

Alexander Baranov

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53
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ext. citations

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L-index

#	Paper	IF	Citations
301	Energy Transfer in Aqueous Solutions of Oppositely Charged CdSe/ZnS Core/Shell Quantum Dots and in Quantum Dot Nanogold Assemblies. <i>Nano Letters</i> , 2004 , 4, 451-457	11.5	211
300	Effect of ZnS shell thickness on the phonon spectra in CdSe quantum dots. <i>Physical Review B</i> , 2003 , 68,	3.3	203
299	Application of semiconductor quantum dots in bioimaging and biosensing. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 6701-6727	7.3	178
298	Intrinsic Chirality of CdSe/ZnS Quantum Dots and Quantum Rods. <i>Nano Letters</i> , 2015 , 15, 2844-51	11.5	123
297	Colloidal quantum dots for optoelectronics. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13252-13275	13	107
296	Annealing-induced structural changes of carbon onions: High-resolution transmission electron microscopy and Raman studies. <i>Carbon</i> , 2014 , 73, 78-86	10.4	107
295	Anomalous size-dependent decay of low-energy luminescence from PbS quantum dots in colloidal solution. <i>ACS Nano</i> , 2012 , 6, 8913-21	16.7	80
294	sp-sp-Hybridized Atomic Domains Determine Optical Features of Carbon Dots. <i>ACS Nano</i> , 2019 , 13, 10737-10744	16.7	74
293	Functionalized nanocrystal-tagged fluorescent polymer beads: synthesis, physicochemical characterization, and immunolabeling application. <i>Analytical Biochemistry</i> , 2004 , 334, 257-65	3.1	72
292	Electroabsorption by 0D, 1D, and 2D nanocrystals: a comparative study of CdSe colloidal quantum dots, nanorods, and nanoplatelets. <i>ACS Nano</i> , 2014 , 8, 7678-86	16.7	63
291	Controlled self-assembly of nanocrystals into polycrystalline fluorescent dendrites with energy-transfer properties. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 2048-52	16.4	62
290	Chlorin e6-ZnSe/ZnS quantum dots based system as reagent for photodynamic therapy. <i>Nanotechnology</i> , 2015 , 26, 055102	3.4	61
289	Analysis of strain and intermixing in single-layer GeBi quantum dots using polarized Raman spectroscopy. <i>Physical Review B</i> , 2006 , 73,	3.3	57
288	Two-photon transitions in systems with semiconductor quantum dots. <i>Physical Review B</i> , 1996 , 54, 8627-8632	3.3	56
287	Induction of Chirality in Two-Dimensional Nanomaterials: Chiral 2D MoS Nanostructures. <i>ACS Nano</i> , 2018 , 12, 954-964	16.7	54
286	Exciton-phonon coupling in semiconductor quantum dots: Resonant Raman scattering. <i>Physical Review B</i> , 1997 , 56, 7491-7502	3.3	54
285	DNA-assisted formation of quasi-nanowires from fluorescent CdSe/ZnS nanocrystals. <i>Nanotechnology</i> , 2006 , 17, 581-587	3.4	52

