

# Alexander Baranov

## 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.

301  
papers

4,640  
citations

32  
h-index

53  
g-index

337  
ext. papers

5,386  
ext. citations

3.7  
avg, IF

5.56  
L-index

#	Paper	IF	Citations
301	Improved One- and Multiple-Photon Excited Photoluminescence from Cd-Doped CsPbBr Perovskite NCs.. <i>Nanomaterials</i> , <b>2022</b> , 12,	5.4	5
300	Revealing the nature of optical activity in carbon dots produced from different chiral precursor molecules.. <i>Light: Science and Applications</i> , <b>2022</b> , 11, 92	16.7	3
299	Duo Emission of CVD Nanodiamonds Doped by SiV and GeV Color Centers: Effects of Growth Conditions. <i>Materials</i> , <b>2022</b> , 15, 3589	3.5	0
298	Key Factors for Tuning Au Self-Assembling SERS Films: from Properties to Structure. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2021</b> , 129, 495	0.7	0
297	Effect of Reactive Ion Etching on the Luminescence of GeV Color Centers in CVD Diamond Nanocrystals. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	2
296	Interface Chemical Modification between All-Inorganic Perovskite Nanocrystals and Porous Silica Microspheres for Composite Materials with Improved Emission. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	7
295	Carbon Nanoparticles as Versatile Auxiliary Components of Perovskite-Based Optoelectronic Devices. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2010768	15.6	13
294	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> , <b>2021</b> , 13, 3070-3078	7.7	9
293	Chiral carbon dots based on L/D-cysteine produced room temperature surface modification and one-pot carbonization. <i>Nanoscale</i> , <b>2021</b> , 13, 8058-8066	7.7	7
292	Photostability and Photoinduced Processes in CuInS <sub>2</sub> /ZnS Quantum Dots and Their Hybrid Structures with Multilayer Graphene Nanoribbons. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2020</b> , 128, 1901-1909	0.7	
291	FRET-Based Analysis of AgInS/ZnAgInS/ZnS Quantum Dot Recombination Dynamics. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	4
290	Strongly Luminescent Composites Based on Carbon Dots Embedded in a Nanoporous Silicate Glass. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	8
289	The Effect of High Background and Dead Time of an InGaAs/InP Single-Photon Avalanche Photodiode on the Registration of Microsecond Range Near-Infrared Luminescence. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2020</b> , 128, 674-677	0.7	
288	Methanol-induced fast CsBr release results in phase-pure CsPbBr <sub>3</sub> perovskite nanoplatelets. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 1973-1979	5.1	9
287	Size Dependence of the Resonant Third-Order Nonlinear Refraction of Colloidal PbS Quantum Dots. <i>Photonics</i> , <b>2020</b> , 7, 39	2.2	3
286	Carbon-based interlayers in perovskite solar cells. <i>Renewable and Sustainable Energy Reviews</i> , <b>2020</b> , 124, 109774	16.2	29
285	Energy Level Modification with Carbon Dot Interlayers Enables Efficient Perovskite Solar Cells and Quantum Dot Based Light-Emitting Diodes. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1910530	15.6	47

