

Igor Nabiev

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.

257
papers

7,192
citations

44
h-index

78
g-index

294
ext. papers

8,040
ext. citations

4
avg, IF

5.87
L-index

#	Paper	IF	Citations
257	Strong coupling effects in a plexciton system of gold nanostars and J-aggregates. <i>Journal of Luminescence</i> , 2022 , 242, 118557	3.8	1
256	Label-Free Detection of the Receptor-Binding Domain of the SARS-CoV-2 Spike Glycoprotein at Physiologically Relevant Concentrations Using Surface-Enhanced Raman Spectroscopy. <i>Biosensors</i> , 2022 , 12, 300	5.9	0
255	Designing Functionalized Polyelectrolyte Microcapsules for Cancer Treatment. <i>Nanomaterials</i> , 2021 , 11,	5.4	3
254	Anisotropic nanomaterials for asymmetric synthesis. <i>Nanoscale</i> , 2021 ,	7.7	2
253	Strong exciton-photon coupling with colloidal quantum dots in a tunable microcavity. <i>Applied Physics Letters</i> , 2021 , 119, 011102	3.4	1
252	Strong increase in the effective two-photon absorption cross-section of excitons in quantum dots due to the nonlinear interaction with localized plasmons in gold nanorods. <i>Nanoscale</i> , 2021 , 13, 4614-4623	7.7	1
251	pH-Sensing Platform Based on Light-Matter Coupling in Colloidal Complexes of Silver Nanoplates and J-Aggregates. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 1972-1979	3.8	4
250	Polariton-assisted manipulation of energy relaxation pathways: donor-acceptor role reversal in a tuneable microcavity. <i>Chemical Science</i> , 2021 , 12, 12794-12805	9.4	0
249	Multiphoton Deep-Tissue Imaging of Micrometastases and Disseminated Cancer Cells Using Conjugates of Quantum Dots and Single-Domain Antibodies. <i>Methods in Molecular Biology</i> , 2021 , 2350, 105-123	1.4	2
248	Enhancement of the quantum dot photoluminescence using transfer-printed porous silicon microcavities. <i>Journal of Physics: Conference Series</i> , 2020 , 1461, 012076	0.3	0
247	Al-, Ga-, Mg-, or Li-doped zinc oxide nanoparticles as electron transport layers for quantum dot light-emitting diodes. <i>Scientific Reports</i> , 2020 , 10, 7496	4.9	23
246	Effect of Spectral Overlap and Separation Distance on Exciton and Biexciton Quantum Yields and Radiative and Nonradiative Recombination Rates in Quantum Dots Near Plasmon Nanoparticles. <i>Annalen Der Physik</i> , 2020 , 532, 2000236	2.6	6
245	Determination of the Single-Exciton Two-Photon Absorption Cross Sections of Semiconductor Nanocrystals through the Measurement of Saturation of Their Two-Photon-Excited Photoluminescence. <i>ACS Photonics</i> , 2020 , 7, 831-836	6.3	11
244	Tempo-spectral multiplexing in flow cytometry with lifetime detection using QD-encoded polymer beads. <i>Scientific Reports</i> , 2020 , 10, 653	4.9	8
243	Enhancement of the photoluminescence of semiconductor nanocrystals in transfer-printed microcavities based on freestanding porous silicon photonic crystals. <i>Journal of Physics: Conference Series</i> , 2020 , 1439, 012018	0.3	3
242	Enhancement of spontaneous emission of semiconductor quantum dots inside one-dimensional porous silicon photonic crystals. <i>Optics Express</i> , 2020 , 28, 22705-22717	3.3	22
241	Enhanced spontaneous emission from two-photon-pumped quantum dots in a porous silicon microcavity. <i>Optics Letters</i> , 2020 , 45, 5364-5367	3	2

