization. *Langmuir*, **2006**, 22, 1810-6	4	122
151	Oriented conjugates of single-domain antibodies and quantum dots: toward a new generation of ultrasmall diagnostic nanoprobes. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2012**, 8, 516-25	6	116
150	Highly stable fluorescent nanocrystals as a novel class of labels for immunohistochemical analysis of paraffin-embedded tissue sections. *Laboratory Investigation*, **2002**, 82, 1259-61	5.9	116
149	Exciton fine structure in single CdSe nanorods. *Physical Review Letters*, **2005**, 94, 016803	7.4	109
148	Two Photon Absorption in II-VI Semiconductors: The Influence of Dimensionality and Size. *Nano Letters*, **2015**, 15, 4985-92	11.5	97
147	Linear Absorption in CdSe Nanoplates: Thickness and Lateral Size Dependency of the Intrinsic Absorption. *Journal of Physical Chemistry C*, **2015**, 119, 20156-20161	3.8	97
146	Directed emission of CdSe nanoplatelets originating from strongly anisotropic 2D electronic structure. *Nature Nanotechnology*, **2017**, 12, 1155-1160	28.7	95
145	Cavity QED with semiconductor nanocrystals. *Nano Letters*, **2006**, 6, 557-61	11.5	91
144	CdSe-CdS nanoheteroplatelets with efficient photoexcitation of central CdSe region through epitaxially grown CdS wings. *Journal of the American Chemical Society*, **2013**, 135, 14476-9	16.4	89
143	Recombination dynamics of CdTe/CdS core-shell nanocrystals. *Journal of Physical Chemistry B*, **2006**, 110, 2074-9	3.4	87
142	Basic principles and current trends in colloidal synthesis of highly luminescent semiconductor nanocrystals. *Chemistry - A European Journal*, **2013**, 19, 1534-46	4.8	80

141	Anomalous size-dependent decay of low-energy luminescence from PbS quantum dots in colloidal solution. *ACS Nano*, **2012**, 6, 8913-21	16.7	80
140	Surface plasmon mediated interference phenomena in low-q silver nanowire cavities. *Nano Letters*, **2008**, 8, 31-5	11.5	79
139	Exciton-plasmon interaction in a composite metal-insulator-semiconductor nanowire system. *Journal of the American Chemical Society*, **2007**, 129, 14939-45	16.4	73
138	Unidirectional Alignment of CdSe Nanorods. *Nano Letters*, **2003**, 3, 509-512	11.5	73
137	Functionalized nanocrystal-tagged fluorescent polymer beads: synthesis, physicochemical characterization, and immunolabeling application. *Analytical Biochemistry*, **2004**, 334, 257-65	3.1	72
136	Resonance energy transfer improves the biological function of bacteriorhodopsin within a hybrid material built from purple membranes and semiconductor quantum dots. *Nano Letters*, **2010**, 10, 2640-8	11.5	67
135	Electroabsorption by 0D, 1D, and 2D nanocrystals: a comparative study of CdSe colloidal quantum dots, nanorods, and nanoplatelets. *ACS Nano*, **2014**, 8, 7678-86	16.7	63
134	Performance improvement strategies for quantum dot-sensitized solar cells: a review. *Journal of Materials Chemistry A*, **2019**, 7, 2464-2489	13	62
133	p-State Luminescence in CdSe Nanoplatelets: Role of Lateral Confinement and a Longitudinal Optical Phonon Bottleneck. *Physical Review Letters*, **2016**, 116, 116802	7.4	60
132	Optically and electrically controlled circularly polarized emission from cholesteric liquid crystal materials doped with semiconductor quantum dots. *Advanced Materials*, **2012**, 24, 6216-22	24	59
131	A strain-induced exciton transition energy shift in CdSe nanoplatelets: the impact of an organic ligand shell. *Nanoscale*, **2017**, 9, 18042-18053	7.7	53
130	DNA-assisted formation of quasi-nanowires from fluorescent CdSe/ZnS nanocrystals. *Nanotechnology*, **2006**, 17, 581-587	3.4	52
129	Self-organized, highly luminescent CdSe nanorod-DNA complexes. *Journal of the American Chemical Society*, **2004**, 126, 10594-7	16.4	52