284	Stable Luminescent Composite Microspheres Based on Porous Silica with Embedded CsPbBr <sub>3</sub> Perovskite Nanocrystals. <i>ChemNanoMat</i> , <b>2020</b> , 6, 1080-1085	3.5	10
283	Ligand-Assisted Formation of Graphene/Quantum Dot Monolayers with Improved Morphological and Electrical Properties. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	2
282	Influence of heteroatoms on optical properties and photoluminescence kinetics of carbon dots. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1461, 012008	0.3	
281	Nonparabolicity of size-quantized subbands of bilayer semiconductor quantum wells with heterojunction. <i>Optics Express</i> , <b>2020</b> , 28, 1657-1664	3.3	0
280	Temperature-Dependent Photoluminescent Properties of PbSe Nanoplatelets. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	4
279	Photoluminescence of Germanium-Vacancy Color Centers in Diamond Particles Obtained by Chemical Vapor Deposition. <i>Physics of the Solid State</i> , <b>2020</b> , 62, 919-925	0.8	2
278	Sources of Double-Wave Narrow-Band Emission Based on Diamond Nanoparticles with Simultaneously Introduced Germanium/Vacancy and Silicon/Vacancy Color Centers. <i>Technical Physics Letters</i> , <b>2020</b> , 46, 871-873	0.7	2
277	Terahertz waves polarization rotation in photoexcited single-wall carbon nanotube thin film. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1695, 012097	0.3	1
276	Layer Number Dependence of Charge Density Wave Phase Transition Between Nearly-Commensurate and Incommensurate Phases in 1T-TaS <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 27176-27184	3.8	5
275	Influence of the solvent environment on luminescent centers within carbon dots. <i>Nanoscale</i> , <b>2020</b> , 12, 602-609	7.7	30
274	Magneto-Fluorescent Hybrid Sensor CaCO <sub>3</sub> -FeO-AgInS/ZnS for the Detection of Heavy Metal Ions in Aqueous Media. <i>Materials</i> , <b>2020</b> , 13,	3.5	5
273	Electrophysical parameters of P3HT:PCBM solar cells. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1461, 012123	0.3	
272	Spectral-Time Multiplexing in FRET Complexes of AgInS/ZnS Quantum Dot and Organic Dyes. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	3
271	Photochemically Induced Circular Dichroism of Semiconductor Nanocrystals. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2020</b> , 128, 1230-1235	0.7	1
270	Photoactivation of CdSe Quantum Nanoplatelet Luminescence. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2020</b> , 128, 1226-1229	0.7	1
269	Spatial tracking of individual fluid dispersed particles via Raman spectroscopy. <i>Scientific Reports</i> , <b>2020</b> , 10, 14350	4.9	
268	Toward Bright Red-Emissive Carbon Dots through Controlling Interaction among Surface Emission Centers. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 8121-8127	6.4	20
267	Tunable Mie Resonances of Tin-based Iodide Perovskite Islandlike Films with Enhanced Infrared Photoluminescence. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 3332-3338	6.4	3

266	2D WS liquid crystals: tunable functionality enabling diverse applications. <i>Nanoscale</i> , <b>2019</b> , 11, 16886-16895	7.8	3
265	Magneto-Fluorescent Microbeads for Bacteria Detection Constructed from Superparamagnetic FeO Nanoparticles and AlS/ZnS Quantum Dots. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 12661-12669	7.8	29
264	Optical Properties, Morphology, and Stability of Iodide-Passivated Lead Sulfide Quantum Dots. <i>Materials</i> , <b>2019</b> , 12,	3.5	4
263	Ternary Composites with PbS Quantum Dots for Hybrid Photovoltaics. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 3115-3121	3.8	9
262	Carbon dots produced via space-confined vacuum heating: maintaining efficient luminescence in both dispersed and aggregated states. <i>Nanoscale Horizons</i> , <b>2019</b> , 4, 388-395	10.8	50
261	Time-resolved FRET in AgInS/ZnS-CdSe/ZnS quantum dot systems. <i>Nanotechnology</i> , <b>2019</b> , 30, 195501	3.4	4
260	Porous flower-like superstructures based on self-assembled colloidal quantum dots for sensing. <i>Scientific Reports</i> , <b>2019</b> , 9, 617	4.9	
259	Giant Stokes Shifts in AgInS <sub>2</sub> Nanocrystals with Trapped Charge Carriers. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 16430-16438	3.8	16
258	Photoluminescence of Ag-In-S/ZnS quantum dots: Excitation energy dependence and low-energy electronic structure. <i>Nano Research</i> , <b>2019</b> , 12, 1595-1603	10	30
257	Graphene-quantum dot hybrid nanostructures with controlled optical and photoelectric properties for solar cell applications. <i>Russian Chemical Reviews</i> , <b>2019</b> , 88, 370-386	6.8	10
256	Amino Functionalization of Carbon Dots Leads to Red Emission Enhancement. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 5111-5116	6.4	33
255	sp-sp-Hybridized Atomic Domains Determine Optical Features of Carbon Dots. <i>ACS Nano</i> , <b>2019</b> , 13, 10737-10744	7.4	4
254	Luminescence enhancement of alloyed quantum dots bound to gold nanoparticles by mercaptocarboxylic acids in colloidal complexes. <i>Nanotechnology</i> , <b>2019</b> , 30, 465705	3.4	
253	Photochemically Induced Circular Dichroism of Semiconductor Quantum Dots. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 19979-19983	3.8	6
252	Enhanced stability of the optical responses from all-inorganic perovskite nanocrystals embedded in a synthetic opal matrix. <i>Nanotechnology</i> , <b>2019</b> , 30, 405206	3.4	8
251	Investigation of AgInS/ZnS Quantum Dots by Magnetic Circular Dichroism Spectroscopy. <i>Materials</i> , <b>2019</b> , 12,	3.5	7
250	Electric-field-enhanced circular dichroism of helical semiconductor nanoribbons. <i>Optics Letters</i> , <b>2019</b> , 44, 499-502	3	4
249	Thermochemical writing with high spatial resolution on Ti films utilising picosecond laser. <i>Optical Materials Express</i> , <b>2019</b> , 9, 2729	2.6	6