240	Weak Coupling between Light and Matter in Photonic Crystals Based on Porous Silicon Responsible for the Enhancement of Fluorescence of Quantum Dots under Two-Photon Excitation. <i>JETP Letters</i> , 2020 , 112, 537-542	1.2	1
239	Stimulus-Sensitive Theranostic Delivery Systems Based on Microcapsules Encoded with Quantum Dots and Magnetic Nanoparticles. <i>Methods in Molecular Biology</i> , 2020 , 2135, 199-212	1.4	0
238	Multiplexed Detection of Cancer Serum Antigens with a Quantum Dot-Based Lab-on-Bead System. <i>Methods in Molecular Biology</i> , 2020 , 2135, 225-236	1.4	1
237	Controlling Charge Transfer from Quantum Dots to Polyelectrolyte Layers Extends Prospective Applications of Magneto-Optical Microcapsules. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 35882-35894	9.5	7
236	Selection of the Optimal Chromatography Medium for Purification of Quantum Dots and Their Bioconjugates. <i>Chemistry of Materials</i> , 2020 , 32, 9078-9089	9.6	0
235	Synergy of Excitation Enhancement and the Purcell Effect for Strong Photoluminescence Enhancement in a Thin-Film Hybrid Structure Based on Quantum Dots and Plasmon Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 8018-8025	6.4	6
234	Quantum Dot-Polyfluorene Composites for White-Light-Emitting Quantum Dot-Based LEDs. <i>Nanomaterials</i> , 2020 , 10,	5.4	3
233	Comparative Advantages and Limitations of Quantum Dots in Protein Array Applications. <i>Methods in Molecular Biology</i> , 2020 , 2135, 259-273	1.4	2
232	Bioimaging Tools Based on Polyelectrolyte Microcapsules Encoded with Fluorescent Semiconductor Nanoparticles: Design and Characterization of the Fluorescent Properties. <i>Nanoscale Research Letters</i> , 2019 , 14, 29	5	14
231	Double Rabi Splitting in a Strongly Coupled System of Core-Shell Au@Ag Nanorods and J-Aggregates of Multiple Fluorophores. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 6137-6143	6.4	15
230	Cancer Cell Targeting With Functionalized Quantum Dot-Encoded Polyelectrolyte Microcapsules. <i>Frontiers in Chemistry</i> , 2019 , 7, 34	5	22
229	Spectral and Spatial Characteristics of the Electromagnetic Modes in a Tunable Optical Microcavity Cell for Studying Hybrid Light-Matter States. <i>JETP Letters</i> , 2019 , 109, 12-17	1.2	5
228	Remarkably enhanced photoelectrical efficiency of bacteriorhodopsin in quantum dot - Purple membrane complexes under two-photon excitation. <i>Biosensors and Bioelectronics</i> , 2019 , 137, 117-122	11.8	6
227	Optical Properties of Quantum Dots with a Core-Multishell Structure. <i>JETP Letters</i> , 2019 , 109, 112-115	1.2	6
226	Scanning Near-Field Optical Nanospectrophotometry: a New Method for Nanoscale Measurements of the Absorption Spectra of Single Nanoobjects. <i>Technical Physics Letters</i> , 2019 , 45, 138-141	0.7	
225	Graphene quantum dots unraveling: Green synthesis, characterization, radiolabeling with ^{99m} Tc, in vivo behavior and mutagenicity. <i>Materials Science and Engineering C</i> , 2019 , 102, 405-414	8.3	26
224	Graphene-quantum dot hybrid nanostructures with controlled optical and photoelectric properties for solar cell applications. <i>Russian Chemical Reviews</i> , 2019 , 88, 370-386	6.8	10
223	Nanoparticles With a Specific Size and Surface Charge Promote Disruption of the Secondary Structure and Amyloid-Like Fibrillation of Human Insulin Under Physiological Conditions. <i>Frontiers in Chemistry</i> , 2019 , 7, 480	5	15