128	Colloidal quantum dots in all-dielectric high-Q pillar microcavities. *Nano Letters*, **2007**, 7, 2897-900	11.5	50
127	Coupled-resonator optical waveguides doped with nanocrystals. *Optics Letters*, **2005**, 30, 2116-8	3	49
126	Self-Assembly of CdSe Nanoplatelets into Stacks of Controlled Size Induced by Ligand Exchange. *Journal of Physical Chemistry C*, **2016**, 120, 5764-5775	3.8	48
125	Photons confined in hollow microspheres. *Applied Physics Letters*, **2001**, 78, 1032-1034	3.4	48
124	Colloidal synthesis and optical properties of type-II CdSe-CdTe and inverted CdTe-CdSe core-wing heteronanoplatelets. *Nanoscale*, **2015**, 7, 8084-92	7.7	47

123	Geometry dependence of the phonon modes in CdSe nanorods. *Nanotechnology*, **2009**, 20, 045705	3.4	47
122	Experimental investigation of exciton-LO-phonon couplings in CdSe/ZnS core/shell nanorods. *Physical Review B*, **2008**, 77,	3.3	47
121	Photonic molecules doped with semiconductor nanocrystals. *Physical Review B*, **2004**, 70,	3.3	45
120	Time-Resolved Stark Spectroscopy in CdSe Nanoplatelets: Exciton Binding Energy, Polarizability, and Field-Dependent Radiative Rates. *Nano Letters*, **2016**, 16, 6576-6583	11.5	42
119	Efficiency of energy transfer from organic dye molecules to CdSe-ZnS nanocrystals: nanorods versus nanodots. *Journal of the American Chemical Society*, **2009**, 131, 8061-5	16.4	41
118	Anisotropy of electron-phonon interaction in nanoscale CdSe platelets as seen via off-resonant and resonant Raman spectroscopy. *Physical Review B*, **2013**, 88,	3.3	36
117	Comparative advantages and limitations of the basic metrology methods applied to the characterization of nanomaterials. *Nanoscale*, **2013**, 5, 8781-98	7.7	36
116	Hybrid epitaxial-colloidal semiconductor nanostructures. *Nano Letters*, **2005**, 5, 483-90	11.5	34
115	Dot-in-a-dot: electronic and photonic confinement in all three dimensions. *Applied Physics B: Lasers and Optics*, **2003**, 77, 469-484	1.9	34
114	Direct observation of the radial breathing mode in CdSe nanorods. *Nano Letters*, **2008**, 8, 4614-7	11.5	33
113	Impact of Shell Growth on Recombination Dynamics and Exciton-Phonon Interaction in CdSe-CdS Core-Shell Nanoplatelets. *ACS Nano*, **2018**, 12, 9476-9483	16.7	33
112	Highly fluorescent ethyl cellulose nanoparticles containing embedded semiconductor nanocrystals. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2009**, 342, 59-64	5.1	32
111	Advanced procedures for labeling of antibodies with quantum dots. *Analytical Biochemistry*, **2011**, 416, 180-5	3.1	31
110	Quantum dot-containing polymer particles with thermosensitive fluorescence. *Biosensors and Bioelectronics*, **2013**, 39, 187-93	11.8	30
109	Temperature dependent radiative and non-radiative recombination dynamics in CdSe-CdTe and CdTe-CdSe type II hetero nanoplatelets. *Physical Chemistry Chemical Physics*, **2016**, 18, 3197-203	3.6	28
108	PbS Quantum Dots in a Porous Matrix: Optical Characterization. *Journal of Physical Chemistry C*, **2013**, 117, 12318-12324	3.8	28
107	Energy transfer in complexes of water-soluble quantum dots and chlorin e6 molecules in different environments. *Beilstein Journal of Nanotechnology*, **2013**, 4, 895-902	3	27
106	Submicron polymer particles containing fluorescent semiconductor nanocrystals CdSe/ZnS for bioassays. *Nanomedicine*, **2011**, 6, 195-209	5.6	27

105	Improved method for fluorophore deposition atop a polyelectrolyte spacer for quantitative study of distance-dependent plasmon-assisted luminescence. *Nanotechnology*, **2006**, 17, 5201-5206	3.4	26