248	Stability of Optical Responses from Lead-free Perovskite Films. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2019</b> , 127, 1110-1116	0.7	0
247	Engineering the synthesis procedure for PbS nanosheets with controlled optical properties in the near-infrared region. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1410, 012019	0.3	
246	Functionalized rGO Interlayers Improve the Fill Factor and Current Density in PbS QDs-Based Solar Cells. <i>Materials</i> , <b>2019</b> , 12,	3.5	2
245	Synthesis and energy structure of optical transitions of the nitrogen and sulfur co-doped carbon dots. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1410, 012020	0.3	
244	Electronic and Optical Properties of Perovskite Quantum-Dot Dimer. <i>Semiconductors</i> , <b>2019</b> , 53, 2158-2161	17	0
243	Lead-Free Perovskites for Lighting and Lasing Applications: A Minireview. <i>Materials</i> , <b>2019</b> , 12,	3.5	17
242	Optical Activity and Circular Dichroism of Perovskite Quantum-Dot Molecules. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 2658-2664	3.8	5
241	3D superstructures with an orthorhombic lattice assembled by colloidal PbS quantum dots. <i>Nanoscale</i> , <b>2018</b> , 10, 8313-8319	7.7	3
240	Strong Enhancement of PbS Quantum Dot NIR Emission Using Plasmonic Semiconductor Nanocrystals in Nanoporous Silicate Matrix. <i>Advanced Optical Materials</i> , <b>2018</b> , 6, 1701055	8.1	10
239	Induction of Chirality in Two-Dimensional Nanomaterials: Chiral 2D MoS Nanostructures. <i>ACS Nano</i> , <b>2018</b> , 12, 954-964	16.7	54
238	Influence of CdSe and CdSe/CdS nanocrystals on the optical activity of chiral organic molecules. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 1759-1766	7.1	6
237	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> , <b>2018</b> , 30, 465-471	9.6	21
236	Magnetic and Optical Properties of Isolated and Aggregated CoFe <sub>2</sub> O <sub>4</sub> Superparamagnetic Nanoparticles Studied by MCD Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 11491-11497	3.8	11
235	A highly luminescent porous metamaterial based on a mixture of gold and alloyed semiconductor nanoparticles. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 5278-5285	7.1	10
234	Water-Soluble Conjugates of ZnS:Mn Quantum Dots with Chlorin e6 for Photodynamic Therapy. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2018</b> , 125, 94-98	0.7	3
233	Highly intensive emission of the NV <sup>-</sup> centers in synthetic HPHT microdiamonds at low nitrogen doping. <i>APL Materials</i> , <b>2018</b> , 6, 086104	5.7	13
232	Thin Layer of Semiconductor Plasmonic Nanocrystals for the Enhancement of NIR Fluorophores. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 20469-20475	3.8	10
231	Study of the Optical Properties of CdZnSe/ZnS-Quantum Dot-Au-Nanoparticle Complexes. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2018</b> , 124, 494-500	0.7	5