222	Conversion of Semiconductor Nanoparticles to Plasmonic Materials by Targeted Substitution of Surface-Bound Organic Ligands. <i>Technical Physics Letters</i> , 2019 , 45, 317-320	0.7	
221	Label-Free Flow Multiplex Biosensing via Photonic Crystal Surface Mode Detection. <i>Scientific Reports</i> , 2019 , 9, 8745	4.9	18
220	Interactions of the Rad51 inhibitor DIDS with human and bovine serum albumins: Optical spectroscopy and isothermal calorimetry approaches. <i>Biochimie</i> , 2019 , 167, 187-197	4.6	1
219	Biofunctionalized Polyelectrolyte Microcapsules Encoded with Fluorescent Semiconductor Nanocrystals for Highly Specific Targeting and Imaging of Cancer Cells. <i>Photonics</i> , 2019 , 6, 117	2.2	4
218	Engineering of fluorescent biomaging tools for cancer cell targeting based on polyelectrolyte microcapsules encoded with quantum dots 2019 ,		1
217	Polariton-assisted splitting of broadband emission spectra of strongly coupled organic dye excitons in tunable optical microcavity. <i>Optics Express</i> , 2019 , 27, 4077-4089	3.3	9
216	Physical Interactions of Biopolymers with Nanoparticles. <i>Bulletin of the Lebedev Physics Institute</i> , 2019 , 46, 306-308	0.5	
215	Induced Transparency in PlasmonExciton Nanostructures for Sensing Applications. <i>Laser and Photonics Reviews</i> , 2019 , 13, 1800176	8.3	24
214	Enhancement of Biexciton Emission Due to Long-Range Interaction of Single Quantum Dots and Gold Nanorods in a Thin-Film Hybrid Nanostructure. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 481-486	6.4	14
213	Energy Transfer Between Single Semiconductor Quantum Dots and Organic Dye Molecules. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018 , 232, 1513-1526	3.1	4
212	Next-Generation Theranostic Agents Based on Polyelectrolyte Microcapsules Encoded with Semiconductor Nanocrystals: Development and Functional Characterization. <i>Nanoscale Research Letters</i> , 2018 , 13, 30	5	11
211	Light-matter interaction in the strong coupling regime: configurations, conditions, and applications. <i>Nanoscale</i> , 2018 , 10, 3589-3605	7.7	103
210	Dependence of Nanoparticle Toxicity on Their Physical and Chemical Properties. <i>Nanoscale Research Letters</i> , 2018 , 13, 44	5	421
209	Single- and two-photon imaging of human micrometastases and disseminated tumour cells with conjugates of nanobodies and quantum dots. <i>Scientific Reports</i> , 2018 , 8, 4595	4.9	26
208	Assessment of DNA-PKcs kinase activity by quantum dot-based microarray. <i>Scientific Reports</i> , 2018 , 8, 10968	4.9	3
207	Effect of the Semiconductor Quantum Dot Shell Structure on Fluorescence Quenching by Acridine Ligand. <i>JETP Letters</i> , 2018 , 107, 233-237	1.2	5
206	Ligand-Mediated Photobrightening and Photodarkening of CdSe/ZnS Quantum Dot Ensembles. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 15761-15771	3.8	25
205	Study of the Optical Properties of CdZnSe/ZnS-Quantum DotAu-Nanoparticle Complexes. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2018 , 124, 494-500	0.7	5

204	Optical Properties of Core-Multishell Quantum Dots. <i>KnE Energy</i> , 2018 , 3, 449		2
203	Multiparametric detection of bacterial contamination based on the photonic crystal surface mode detection. <i>Bulletin of Russian State Medical University</i> , 2018 , 19-24	0.4	
202	Comparison of fluorescence excitation modes for cdse semi-conductor quantum dots used in medical research. <i>Bulletin of Russian State Medical University</i> , 2018 , 39-45	0.4	
201	Photoluminescence Properties of Thin-Film Nanohybrid Material Based on Quantum Dots and Gold Nanorods. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2018 , 125, 726-730	0.7	0
200	From colloidal CdSe quantum dots to microscale optically anisotropic supercrystals through bottom-up self-assembly. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12904-12911	7.1	4
199	Optimization of Excitation and Detection Modes to Detect Ultra-Small Amounts of Semiconductor Quantum Dots Based on Cadmium Selenide. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2018 , 125, 760-764	0.7	
198	Quantum Dots Improve Photovoltaic Properties of Purple Membranes under Near-Infrared Excitation. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2018 , 125, 747-750	0.7	0
197	Advanced Nanotools for Imaging of Solid Tumors and Circulating and Disseminated Cancer Cells. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2018 , 125, 703-707	0.7	1
196	Near Infrared LED Based on PbS Nanocrystals. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2018 , 125, 751-755	0.7	2
195	A versatile tunable microcavity for investigation of light-matter interaction. <i>Review of Scientific Instruments</i> , 2018 , 89, 053105	1.7	7
194	Semiconductor quantum dot toxicity in a mouse in vivo model. <i>Journal of Physics: Conference Series</i> , 2017 , 784, 012013	0.3	2
193	Modeling of the optical properties of porous silicon photonic crystals in the visible spectral range. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2017 , 122, 79-82	0.7	2
192	A novel design of a scanning probe microscope integrated with an ultramicrotome for serial block-face nanotomography. <i>Review of Scientific Instruments</i> , 2017 , 88, 023701	1.7	12
191	The influence of the quantum dot/polymethylmethacrylate composite preparation method on the stability of its optical properties under laser radiation. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2017 , 122, 69-73	0.7	7
190	A highly efficient white-light-emitting diode based on a two-component polyfluorene/quantum dot composite. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2017 , 122, 12-15	0.7	5
189	Ultrasmall Quantum Dots: A Tool for in Vitro and in Vivo Fluorescence Imaging. <i>Journal of Physics: Conference Series</i> , 2017 , 784, 012033	0.3	
188	The effect of plasmon silver and exciton semiconductor nanoparticles on the bacteriorhodopsin photocycle in Halobacterium salinarum membranes. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2017 , 122, 30-35	0.7	1
187	Engineering of Optically Encoded Microbeads with FRET-Free Spatially Separated Quantum-Dot Layers for Multiplexed Assays. <i>ChemPhysChem</i> , 2017 , 18, 970-979	3.2	18