284	Dislocation-induced chirality of semiconductor nanocrystals. <i>Nano Letters</i> , 2015 , 15, 1710-5	11.5	51
283	Carbon dots produced via space-confined vacuum heating: maintaining efficient luminescence in both dispersed and aggregated states. <i>Nanoscale Horizons</i> , 2019 , 4, 388-395	10.8	50
282	Energy Level Modification with Carbon Dot Interlayers Enables Efficient Perovskite Solar Cells and Quantum Dot Based Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2020 , 30, 1910530	15.6	47
281	Enantioselective cellular uptake of chiral semiconductor nanocrystals. <i>Nanotechnology</i> , 2016 , 27, 075102	3.4	47
280	Completely Chiral Optical Force for Enantioseparation. <i>Scientific Reports</i> , 2016 , 6, 36884	4.9	44
279	Giant Optical Activity of Quantum Dots, Rods, and Disks with Screw Dislocations. <i>Scientific Reports</i> , 2015 , 5, 14712	4.9	43
278	Quantum-dot supercrystals for future nanophotonics. <i>Scientific Reports</i> , 2013 , 3,	4.9	43
277	Nanometer-scale mapping of the strain and Ge content of Ge/Si quantum dots using enhanced Raman scattering by the tip of an atomic force microscope. <i>Physical Review B</i> , 2011 , 83,	3.3	41
276	Molecular Recognition of Biomolecules by Chiral CdSe Quantum Dots. <i>Scientific Reports</i> , 2016 , 6, 24177	4.9	40
275	Spontaneous emission of guided polaritons by quantum dot coupled to metallic nanowire: beyond the dipole approximation. <i>Optics Express</i> , 2009 , 17, 17570-81	3.3	40
274	Anisotropy of electron-phonon interaction in nanoscale CdSe platelets as seen via off-resonant and resonant Raman spectroscopy. <i>Physical Review B</i> , 2013 , 88,	3.3	36
273	Amino Functionalization of Carbon Dots Leads to Red Emission Enhancement. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5111-5116	6.4	33
272	Luminescent isolated diamond particles with controllably embedded silicon-vacancy colour centres. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 062001	3	33
271	FRET between Close-Packed Quasi-Monodispersed PbS QDs in a Porous Matrix. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 6531-6535	3.8	32
270	Raman characterization and UV optical absorption studies of surface plasmon resonance in multishell nanographite. <i>Diamond and Related Materials</i> , 2011 , 20, 205-209	3.5	32
269	Resonant energy transfer in quantum dots: Frequency-domain luminescent spectroscopy. <i>Physical Review B</i> , 2008 , 78,	3.3	32
268	Exciton-LO-phonon interaction in CuCl spherical quantum dots studied by resonant hyper-Raman spectroscopy. <i>Physical Review B</i> , 1997 , 56, 10332-10337	3.3	31
267	Photoluminescence of Ag-In-S/ZnS quantum dots: Excitation energy dependence and low-energy electronic structure. <i>Nano Research</i> , 2019 , 12, 1595-1603	10	30

266	Cadmium Chalcogenide Nano-Heteroplatelets: Creating Advanced Nanostructured Materials by Shell Growth, Substitution, and Attachment. <i>Small</i> , 2017 , 13, 1702300	11	30
265	Intraband carrier relaxation in quantum dots embedded in doped heterostructures. <i>Physical Review B</i> , 2003 , 68,	3.3	30
264	Influence of the solvent environment on luminescent centers within carbon dots. <i>Nanoscale</i> , 2020 , 12, 602-609	7.7	30
263	Magneto-Fluorescent Microbeads for Bacteria Detection Constructed from Superparamagnetic FeO Nanoparticles and AIS/ZnS Quantum Dots. <i>Analytical Chemistry</i> , 2019 , 91, 12661-12669	7.8	29
262	Carbon-based interlayers in perovskite solar cells. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 124, 109774	16.2	29
261	Synthesis, characterization and absorption saturation of Co:ZnAl ₂ O ₄ (gahnite) transparent ceramic and glass-ceramics: A comparative study. <i>Journal of Alloys and Compounds</i> , 2017 , 725, 998-1005	5.7	28
260	PbS Quantum Dots in a Porous Matrix: Optical Characterization. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 12318-12324	3.8	28
259	Long phase-relaxation time in CuCl quantum dots: Four-wave-mixing signals analogous to dye molecules in polymers. <i>Physical Review B</i> , 1998 , 57, R15084-R15087	3.3	28
258	Anomalous features of resonant hyper-Raman scattering in CuBr quantum dots: Evidence of exciton-phonon-coupled states similar to molecules. <i>Physical Review B</i> , 1996 , 54, R8321-R8324	3.3	28
257	Energy transfer in complexes of water-soluble quantum dots and chlorin e6 molecules in different environments. <i>Beilstein Journal of Nanotechnology</i> , 2013 , 4, 895-902	3	27
256	Submicron polymer particles containing fluorescent semiconductor nanocrystals CdSe/ZnS for bioassays. <i>Nanomedicine</i> , 2011 , 6, 195-209	5.6	27
255	Enhanced intraband carrier relaxation in quantum dots due to the effect of plasmon-phonon density of states in doped heterostructures. <i>Physical Review B</i> , 2005 , 71,	3.3	27
254	Self-organization of colloidal PbS quantum dots into highly ordered superlattices. <i>Langmuir</i> , 2015 , 31, 506-13	4	26
253	Chiral Optical Properties of Tapered Semiconductor Nanoscrolls. <i>ACS Nano</i> , 2017 , 11, 7508-7515	16.7	24
252	Optical activity of chirally distorted nanocrystals. <i>Journal of Applied Physics</i> , 2016 , 119, 194302	2.5	24
251	Shape-induced optical activity of chiral nanocrystals. <i>Optics Letters</i> , 2016 , 41, 2438-41	3	24
250	Influence of CoO addition on phase separation and crystallization of glasses of the ZnO-Al ₂ O ₃ -Bi ₂ O ₃ -TiO ₂ system. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 3928-3939	3.9	23
249	Comparative analysis of Raman spectra of PbS macro- and nanocrystals. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2010 , 109, 268-271	0.7	23