230	Comment on Carbon structure in nanodiamonds elucidated from Raman spectroscopy by V.I. Korepanov et al.. <i>Carbon</i> , <b>2018</b> , 127, 193-194	10.4	12
229	Non-Toxic Ternary Quantum Dots AgInS <sub>2</sub> and AgInS <sub>2</sub> /ZnS: Synthesis and Optical Properties. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2018</b> , 125, 1041-1046	0.7	6
228	Magnetic Circular Dichroism in 2D Colloidal Semiconductor Nanocrystals. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2018</b> , 125, 698-702	0.7	6
227	Deposition of Magnetite Nanofilms by Pulsed Injection MOCVD in a Magnetic Field. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	1
226	From colloidal CdSe quantum dots to microscale optically anisotropic supercrystals through bottom-up self-assembly. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 12904-12911	7.1	4
225	Circular Dichroism Study of Colloidal Semiconductor Nanoscrolls. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2018</b> , 125, 688-692	0.7	
224	Luminescent Complexes of Alloyed Quantum Dots and Gold Nanoparticles Bound by Mercaptocarboxylic Acid Molecules. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2018</b> , 125, 722-725	0.7	2
223	Optical Activity of Semiconductor Nanosprings. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2018</b> , 125, 684-687	0.7	0
222	Theory of Frenkel Excitons in Planar Arrays of Perovskite Quantum Dots. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2018</b> , 125, 693-697	0.7	
221	Excitonic phenomena in perovskite quantum-dot supercrystals. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 25023-25030	3.6	6
220	Photocatalytic Properties of Hybrid Nanostructures Based on Nanoparticles of TiO <sub>2</sub> and Semiconductor Quantum Dots. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2018</b> , 125, 99-103	0.7	2
219	Optically Active Semiconductor Nanosprings for Tunable Chiral Nanophotonics. <i>ACS Nano</i> , <b>2018</b> , 12, 6203-6209	6.7	10
218	Optical Activity of Semiconductor Gammadions beyond Planar Chirality. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 2941-2945	6.4	14
217	Structural transformations and optical properties of glass-ceramics based on ZnO, and Zn <sub>2</sub> SiO <sub>4</sub> nanocrystals and doped with Er <sub>2</sub> O <sub>3</sub> and Yb <sub>2</sub> O <sub>3</sub> : Part I. The role of heat-treatment. <i>Journal of Luminescence</i> , <b>2018</b> , 202, 47-56	3.8	19
216	Circular dichroism of surface complexes based on quantum dots and azo dye. <i>Chirality</i> , <b>2018</b> , 30, 261-267	7.1	2
215	Chiral recognition of optically active CoFe <sub>2</sub> O <sub>4</sub> magnetic nanoparticles by CdSe/CdS quantum dots stabilised with chiral ligands. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 1692-1698	7.1	22
214	Picosecond laser registration of interference pattern by oxidation of thin Cr films. <i>Applied Surface Science</i> , <b>2017</b> , 404, 63-66	6.7	7
213	Optical Activity of Chiral Nanoscrolls. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1600982	8.1	21

212	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> , <b>2017</b> , 121, 5232-5240	3.8	12
211	Hybrid structures based on quantum dots and graphene nanobelts. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2017</b> , 122, 114-119	0.7	7
210	Absorption properties of one- and two-dimensional semiconductor nanocrystals in the presence of an electric field. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2017</b> , 122, 101-105	0.7	2
209	The influence of ligand type on self-organization and optical properties of cadmium selenide quantum dots. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2017</b> , 122, 25-29	0.7	4
208	Energy transfer in rigid solutions with nonuniform distribution of components based on quantum dots and organic molecules. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2017</b> , 122, 88-92	0.7	1
207	Circular dichroism spectroscopy of chlorin e6 and its complexes with quantum dots in different media. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2017</b> , 122, 96-100	0.7	1
206	Photoinduced processes in hybrid structures on the basis of ZnO nanoparticles and CdSe/ZnS quantum dots. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2017</b> , 122, 106-109	0.7	2
205	Intraband optical activity of semiconductor nanocrystals. <i>Chirality</i> , <b>2017</b> , 29, 159-166	2.1	11
204	Circular dichroism spectroscopy of complexes based on semiconductor quantum dots and chlorin e6 molecules. <i>Optical Engineering</i> , <b>2017</b> , 56, 047102	1.1	4
203	Growth, structure, Raman spectra and luminescence of orthorhombic $\text{Li}_2\text{Mg}_2(\text{MoO}_4)_3$ crystals doped with $\text{Eu}^{3+}$ and $\text{Ce}^{3+}$ ions. <i>Journal of Luminescence</i> , <b>2017</b> , 188, 154-161	3.8	14
202	Obtaining of images of ordered and disordered nanocrystal structures by atomic force microscopy. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2017</b> , 122, 93-95	0.7	
201	Judd-Ofelt modelling and stimulated-emission cross-sections for $\text{Tb}^{3+}$ ions in monoclinic $\text{KYb}(\text{WO}_4)_2$ crystal. <i>Journal of Luminescence</i> , <b>2017</b> , 190, 37-44	3.8	15
200	Optical activity of semiconductor nanocrystals with ionic impurities. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2017</b> , 122, 64-68	0.7	2
199	Structure and photoluminescence properties of zinc oxide/ytterbium oxide nanocomposites. <i>Journal of Sol-Gel Science and Technology</i> , <b>2017</b> , 81, 333-337	2.3	5
198	Colloidal quantum dots for optoelectronics. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 13252-13275	13	107
197	Effect of Extinction on Separation of Nanoparticle Enantiomers With Chiral Optical Forces. <i>IEEE Photonics Journal</i> , <b>2017</b> , 9, 1-6	1.8	2
196	Enantioselective cytotoxicity of ZnS:Mn quantum dots in A549 cells. <i>Chirality</i> , <b>2017</b> , 29, 403-408	2.1	21
195	Optical activity of helical quantum-dot supercrystals. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , <b>2017</b> , 122, 42-47	0.7	3