104	Mode control by nanoengineering light emitters in spherical microcavities. *Applied Physics Letters*, **2003**, 83, 2686-2688	3.4	26
103	Comparative efficiency of energy transfer from CdSe-ZnS quantum dots or nanorods to organic dye molecules. *ChemPhysChem*, **2012**, 13, 330-5	3.2	25
102	Directed Two-Photon Absorption in CdSe Nanoplatelets Revealed by k-Space Spectroscopy. *Nano Letters*, **2017**, 17, 6321-6329	11.5	25
101	Size-dependence of the anharmonicities in the vibrational potential of colloidal CdSe nanocrystals. *Solid State Communications*, **2011**, 151, 67-70	1.6	25
100	Photons in coupled microsphere resonators. *Journal of Optics*, **2006**, 8, S113-S121		25
99	Mode identification in spherical microcavities doped with quantum dots. *Applied Physics Letters*, **2002**, 80, 3253-3255	3.4	25
98	Linear and Two-Photon Absorption in Zero- and One-Dimensional CdS Nanocrystals: Influence of Size and Shape. *Journal of Physical Chemistry C*, **2013**, 117, 25756-25760	3.8	24
97	One- and Two-Photon Absorption in CdS Nanodots and Wires: The Role of Dimensionality in the One- and Two-Photon Luminescence Excitation Spectrum. *Journal of Physical Chemistry C*, **2015**, 119, 1260-1267	3.8	23
96	Effect of ZnS shell on the Raman spectra from CdSe nanorods. *Physica Status Solidi - Rapid Research Letters*, **2007**, 1, 274-276	2.5	23
95	Hybrid heterostructures based on aromatic polyimide and semiconductor CdSe quantum dots for photovoltaic applications. *Applied Physics Letters*, **2013**, 103, 063302	3.4	22
94	Optical sensing quantum dot-labeled polyacrolein particles prepared by layer-by-layer deposition technique. *Journal of Colloid and Interface Science*, **2011**, 357, 265-72	9.3	22
93	Effect of a dielectric substrate on whispering-gallery-mode sensors. *Journal of the Optical Society of America B: Optical Physics*, **2006**, 23, 2361	1.7	22
92	Charge-controlled assembling of bacteriorhodopsin and semiconductor quantum dots for fluorescence resonance energy transfer-based nanophotonic applications. *Applied Physics Letters*, **2011**, 98, 013703	3.4	21
91	Optical phonons in colloidal CdSe nanorods. *Physica Status Solidi (B): Basic Research*, **2010**, 247, 2488-2497	1.3	21
90	Bloch modes and disorder phenomena in coupled resonator chains. *Physical Review B*, **2007**, 75,	3.3	21
89	Electrically controlled polarized photoluminescence of CdSe/ZnS nanorods embedded in a liquid crystal template. *Nanotechnology*, **2012**, 23, 325201	3.4	20
88	Tuning trion binding energy and oscillator strength in a laterally finite 2D system: CdSe nanoplatelets as a model system for trion properties. *Nanoscale*, **2020**, 12, 14448-14458	7.7	19

87	Chemical substitution of Cd ions by Hg in CdSe nanorods and nanodots: Spectroscopic and structural examination. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2012**, 177, 744-749	3.1	19
86	Influence of pH on luminescence from water-soluble colloidal Mn-doped ZnSe quantum dots capped with different mercaptoacids. *Journal of Luminescence*, **2012**, 132, 425-428	3.8	19
85	Effect of dispersed CdSe/ZnS quantum dots on optical and electrical characteristics of nematic liquid crystal cells. *Technical Physics Letters*, **2011**, 37, 1011-1014	0.7	19
84	Track membranes with embedded semiconductor nanocrystals: structural and optical examinations. *Nanotechnology*, **2011**, 22, 455201	3.4	18
83	Luminescence in quantum-confined cadmium selenide nanocrystals and nanorods in external electric fields. *Semiconductors*, **2009**, 43, 1008-1016	0.7	17
82	Engineering of ultra-small diagnostic nanoprobes through oriented conjugation of single-domain antibodies and quantum dots. *Protocol Exchange*,		17