186	Resonant transfer of one- and two-photon excitations in quantum dotBacteriorhodopsin complexes. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2017 , 122, 36-41	0.7	2
185	Quenching of quantum dots luminescence under light irradiation and its influence on the biological application. <i>Journal of Physics: Conference Series</i> , 2017 , 784, 012014	0.3	3
184	Improvement of antigen detection efficiency with the use of two-dimensional photonic crystal as a substrate. <i>Journal of Physics: Conference Series</i> , 2017 , 784, 012018	0.3	
183	Quantification and imaging of HER2 protein using nanocrystals conjugated with single-domain antibodies. <i>Journal of Physics: Conference Series</i> , 2017 , 784, 012016	0.3	1
182	An instrumental approach to combining confocal microspectroscopy and 3D scanning probe nanotomography. <i>Ultramicroscopy</i> , 2017 , 182, 118-123	3.1	9
181	Nanostructures based on quantum dots for application in promising methods of single- and multiphoton imaging and diagnostics. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2017 , 122, 1-7	0.7	
180	Ultrasmall quantum dots for fluorescent bioimaging in vivo and in vitro. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2017 , 122, 8-11	0.7	5
179	Quantum-dot-based suspension microarray for multiplex detection of lung cancer markers: preclinical validation and comparison with the Luminex xMAP system. <i>Scientific Reports</i> , 2017 , 7, 44668	4.9	32
178	Quantum Dot-Based Hybrid Nanostructures and Energy Transfer on the Nanoscale for Single- and Multi-Photon Imaging and Cancer Diagnostics. <i>Journal of Physics: Conference Series</i> , 2017 , 784, 012041	0.3	
177	Use of semiconductor nanocrystals to encode microbeads for multiplexed analysis of biological samples. <i>Journal of Physics: Conference Series</i> , 2017 , 784, 012012	0.3	
176	Hybrid States of Biomolecules in Strong-Coupling Regime. <i>Nanotechnologies in Russia</i> , 2017 , 12, 327-337	0.6	1
175	Chapter 5 Energy Transfer Mechanisms in Nanobiohybrid Structures Based on Quantum Dots and Photosensitive Membrane Proteins 2017 , 167-206		
174	The effect of silver nanoparticles on the photocycle of bacteriorhodopsin of purple membranes of <i>Halobacterium salinarum</i> . <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2016 , 121, 210-219	0.7	5
173	Quantum Dot-Based Nanotools for Bioimaging, Diagnostics, and Drug Delivery. <i>ChemBioChem</i> , 2016 , 17, 2103-2114	3.8	113
172	Two-photon-induced Förster Resonance Energy Transfer in a Quantum dotBacteriorhodopsin Hybrid Material. <i>Materials Today: Proceedings</i> , 2016 , 3, A1-A5	1.4	
171	Nanosized Fluorescent Diagnostic Probes Consisting of Single-domain Antibodies Conjugated with Quantum Dots. <i>Materials Today: Proceedings</i> , 2016 , 3, 518-522	1.4	
170	Multiphoton Imaging of Tumor Biomarkers in situ Using Single-domain Antibodies Conjugated with Quantum Dots in a Set Orientation. <i>Materials Today: Proceedings</i> , 2016 , 3, 523-526	1.4	4
169	Submicron QDs-containing Particles as Nano-thermosensors. <i>Materials Today: Proceedings</i> , 2016 , 3, 617-621	0.3	1