248	Size-selective two-photon spectroscopy of CuCl spherical quantum dots. <i>Physical Review B</i> , 1997 , 55, 15675-15680	3.3	23
247	Lab-in-a-drop: controlled self-assembly of CdSe/ZnS quantum dots and quantum rods into polycrystalline nanostructures with desired optical properties. <i>Nanotechnology</i> , 2007 , 18, 185602	3.4	23
246	Resonant hyper-Raman and second-harmonic scattering in a CdS quantum-dot system. <i>Physical Review B</i> , 1996 , 53, R1721-R1724	3.3	23
245	Chiral recognition of optically active CoFe ₂ O ₄ magnetic nanoparticles by CdSe/CdS quantum dots stabilised with chiral ligands. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 1692-1698	7.1	22
244	Field-Induced Broadening of Electroabsorption Spectra of Semiconductor Nanorods and Nanoplatelets. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 2379-2385	3.8	22
243	Optical Activity of Chiral Nanoscrolls. <i>Advanced Optical Materials</i> , 2017 , 5, 1600982	8.1	21
242	Enantioselective cytotoxicity of ZnS:Mn quantum dots in A549 cells. <i>Chirality</i> , 2017 , 29, 403-408	2.1	21
241	Excitation Energy Dependence of the Photoluminescence Quantum Yield of Core/Shell CdSe/CdS Quantum Dots and Correlation with Circular Dichroism. <i>Chemistry of Materials</i> , 2018 , 30, 465-471	9.6	21
240	Chiral quantum supercrystals with total dissymmetry of optical response. <i>Scientific Reports</i> , 2016 , 6, 23321	2.1	21
239	Engineering Optical Activity of Semiconductor Nanocrystals via Ion Doping. <i>Nanophotonics</i> , 2016 , 5, 573-578	6.38	21
238	Ligand-Dependent Morphology and Optical Properties of Lead Sulfide Quantum Dot Superlattices. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 25061-25067	3.8	21
237	Sellmeier equations, group velocity dispersion, and thermo-optic dispersion formulas for CaLnAlO ₄ (Ln = Y, Gd) laser host crystals. <i>Optics Letters</i> , 2017 , 42, 2275-2278	3	20
236	Electrically controlled polarized photoluminescence of CdSe/ZnS nanorods embedded in a liquid crystal template. <i>Nanotechnology</i> , 2012 , 23, 325201	3.4	20
235	Calibration of the spectral sensitivity of instruments for the near infrared region. <i>Journal of Applied Spectroscopy</i> , 2011 , 78, 433-439	0.7	20
234	New many-body mechanism of intraband carrier relaxation in quantum dots embedded in doped heterostructures. <i>Solid State Communications</i> , 2003 , 128, 219-223	1.6	20
233	Toward Bright Red-Emissive Carbon Dots through Controlling Interaction among Surface Emission Centers. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 8121-8127	6.4	20
232	Size and Temperature Dependencies of the Low-Energy Electronic Structure of PbS Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 20721-20726	3.8	19
231	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