81	Fluorescence of semiconductor nanorods in liquid-crystal composites. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2008**, 105, 306-309	0.7	16
80	CdS quantum dots in colloids and polymer matrices: electronic structure and photochemical properties. *Journal of Crystal Growth*, **1994**, 138, 993-997	1.6	16
79	A comparative study demonstrates strong size tunability of carrier-phonon coupling in CdSe-based 2D and 0D nanocrystals. *Nanoscale*, **2019**, 11, 3958-3967	7.7	16
78	Multiline spectra of single CdSe/ZnS core-shell nanorods. *Applied Physics Letters*, **2006**, 89, 263115	3.4	15
77	Determination of Concentration of Amphiphilic Polymer Molecules on the Surface of Encapsulated Semiconductor Nanocrystals. *Langmuir*, **2016**, 32, 1955-61	4	14
76	Low-field magnetic circular dichroism in silver and gold colloidal nanoparticles of different sizes, shapes, and aggregation states **2012**,		14
75	Measurement of the luminescence decay times of PbS quantum dots in the near-IR spectral range. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2012**, 112, 868-873	0.7	14
74	Fluorescent Colloidal Particles as Detection Tools in Biotechnology Systems133-168		14
73	Size-dependent exciton substructure in CdSe nanoplatelets and its relation to photoluminescence dynamics. *Nanoscale*, **2019**, 11, 12230-12241	7.7	13
72	Formation of structures based on semiconductor quantum dots and organic molecules in track pore membranes. *Journal of Applied Physics*, **2013**, 113, 214305	2.5	13
71	Dissociative CdSe/ZnS quantum dot-molecule complex for luminescent sensing of metal ions in aqueous solutions. *Journal of Applied Physics*, **2010**, 108, 074306	2.5	13
70	Reversible photoluminescence quenching of CdSe/ZnS quantum dots embedded in porous glass by ammonia vapor. *Nanotechnology*, **2013**, 24, 335701	3.4	12

69	Anisotropy of optical transitions in ordered ensemble of CdSe quantum rods. *Optics Letters*, **2013**, 38, 3426-8	3	12
68	Irreversible photochemical spectral hole burning in quantum-sized CdS nanocrystals embedded in a polymeric film. *Chemical Physics Letters*, **1995**, 243, 450-455	2.5	12
67	Highly luminescent Zn-Cu-In-S/ZnS core/gradient shell quantum dots prepared from indium sulfide by cation exchange for cell labeling and polymer composites. *Nanotechnology*, **2019**, 30, 395603	3.4	11
66	Effect of an electric field on photoluminescence of cadmium selenide nanocrystals. *Journal of Applied Spectroscopy*, **2010**, 77, 120-125	0.7	11
65	Composite system based on CdSe/ZnS quantum dots and GaAs nanowires. *Semiconductors*, **2013**, 47, 1346-1350	0.7	10
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62	Absorption saturation and self-action processes under resonant excitation of the basic exciton transition in CdSe/ZnS colloidal quantum dots. *Physics of the Solid State*, **2010**, 52, 1941-1946	0.8	9
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57	Raman investigation of strain effects in CdSe nanorods. *Physica Status Solidi (B): Basic Research*, **2009**, 246, 2817-2819	1.3	8
56	Band formation in coupled-resonator slow-wave structures. *Optics Express*, **2007**, 15, 17362-70	3.3	8
55	Quasi-nanowires from fluorescent semiconductor nanocrystals on the surface of oriented DNA molecules. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2006**, 100, 854-861	0.7	8
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53	Photostability of luminescent water-soluble cadmium selenide nanocrystals with chemical surface modification. *Journal of Applied Spectroscopy*, **2006**, 73, 572-575	0.7	7
52	Quantum Dot Emission Confined by a Spherical Photonic Dot. *Physica Status Solidi (B): Basic Research*, **2002**, 229, 423-426	1.3	7