168	High Quantum Yield CdSe/ZnS/CdS/ZnS Multishell Quantum Dots for Biosensing and Optoelectronic Applications. <i>Materials Today: Proceedings</i> , 2016 , 3, 104-108	1.4	18
167	Raman and SERS Spectroscopy of D96N Mutant Bacteriorhodopsin. <i>Materials Today: Proceedings</i> , 2016 , 3, 497-501	1.4	2
166	Silver Nanoparticles Strongly Affect the Properties of Bacteriorhodopsin, a Photosensitive Protein of Halobacterium Salinarium Purple Membranes. <i>Materials Today: Proceedings</i> , 2016 , 3, 502-506	1.4	5
165	Design, Synthesis, and Use of MMP-2 Inhibitor-Conjugated Quantum Dots in Functional Biochemical Assays. <i>Bioconjugate Chemistry</i> , 2016 , 27, 1067-81	6.3	6
164	Photoconductivity of composites based on CdSe quantum dots and low-band-gap polymers. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016 , 79, 206-211	3	13
163	Microstructure and Optical Properties of Composites Consisting of Nanoporous Stretched Polypropylene Doped with Liquid Crystals and Quantum Dots at a High Concentration. <i>Oriental Journal of Chemistry</i> , 2016 , 32, 2863-2872	0.8	0
162	Fabrication of composite materials from semiconductor quantum dots and organic polymers for optoelectronics and biomedicine: role of surface ligands. <i>Russian Chemical Bulletin</i> , 2016 , 65, 2568-2577	1.7	9
161	Modulation of quantum dot photoluminescence in porous silicon photonic crystals as a function of the depth of their penetration 2016 ,		7
160	Scanning near-field optical nanotomography: a new method of multiparametric 3D investigation of nanostructural materials. <i>Technical Physics Letters</i> , 2016 , 42, 171-174	0.7	1
159	Controllable photo-brightening/photo-darkening of semiconductor quantum dots under laser irradiation 2016 ,		3
158	Charge transfer and separation in photoexcited quantum dot-based systems. <i>Nano Today</i> , 2016 , 11, 189-210		71
157	Quantum dot surface chemistry and functionalization for cell targeting and imaging. <i>Bioconjugate Chemistry</i> , 2015 , 26, 609-24	6.3	173
156	Detection of carcinoembryonic antigen using single-domain or full-size antibodies stained with quantum dot conjugates. <i>Analytical Biochemistry</i> , 2015 , 478, 26-32	3.1	18
155	Effects of surface ligands and solvents on quantum dot photostability under pulsed UV laser irradiation 2015 ,		1
154	Quantum dot-based lab-on-a-bead system for multiplexed detection of free and total prostate-specific antigens in clinical human serum samples. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015 , 11, 1065-75	6	56
153	Nano-bio Hybrid Materials for a New Generation of High-throughput Diagnostic Systems. <i>Physics Procedia</i> , 2015 , 73, 95-99		
152	Two-photon-induced Förster resonance energy transfer in a hybrid material engineered from quantum dots and bacteriorhodopsin. <i>Optics Letters</i> , 2015 , 40, 1440-3	3	15
151	Energy Transfer Processes Under One-and Two-photon Excitation of Nano-biohybrid Structures based on Semiconductor Quantum Dots and Purple Membranes. <i>Physics Procedia</i> , 2015 , 73, 143-149		1