194	Chiral nanoparticles in singular light fields. <i>Scientific Reports</i> , <b>2017</b> , 7, 45925	4.9	11
193	Analytical study of optical activity of chiral-shape nanocrystals <b>2017</b> ,		3
192	Photoluminescence of Lead Sulfide Quantum Dots of Different Sizes in a Nanoporous Silicate Glass Matrix. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 8645-8652	3.8	14
191	Cadmium Chalcogenide Nano-Heteroplatelets: Creating Advanced Nanostructured Materials by Shell Growth, Substitution, and Attachment. <i>Small</i> , <b>2017</b> , 13, 1702300	11	30
190	Orthorhombic Yb:Li <sub>2</sub> Zn <sub>2</sub> (MoO <sub>4</sub> ) <sub>3</sub> novel potential crystal for broadly tunable lasers. <i>Laser Physics Letters</i> , <b>2017</b> , 14, 085804	1.5	3
189	Application of semiconductor quantum dots in bioimaging and biosensing. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 6701-6727	7.3	178
188	Synthesis, characterization and absorption saturation of Co:ZnAl <sub>2</sub> O <sub>4</sub> (gahnite) transparent ceramic and glass-ceramics: A comparative study. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 725, 998-1005	5.7	28
187	Optical Anisotropy of Topologically Distorted Semiconductor Nanocrystals. <i>Nano Letters</i> , <b>2017</b> , 17, 5514-5520	15.2	16
186	Transparent glass-ceramics with Yb <sup>3+</sup> , Ho <sup>3+</sup> :YNbO <sub>4</sub> nanocrystals for green phosphors. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 917, 062024	0.3	1
185	Chiral Optical Properties of Tapered Semiconductor Nanoscrolls. <i>ACS Nano</i> , <b>2017</b> , 11, 7508-7515	16.7	24
184	Sellmeier equations, group velocity dispersion, and thermo-optic dispersion formulas for CaLnAlO <sub>4</sub> (Ln = Y, Gd) laser host crystals. <i>Optics Letters</i> , <b>2017</b> , 42, 2275-2278	3	20
183	Optically active quantum-dot molecules. <i>Optics Express</i> , <b>2017</b> , 25, 3811-3825	3.3	16
182	Analytical theory of real-argument Laguerre-Gaussian beams beyond the paraxial approximation. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2017</b> , 34, 1940-1944	1.8	4
181	Excitons in gyrotropic quantum-dot supercrystals. <i>Optics Letters</i> , <b>2017</b> , 42, 2423-2426	3	8
180	Circular Dichroism of Electric-Field-Oriented CdSe/CdS Quantum Dots-in-Rods. <i>ACS Nano</i> , <b>2016</b> , 10, 8904-8910	10.7	12
179	Molecular Recognition of Biomolecules by Chiral CdSe Quantum Dots. <i>Scientific Reports</i> , <b>2016</b> , 6, 24177	4.9	40
178	Chiral quantum supercrystals with total dissymmetry of optical response. <i>Scientific Reports</i> , <b>2016</b> , 6, 23321	11	21
177	Enantioselective cellular uptake of chiral semiconductor nanocrystals. <i>Nanotechnology</i> , <b>2016</b> , 27, 075103	13.4	47