230	Quantum dot energy relaxation mediated by plasmon emission in doped covalent semiconductor heterostructures. <i>Physical Review B</i> , 2007 , 76,	3.3	19
229	Self-assembly of charged microclusters of CdSe/ZnS core/shell nanodots and nanorods into hierarchically ordered colloidal arrays. <i>Nanotechnology</i> , 2006 , 17, 4223-8	3.4	19
228	Polarized Raman spectroscopy of multilayer GeBi(001) quantum dot heterostructures. <i>Journal of Applied Physics</i> , 2004 , 96, 2857-2863	2.5	19
227	Mixing of quantum states: A new route to creating optical activity. <i>Scientific Reports</i> , 2016 , 6, 5	4.9	19
226	Structural transformations and optical properties of glass-ceramics based on ZnO, β -Zn ₂ SiO ₄ nanocrystals and doped with Er ₂ O ₃ and Yb ₂ O ₃ : Part I. The role of heat-treatment. <i>Journal of Luminescence</i> , 2018 , 202, 47-56	3.8	19
225	Level anticrossing of impurity states in semiconductor nanocrystals. <i>Scientific Reports</i> , 2014 , 4, 6917	4.9	18
224	Nonlocal laser annealing to improve thermal contacts between multi-layer graphene and metals. <i>Nanotechnology</i> , 2013 , 24, 155301	3.4	18
223	Track membranes with embedded semiconductor nanocrystals: structural and optical examinations. <i>Nanotechnology</i> , 2011 , 22, 455201	3.4	18
222	Double quantum dot photoluminescence mediated by incoherent reversible energy transport. <i>Physical Review B</i> , 2010 , 81,	3.3	18
221	Acoustic phonon problem in nanocrystal dielectric matrix systems. <i>Solid State Communications</i> , 2002 , 122, 139-144	1.6	18
220	Quantum theory of electroabsorption in semiconductor nanocrystals. <i>Optics Express</i> , 2016 , 24, A52-7	3.3	17
219	Note: Near infrared spectral and transient measurements of PbS quantum dots luminescence. <i>Review of Scientific Instruments</i> , 2013 , 84, 116104	1.7	17
218	Lead-Free Perovskites for Lighting and Lasing Applications: A Minireview. <i>Materials</i> , 2019 , 12,	3.5	17
217	Giant Stokes Shifts in AgInS ₂ Nanocrystals with Trapped Charge Carriers. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 16430-16438	3.8	16
216	Influence of the buffer layer properties on the intensity of Raman scattering of graphene. <i>Journal of Raman Spectroscopy</i> , 2013 , 44, 803-809	2.3	16
215	Optical Anisotropy of Topologically Distorted Semiconductor Nanocrystals. <i>Nano Letters</i> , 2017 , 17, 5514-5520	4.5	16
214	Optically active quantum-dot molecules. <i>Optics Express</i> , 2017 , 25, 3811-3825	3.3	16
213	Development of Graphene Nano-Platelet Based Counter Electrodes for Solar Cells. <i>Materials</i> , 2015 , 8, 5953-5973	3.5	16

212	Fluorescence energy transfer in quantum dot/azo dye complexes in polymer track membranes. <i>Nanoscale Research Letters</i> , 2013 , 8, 452	5	16
211	Fluorescence of semiconductor nanorods in liquid-crystal composites. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2008 , 105, 306-309	0.7	16
210	Spectral-luminescence study of the formation of QD-sulfophthalocyanine molecule complexes in an aqueous solution. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2008 , 105, 726-731	0.7	16
209	Formation of QD-porphyrin molecule complexes in aqueous solutions. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2008 , 105, 889-895	0.7	16
208	Judd-Ofelt modelling and stimulated-emission cross-sections for Tb ³⁺ ions in monoclinic KYb(WO ₄) ₂ crystal. <i>Journal of Luminescence</i> , 2017 , 190, 37-44	3.8	15
207	FRET-Activated Delayed Fluorescence in Densely Packed PbS Quantum-Dot Ensembles. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 17016-17022	3.8	15
206	Kinetics of pulse-induced photoluminescence from a semiconductor quantum dot. <i>Optics Express</i> , 2012 , 20, 27612-35	3.3	15
205	Coherent control of optical-phonon-assisted resonance secondary emission in semiconductor quantum dots. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2002 , 93, 52-60	0.7	15
204	Growth, structure, Raman spectra and luminescence of orthorhombic Li ₂ Mg ₂ (MoO ₄) ₃ crystals doped with Eu ³⁺ and Ce ³⁺ ions. <i>Journal of Luminescence</i> , 2017 , 188, 154-161	3.8	14
203	Photoluminescence of Lead Sulfide Quantum Dots of Different Sizes in a Nanoporous Silicate Glass Matrix. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 8645-8652	3.8	14
202	Investigation of Complexes of CdTe Quantum Dots with the AlOH-Sulphophthalocyanine Molecules in Aqueous Media. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 23425-23431	3.8	14
201	Measurement of the luminescence decay times of PbS quantum dots in the near-IR spectral range. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2012 , 112, 868-873	0.7	14
200	Coherent Control of Stress-Induced InGaAs Quantum Dots by Means of Phonon-Assisted Resonant Photoluminescence. <i>Physica Status Solidi (B): Basic Research</i> , 2001 , 224, 461-464	1.3	14
199	Phonon-enhanced intraband transitions in InAs self-assembled quantum dots. <i>Journal of Luminescence</i> , 2000 , 87-89, 503-505	3.8	14
198	Spectroscopy of resonance hyper-Raman scattering of light. <i>Uspekhi Fizicheskikh Nauk</i> , 1990 , 33, 812-832		14
197	Optical properties of ordered superstructures formed from cadmium and lead chalcogenide colloidal nanocrystals. <i>Optics Express</i> , 2016 , 24, A58-64	3.3	14
196	Optical Activity of Semiconductor Gammadions beyond Planar Chirality. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 2941-2945	6.4	14
195	Structural characteristics and spectral properties of novel transparent lithium aluminosilicate glass-ceramics containing (Er,Yb)NbO ₄ nanocrystals. <i>Journal of Luminescence</i> , 2015 , 160, 337-345	3.8	13