51	Underpotential Deposition of Cadmium on Colloidal CdSe Quantum Dots: Effect of Particle Size and Surface Ligands. *Journal of Physical Chemistry C*, **2019**, 123, 931-939	3.8	7
50	Cd/Hg cationic substitution in magic-sized CdSe clusters: Optical characterization and theoretical studies. *Chemical Physics*, **2015**, 455, 32-40	2.3	5
49	Formation of Ultrasmall PbS Nanocrystals in Octadecene at Mild Temperature Promoted by Alcohol or Acetone Injection. *Journal of Physical Chemistry C*, **2014**, 118, 21104-21109	3.8	5
48	Quenching of photoluminescence in cadmium selenide nanocrystals in external electric fields for different excitation photon energies. *Journal of Applied Spectroscopy*, **2012**, 79, 95-103	0.7	5
47	Liquid-crystal composites with controlled photoluminescence of CdSe/ZnS semiconductor quantum rods. *Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)*, **2011**, 110, 897-902	0.7	5
46	Reversible Photoinduced Luminescence Modulation from Nanospheres Containing CdSe/ZnS Quantum Dots and Photochromic Diarylethene. *Journal of Physical Chemistry C*, **2020**, 124, 27064-27070	3.8	5
45	Anisotropy of Structure and Optical Properties of Self-Assembled and Oriented Colloidal CdSe Nanoplatelets. *Zeitschrift Fur Physikalische Chemie*, **2018**, 232, 1619-1630	3.1	4
44	Fluorescence of CdSe/ZnS quantum dots in solid solutions in the presence of organic molecules DODCI. *Journal of Luminescence*, **2004**, 110, 23-29	3.8	4
43	Interaction of fluorescent semiconductor nanoparticles with tumor cells. *Nanotechnologies in Russia* , **2015**, 10, 303-310	0.6	3
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41	Colloidal branched CdSe/CdS nanospiders with 2D/1D heterostructure. *Nanotechnology*, **2018**, 29, 395604	3.4	3
40	Current methods of the synthesis of luminescent semiconductor nanocrystals for biomedical applications. *Nanotechnologies in Russia*, **2013**, 8, 409-422	0.6	3
39	Oriented conjugates of monoclonal and single-domain antibodies with quantum dots for flow cytometry and immunohistochemistry diagnostic applications **2012**,		3
38	Anisotropy of light absorbed by an ensemble of CdSe quantum nanoplates. *Journal of Optical Technology (A Translation of Opticheskii Zhurnal)*, **2013**, 80, 642	0.9	3
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36	ORGANIZED PLANAR NANOSTRUCTURES VIA INTERFACIAL SELF-ASSEMBLY AND DNA TEMPLATING. *International Journal of Nanoscience*, **2004**, 03, 65-74	0.6	3
35	Nonlinear spectroscopy of photocoloured polytungstic acid nanocomposites. *Quantum Electronics*, **1998**, 28, 710-714	1.8	3
34	Electrostatic Repulsion Controls Efficiency of Cu-Free Click-Reaction with Azide-Modified Semiconductor Quantum Dots. *ChemNanoMat*, **2020**, 6, 292-297	3.5	3

33	Pseudo-refractive index and excitonic features of single layer CdSe/CdS core-shell nanoplatelet films. *Nanotechnology*, **2020**, 31, 435708	3.4	2
32	Raman analysis of chemical substitution of Cd atoms by Hg in CdSe quantum dots and rods. *Optical Engineering*, **2016**, 55, 017104	1.1	2
31	CdSe colloidal nanocrystals monolithically integrated in a pseudomorphic semiconductor epilayer. *Journal of Applied Physics*, **2013**, 113, 023502	2.5	2
30	Photophysical properties of CdSe/ZnS quantum dot□porphyrin surface complexes in aqueous media. *Theoretical and Experimental Chemistry*, **2012**, 48, 62-71	1.3	2
29	Optical properties of two-dimensional (2D) CdSe nanostructures **2013**,		2
28	Molecular beacons involving highly luminescent colloidal quantum dots. *Journal of Nanophotonics*, **2012**, 6, 060304	1.1	2
27	Self Organized Grown Stranski-Krastanow II-VI Quantum Dots Vs. Colloidal Nanocrystals Integrated In Epitaxial Nanostructures. *AIP Conference Proceedings*, **2007**,	0	2