176	Field-Induced Broadening of Electroabsorption Spectra of Semiconductor Nanorods and Nanoplatelets. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 2379-2385	3.8	22
175	Raman analysis of chemical substitution of Cd atoms by Hg in CdSe quantum dots and rods. <i>Optical Engineering</i> , <b>2016</b> , 55, 017104	1.1	2
174	Quantum theory of electroabsorption in semiconductor nanocrystals. <i>Optics Express</i> , <b>2016</b> , 24, A52-7	3.3	17
173	Optical properties of ordered superstructures formed from cadmium and lead chalcogenide colloidal nanocrystals. <i>Optics Express</i> , <b>2016</b> , 24, A58-64	3.3	14
172	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> , <b>2016</b> , 7, 1018-27	3	12
171	Completely Chiral Optical Force for Enantioseparation. <i>Scientific Reports</i> , <b>2016</b> , 6, 36884	4.9	44
170	Quantum dot based superstructures: PL decay analysis. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 741, 012021	0.3	
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164	Circular dichroism spectroscopy of complexes of semiconductor quantum dots with chlorin e6 <b>2016</b> ,		7
163	FRET efficiency in surface complexes of CdSe/ZnS quantum dots with azo-dyes <b>2016</b> ,		1
162	Complexes of photosensitizer and CdSe/ZnS quantum dots passivated with BSA: optical properties and intracomplex energy transfer <b>2016</b> ,		1
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119	Analysis of structural and chemical features of CdHgSe nanocrystals via resonance Raman spectroscopy <b>2014</b> ,		1
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19	Accumulated photon echo in semiconductor microcrystalline quantum dots. <i>Physical Review B</i> , <b>1998</b> , 57, R2077-R2080	3.3	13
18	Observation of homogeneous broadening in semiconductor nanocrystals by resonant second-harmonic scattering spectroscopy. <i>Physical Review B</i> , <b>1997</b> , 55, R16041-R16044	3.3	8
17	Exciton-phonon interaction in CuCl spherical quantum dots studied by resonant hyper-Raman spectroscopy. <i>Physical Review B</i> , <b>1997</b> , 56, 10332-10337	3.3	31
16	Size-selective two-photon spectroscopy of CuCl spherical quantum dots. <i>Physical Review B</i> , <b>1997</b> , 55, 15675-15680	3.3	23
15	Exciton-phonon coupling in semiconductor quantum dots: Resonant Raman scattering. <i>Physical Review B</i> , <b>1997</b> , 56, 7491-7502	3.3	54

14	Accumulated Photon Echo in CuBr Quantum Dots. <i>Physica Status Solidi A</i> , <b>1997</b> , 164, 287-290		5
13	Anomalous Phase Relaxation Characteristics in CuCl Quantum Dots Analogous to That in Dye-Molecules in Polymer. <i>Physica Status Solidi A</i> , <b>1997</b> , 164, 437-440		3
12	DNA topoisomerase I changes the mode of interaction between camptothecin drugs and DNA as probed by UV-resonance Raman spectroscopy. <i>FEBS Letters</i> , <b>1996</b> , 396, 289-92	3.8	6
11	Two-photon transitions in systems with semiconductor quantum dots. <i>Physical Review B</i> , <b>1996</b> , 54, 8627-8632	3.6	56
10	Resonant hyper-Raman scattering in semiconductor quantum dots. <i>Physica B: Condensed Matter</i> , <b>1996</b> , 219-220, 508-510	2.8	6
9	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> , <b>1996</b> , 54, R8321-R8324	3.3	28
8	Resonant hyper-Raman and second-harmonic scattering in a CdS quantum-dot system. <i>Physical Review B</i> , <b>1996</b> , 53, R1721-R1724	3.3	23
7	Surface-enhanced resonance hyper-Raman (SERHR) spectroscopy of photochromatic molecules. <i>Journal of Raman Spectroscopy</i> , <b>1993</b> , 24, 695-697	2.3	8
6	Evidence of quantum-size effect and electron-phonon interactions in resonance Raman scattering spectra of semiconductor nanocrystals. <i>Journal of Raman Spectroscopy</i> , <b>1993</b> , 24, 767-773	2.3	12
5	Spectroscopy of resonance hyper-Raman scattering of light. <i>Uspekhi Fizicheskikh Nauk</i> , <b>1990</b> , 33, 812-832		14
4	Possibility of giant resonance RS and hyper-RS in structural analysis of simple polymethine dyes. <i>Journal of Applied Spectroscopy</i> , <b>1989</b> , 50, 487-493	0.7	1
3	Vibrational spectra of carbon films obtained from acetylene plasma. <i>Journal of Applied Spectroscopy</i> , <b>1988</b> , 48, 624-628	0.7	
2	Surface-enhanced resonance raman scattering studies of indigo dyes adsorbed on colloid silver particles. <i>Journal of Applied Spectroscopy</i> , <b>1986</b> , 44, 46-50	0.7	2
1	Modern equipment and procedures for the investigation of spontaneous Raman scattering spectra (Review). <i>Journal of Applied Spectroscopy</i> , <b>1981</b> , 34, 1-32	0.7	