194	Highly intensive emission of the NV ⁻ centers in synthetic HPHT microdiamonds at low nitrogen doping. <i>APL Materials</i> , 2018 , 6, 086104	5.7	13
193	Formation of structures based on semiconductor quantum dots and organic molecules in track pore membranes. <i>Journal of Applied Physics</i> , 2013 , 113, 214305	2.5	13
192	Dissociative CdSe/ZnS quantum dot-molecule complex for luminescent sensing of metal ions in aqueous solutions. <i>Journal of Applied Physics</i> , 2010 , 108, 074306	2.5	13
191	Electron-electron scattering in a double quantum dot: Effective mass approach. <i>Journal of Chemical Physics</i> , 2010 , 133, 104704	3.9	13
190	Accumulated photon echo in semiconductor microcrystalline quantum dots. <i>Physical Review B</i> , 1998 , 57, R2077-R2080	3.3	13
189	Carbon Nanoparticles as Versatile Auxiliary Components of Perovskite-Based Optoelectronic Devices. <i>Advanced Functional Materials</i> , 2021 , 31, 2010768	15.6	13
188	Does Progressive Nitrogen Doping Intensify Negatively Charged Nitrogen Vacancy Emission from e-Beam-Irradiated Ib Type High-Pressure-High-Temperature Diamonds?. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 5232-5240	3.8	12
187	Photoinduced electrical response in quantum dots/graphene hybrid structure. <i>Journal of Applied Physics</i> , 2015 , 118, 104305	2.5	12
186	Circular Dichroism of Electric-Field-Oriented CdSe/CdS Quantum Dots-in-Rods. <i>ACS Nano</i> , 2016 , 10, 8904-8917	4.7	12
185	Chemical vapor deposition of isolated spherical diamond particles with embedded silicon-vacancy color centers onto the surface of synthetic opal. <i>Semiconductors</i> , 2014 , 48, 268-271	0.7	12
184	Reversible photoluminescence quenching of CdSe/ZnS quantum dots embedded in porous glass by ammonia vapor. <i>Nanotechnology</i> , 2013 , 24, 335701	3.4	12
183	Anisotropy of optical transitions in ordered ensemble of CdSe quantum rods. <i>Optics Letters</i> , 2013 , 38, 3426-8	3	12
182	Micro-Raman characterization of laser-induced local thermo-oxidation of thin chromium films. <i>Journal of Raman Spectroscopy</i> , 2011 , 42, 1780-1783	2.3	12
181	Spectral-luminescence properties of the complexes formed by similarly charged CdTe quantum dots and tetrasulfophthalocyanine molecules. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2010 , 108, 927-933	0.7	12
180	Intraband carrier relaxation in quantum dots mediated by surface plasmon-phonon excitations. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2004 , 97, 56-67	0.7	12
179	Relaxation of charge carriers in quantum dots with the involvement of plasmon-phonon modes. <i>Semiconductors</i> , 2004 , 38, 1065-1073	0.7	12
178	Evidence of quantum-size effect and electron-phonon interactions in resonance Raman scattering spectra of semiconductor nanocrystals. <i>Journal of Raman Spectroscopy</i> , 1993 , 24, 767-773	2.3	12
177	The influence of phthalocyanine aggregation in complexes with CdSe/ZnS quantum dots on the photophysical properties of the complexes. <i>Beilstein Journal of Nanotechnology</i> , 2016 , 7, 1018-27	3	12