150	Oriented Conjugates of Single-domain Antibodies and Fluorescent Quantum Dots for Highly Sensitive Detection of Tumor-associated Biomarkers in Cells and Tissues. <i>Physics Procedia</i> , 2015 , 73, 228-234	5	
149	High-resolution Scanning Near-field Optical Nanotomography: A Technique for 3D Multimodal Nanoscale Characterization of Nano-biophotonic Materials. <i>Physics Procedia</i> , 2015 , 73, 168-172	2	
148	Multiplexed Analysis of Serum Breast and Ovarian Cancer Markers by Means of Suspension Bead-quantum Dot Microarrays. <i>Physics Procedia</i> , 2015 , 73, 235-240	2	
147	Multifunctional Nanoprobes for Cancer Cell Targeting, Imaging and Anticancer Drug Delivery. <i>Physics Procedia</i> , 2015 , 73, 216-220	4	
146	ANALYTICAL CHARACTERISTICS OF FLUORESCENT SUSPENSION NANOCRYSTAL-ENCODED MICROARRAY ADAPTED FOR SIMULTANEOUS QUANTITATIVE DETECTION OF FREE AND TOTAL PSA IN SERUM SAMPLES 2015 , 14, 31-38	0.4	
145	Engineering a Robust Photovoltaic Device with Quantum Dots and Bacteriorhodopsin. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 16710-16717	3.8	44
144	Nanobiohybrid structures based on the organized films of photosensitive membrane proteins. <i>Russian Chemical Reviews</i> , 2014 , 83, 38-81	6.8	8
143	Highly sensitive single domain antibody-quantum dot conjugates for detection of HER2 biomarker in lung and breast cancer cells. <i>ACS Nano</i> , 2014 , 8, 5682-95	16.7	74
142	Multiphoton imaging of tumor biomarkers with conjugates of single-domain antibodies and quantum dots. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014 , 10, 1701-9	6	51
141	Photoinduced modification of quantum dot optical properties affects bacteriorhodopsin photocycle in a (quantum dot)- bacteriorhodopsin hybrid material. <i>Journal of Physics: Conference Series</i> , 2014 , 541, 012045	0.3	2
140	Hybrid bulk heterojunction solar cells based on low band gap polymers and CdSe nanocrystals 2014		2
139	Development and potential applications of microarrays based on fluorescent nanocrystal-encoded beads for multiplexed cancer diagnostics 2014 ,		4
138	Surface ligands affect photoinduced modulation of the quantum dots optical performance 2014 ,		4
137	Photoluminescence quantum yield of CdSe-ZnS/CdS/ZnS core-multishell quantum dots approaches 100% due to enhancement of charge carrier confinement 2014 ,		18
136	Linear and nonlinear optical effects induced by energy transfer from semiconductor nanoparticles to photosynthetic biological systems. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2014 , 20, 17-32	16.4	19
135	Oriented conjugation of single-domain antibodies and quantum dots. <i>Methods in Molecular Biology</i> , 2014 , 1199, 129-40	1.4	7
134	Advanced procedure for oriented conjugation of full-size antibodies with quantum dots. <i>Methods in Molecular Biology</i> , 2014 , 1199, 55-66	1.4	1
133	Nano-biophotonic hybrid materials with controlled FRET efficiency engineered from quantum dots and bacteriorhodopsin. <i>Laser Physics Letters</i> , 2013 , 10, 085901	1.5	16