26	Bloch modes and group velocity delay in coupled resonator chains. *Physica Status Solidi (A) Applications and Materials Science*, **2007**, 204, 3636-3646	1.6	2
25	Monomolecular polymeric films with incorporated Au101 clusters. *Microelectronic Engineering*, **2005**, 81, 400-404	2.5	2
24	UV laser-induced transformation of thin evaporated CdTe films in air. *Thin Solid Films*, **1995**, 264, 104-108	2.2	2
23	Anisotropic absorption of CdSe/ZnS quantum rods embedded in polymer film. *Advances in Nano Research*, **2013**, 1, 153-158		2
22	Electrophoretically-Deposited CdSe Quantum Dot Films for Electrochromic Displays and Smart Windows. *ACS Applied Nano Materials*, **2021**, 4, 6974-6984	5.6	2
21	Analysis of structural and chemical features of CdHgSe nanocrystals via resonance Raman spectroscopy **2014**,		1
20	Biosensing with thermosensitive fluorescent quantum dot-containing polymer particles **2012**,		1
19	Engineering of hybrid heterostructures from organic semiconductors and quantum dots for advanced photovoltaic applications **2012**,		1
18	Photoinduced processes in nanocrystals of cadmium selenide in an external electric field. *Journal of Applied Spectroscopy*, **2012**, 78, 834-841	0.7	1
17	Optical properties and aging of PbS quantum dots embedded in a porous matrix **2013**,		1
16	A film luminescent nanosensor based on a quantum dot□organic molecule complex. *Nanotechnologies in Russia*, **2010**, 5, 49-57	0.6	1

15	Excitonic properties of single CdSe nanowires and coupling to plasmonic nanocavities. *Physica Status Solidi (B): Basic Research*, **2010**, 247, 2498-2508	1.3	1
14	Nonlinear optical properties of oxidised CuS nanocrystals. *Quantum Electronics*, **1997**, 27, 722-726	1.8	1
13	Laser induced luminescence of dense films of CdSe/ZnS nanoparticles **2007**,		1
12	Emitters with different dimensionality: 2D cadmium chalcogenide nanoplatelets and 0D quantum dots in non-specific cell labeling and two-photon imaging. *Nanotechnology*, **2020**, 31, 435102	3.4	1
11	Electrostatic Deposition Kinetics of Colloidal Silver Nanoplates onto Optically and E-Beam Transparent Water-Insoluble Polycationic Films. *Journal of Physical Chemistry C*, **2021**, 125, 17870-17880	3.8	1
10	Zeta Potential-Based Control of CdSe/ZnS Quantum Dot Photoluminescence. *Journal of Physical Chemistry Letters*,4912-4917	6.4	1
9	Synthesis and Optical Properties of InS-Hosted Colloidal Zn-Cu-In-S Nanoplatelets. *ACS Omega*, **2021**, 6, 18939-18947	3.9	0
8	Water-Soluble Cadmium Selenide Quantum Dots with Controlled Surface Charge. *International Journal of Nanoscience*, **2019**, 18, 1940051	0.6	
7	Improving carrier injection in colloidal CdSe nanocrystals by embedding them in a pseudomorphic ZnSe/ZnMgSe quantum well structure. *Nanotechnology*, **2013**, 24, 435202	3.4	
6	Production of colloidal nanostructures for optical and spectral-analytic applications. *Journal of Applied Spectroscopy*, **2011**, 78, 81-86	0.7	
5	Bloch Modes and Group Velocity Delay in Coupled Resonator Chains **2008**, 63-76		
4	Optical properties of quantum dots in photonic dots **2002**, 4808, 136		
3	Nanoscale modification of thin film surfaces by voltage pulses in STM. *Microelectronic Engineering*, **1995**, 27, 109-112	2.5	
2	Influence of calcium ions on physical chemical characteristics of semiconductor quantum dots encapsulated by amphiphilic polymer and their efficiency of cellular uptake. *Journal of the Belarusian State University Chemistry*, **2020**, 3-16	0.1	
1	Optical Properties of Semiconductor Colloidal Quantum Wells. *NATO Science for Peace and Security Series B: Physics and Biophysics*, **2016**, 211-225	0.2	