176	Comment on Carbon structure in nanodiamonds elucidated from Raman spectroscopy by V.I. Korepanov et al.. <i>Carbon</i> , 2018 , 127, 193-194	10.4	12
175	Intraband optical activity of semiconductor nanocrystals. <i>Chirality</i> , 2017 , 29, 159-166	2.1	11
174	Chiral nanoparticles in singular light fields. <i>Scientific Reports</i> , 2017 , 7, 45925	4.9	11
173	Magnetic and Optical Properties of Isolated and Aggregated CoFe ₂ O ₄ Superparamagnetic Nanoparticles Studied by MCD Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 11491-11497	3.8	11
172	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
171	Stable Luminescent Composite Microspheres Based on Porous Silica with Embedded CsPbBr ₃ Perovskite Nanocrystals. <i>ChemNanoMat</i> , 2020 , 6, 1080-1085	3.5	10
170	Strong Enhancement of PbS Quantum Dot NIR Emission Using Plasmonic Semiconductor Nanocrystals in Nanoporous Silicate Matrix. <i>Advanced Optical Materials</i> , 2018 , 6, 1701055	8.1	10
169	A highly luminescent porous metamaterial based on a mixture of gold and alloyed semiconductor nanoparticles. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 5278-5285	7.1	10
168	Thin Layer of Semiconductor Plasmonic Nanocrystals for the Enhancement of NIR Fluorophores. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 20469-20475	3.8	10
167	Harnessing the Shape-Induced Optical Anisotropy of a Semiconductor Nanocrystal: A New Type of Intraband Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 2867-2876	3.8	10
166	The formation of molecular aggregates of sulfophthalocyanine in complexes with semiconductor nanocrystals. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2015 , 119, 738-743	0.7	10
165	Photoluminescence of a quantum-dot molecule. <i>Journal of Applied Physics</i> , 2015 , 117, 014306	2.5	10
164	Optically Active Semiconductor Nanosprings for Tunable Chiral Nanophotonics. <i>ACS Nano</i> , 2018 , 12, 6203-6209	16.7	10
163	Ternary Composites with PbS Quantum Dots for Hybrid Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 3115-3121	3.8	9
162	Methanol-induced fast CsBr release results in phase-pure CsPbBr ₃ perovskite nanoplatelets. <i>Nanoscale Advances</i> , 2020 , 2, 1973-1979	5.1	9
161	Size-dependent room-temperature luminescence decay from PbS quantum dots 2012 ,		9
160	Coherent control of the quasi-elastic resonant secondary emission: Semiconductor quantum dots. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2002 , 92, 732-738	0.7	9
159	Nature of the boson peak in Raman spectra of sodium borate glass systems: influence of structural and chemical fluctuations and intermolecular interactions. <i>Journal of Raman Spectroscopy</i> , 2000 , 31, 819-825	2.3	9

158	The influence of thermal treatment conditions (solvothermal versus microwave) and solvent polarity on the morphology and emission of phloroglucinol-based nitrogen-doped carbon dots. <i>Nanoscale</i> , 2021 , 13, 3070-3078	7.7	9
157	Strongly Luminescent Composites Based on Carbon Dots Embedded in a Nanoporous Silicate Glass. <i>Nanomaterials</i> , 2020 , 10,	5.4	8
156	Enhanced stability of the optical responses from all-inorganic perovskite nanocrystals embedded in a synthetic opal matrix. <i>Nanotechnology</i> , 2019 , 30, 405206	3.4	8
155	Optically active II-VI semiconductor nanocrystals via chiral phase transfer. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1793, 27-33		8
154	Excitons in gyrotropic quantum-dot supercrystals. <i>Optics Letters</i> , 2017 , 42, 2423-2426	3	8
153	Transient interband light absorption by quantum dots: Degenerate pump-probe spectroscopy. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2010 , 109, 358-365	0.7	8
152	Observation of homogeneous broadening in semiconductor nanocrystals by resonant second-harmonic scattering spectroscopy. <i>Physical Review B</i> , 1997 , 55, R16041-R16044	3.3	8
151	Surface-enhanced resonance hyper-Raman (SERHR) spectroscopy of photochromatic molecules. <i>Journal of Raman Spectroscopy</i> , 1993 , 24, 695-697	2.3	8
150	Picosecond laser registration of interference pattern by oxidation of thin Cr films. <i>Applied Surface Science</i> , 2017 , 404, 63-66	6.7	7
149	Hybrid structures based on quantum dots and graphene nanobelts. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2017 , 122, 114-119	0.7	7
148	Investigation of AgInS/ZnS Quantum Dots by Magnetic Circular Dichroism Spectroscopy. <i>Materials</i> , 2019 , 12,	3.5	7
147	Investigation of biocompatible complexes of Mn ²⁺ -doped ZnS quantum dots with chlorin e6. <i>Journal of Optical Technology (A Translation of Opticheskii Zhurnal)</i> , 2014 , 81, 444	0.9	7
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