132	Current methods of the synthesis of luminescent semiconductor nanocrystals for biomedical applications. <i>Nanotechnologies in Russia</i> , 2013 , 8, 409-422	0.6	3
131	Comparative advantages and limitations of the basic metrology methods applied to the characterization of nanomaterials. <i>Nanoscale</i> , 2013 , 5, 8781-98	7.7	36
130	Combined scanning probe nanotomography and optical microspectroscopy: a correlative technique for 3D characterization of nanomaterials. <i>ACS Nano</i> , 2013 , 7, 8953-62	16.7	27
129	Structural and functional aspects of the interaction of proteins and peptides with nanoparticles. <i>Nanotechnologies in Russia</i> , 2013 , 8, 700-720	0.6	6
128	Hybrid heterostructures based on aromatic polyimide and semiconductor CdSe quantum dots for photovoltaic applications. <i>Applied Physics Letters</i> , 2013 , 103, 063302	3.4	22
127	Basic principles and current trends in colloidal synthesis of highly luminescent semiconductor nanocrystals. <i>Chemistry - A European Journal</i> , 2013 , 19, 1534-46	4.8	80
126	Large enhancement of nonlinear optical response in a hybrid nanobiomaterial consisting of bacteriorhodopsin and cadmium telluride quantum dots. <i>ACS Nano</i> , 2013 , 7, 2154-60	16.7	27
125	Controlled antibody/(bio-) conjugation of inorganic nanoparticles for targeted delivery. <i>Advanced Drug Delivery Reviews</i> , 2013 , 65, 677-88	18.5	155
124	High-resolution 3D structural and optical analyses of hybrid or composite materials by means of scanning probe microscopy combined with the ultramicrotome technique: an example of application to engineering of liquid crystals doped with fluorescent quantum dots 2013 ,		3
123	New directions in quantum dot-based cytometry detection of cancer serum markers and tumor cells. <i>Critical Reviews in Oncology/Hematology</i> , 2013 , 86, 1-14	7	46
122	Quantum dot-containing polymer particles with thermosensitive fluorescence. <i>Biosensors and Bioelectronics</i> , 2013 , 39, 187-93	11.8	30
121	Chemical substitution of Cd ions by Hg in CdSe nanorods and nanodots: Spectroscopic and structural examination. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012 , 177, 744-749	3.1	19
120	Oriented conjugates of single-domain antibodies and quantum dots: toward a new generation of ultrasmall diagnostic nanoprobe. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012 , 8, 516-25 ⁶		116
119	Comparative efficiency of energy transfer from CdSe-ZnS quantum dots or nanorods to organic dye molecules. <i>ChemPhysChem</i> , 2012 , 13, 330-5	3.2	25
118	Novel cholesteric materials doped with CdSe/ZnS quantum dots with photo- and electro-tunable circularly polarized emission 2012 ,		3
117	Quantum dots induce charge-specific amyloid-like fibrillation of insulin at physiological conditions 2012 ,		4
116	Bi-photon imaging and diagnostics using ultra-small diagnostic probes engineered from semiconductor nanocrystals and single-domain antibodies 2012 ,		2
115	Semiconductor quantum dots affect fluidity of purple membrane from <i>Halobacterium salinarum</i> through disruption of bacteriorhodopsin trimer organization 2012 ,		1

114	Extension of the spectral range of bacteriorhodopsin functional activity by energy transfer from quantum dots 2012 ,		1
113	Biosensing with thermosensitive fluorescent quantum dot-containing polymer particles 2012 ,		1
112	Thin films and assemblies of photosensitive membrane proteins and colloidal nanocrystals for engineering of hybrid materials with advanced properties. <i>Advances in Colloid and Interface Science</i> , 2012 , 183-184, 14-29	14.3	17
111	The photophysics of porous silicon: technological and biomedical implications. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 13890-902	3.6	28
110	Controlled FRET efficiency in nano-bio hybrid materials made from semiconductor quantum dots and bacteriorhodopsin 2012 ,		1
109	Low-field magnetic circular dichroism in silver and gold colloidal nanoparticles of different sizes, shapes, and aggregation states 2012 ,		14
108	Optically and electrically controlled circularly polarized emission from cholesteric liquid crystal materials doped with semiconductor quantum dots. <i>Advanced Materials</i> , 2012 , 24, 6216-22	24	59
107	Oriented conjugates of monoclonal and single-domain antibodies with quantum dots for flow cytometry and immunohistochemistry diagnostic applications 2012 ,		3
106	Engineering of hybrid heterostructures from organic semiconductors and quantum dots for advanced photovoltaic applications 2012 ,		1
105	Molecular interaction of proteins and peptides with nanoparticles. <i>ACS Nano</i> , 2012 , 6, 4585-602	16.7	324
104	Implications of protein structure instability: from physiological to pathological secondary structure. <i>Biopolymers</i> , 2012 , 97, 577-88	2.2	11
103	Molecular beacons involving highly luminescent colloidal quantum dots. <i>Journal of Nanophotonics</i> , 2012 , 6, 060304	1.1	2
102	Advanced procedures for labeling of antibodies with quantum dots. <i>Analytical Biochemistry</i> , 2011 , 416, 180-5	3.1	31
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