Alexander Baranov

List of Publications by Year
in descending order

334 papers	5,978 citations	101384 36 h-index	123241 61 g-index
337 all docs	337 docs citations	337 times ranked	6143 citing authors

#	Article	IF	Citations
1	Application of semiconductor quantum dots in bioimaging and biosensing. Journal of Materials Chemistry B, 2017, 5, 6701-6727.	2.9	265
2	Effect of ZnS shell thickness on the phonon spectra in CdSe quantum dots. Physical Review B, 2003, 68, .	1.1	227
3	Energy Transfer in Aqueous Solutions of Oppositely Charged CdSe/ZnS Core/Shell Quantum Dots and in Quantum Dotâ^'Nanogold Assemblies. Nano Letters, 2004, 4, 451-457.	4.5	225
4	Colloidal quantum dots for optoelectronics. Journal of Materials Chemistry A, 2017, 5, 13252-13275.	5.2	167
5	Intrinsic Chirality of CdSe/ZnS Quantum Dots and Quantum Rods. Nano Letters, 2015, 15, 2844-2851.	4.5	153
6	Annealing-induced structural changes of carbon onions: High-resolution transmission electron microscopy and Raman studies. Carbon, 2014, 73, 78-86.	5.4	144
7	sp²â€“sp³-Hybridized Atomic Domains Determine Optical Features of Carbon Dots. ACS Nano, 2019, 13, 10737-10744.	7.3	136
8	Anomalous Size-Dependent Decay of Low-Energy Luminescence from PbS Quantum Dots in Colloidal Solution. ACS Nano, 2012, 6, 8913-8921.	7.3	95
9	Induction of Chirality in Two-Dimensional Nanomaterials: Chiral 2D MoS₂ Nanostructures. ACS Nano, 2018, 12, 954-964.	7.3	93
10	Carbon dots produced via space-confined vacuum heating: maintaining efficient luminescence in both dispersed and aggregated states. Nanoscale Horizons, 2019, 4, 388-395.	4.1	82
11	Functionalized nanocrystal-tagged fluorescent polymer beads: synthesis, physicochemical characterization, and immunolabeling application. Analytical Biochemistry, 2004, 334, 257-265.	1.1	77
12	Electroabsorption by 0D, 1D, and 2D Nanocrystals: A Comparative Study of CdSe Colloidal Quantum Dots, Nanorods, and Nanoplatelets. ACS Nano, 2014, 8, 7678-7686.	7.3	75
13	Chlorin e6â€“ZnSe/ZnS quantum dots based system as reagent for photodynamic therapy. Nanotechnology, 2015, 26, 055102.	1.3	72
14	Energy Level Modification with Carbon Dot Interlayers Enables Efficient Perovskite Solar Cells and Quantum Dot Based Lightâ€Emitting Diodes. Advanced Functional Materials, 2020, 30, 1910530.	7.8	72
15	Controlled Self-Assembly of Nanocrystals into Polycrystalline Fluorescent Dendrites with Energy-Transfer Properties. Angewandte Chemie - International Edition, 2006, 45, 2048-2052.	7.2	66
16	Amino Functionalization of Carbon Dots Leads to Red Emission Enhancement. Journal of Physical Chemistry Letters, 2019, 10, 5111-5116.	2.1	66
17	Two-photon transitions in systems with semiconductor quantum dots. Physical Review B, 1996, 54, 8627-8632.	1.1	65
18	Analysis of strain and intermixing in single-layerGeâ•Siquantum dots using polarized Raman spectroscopy. Physical Review B, 2006, 73, .	1.1	64

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19	Dislocation-Induced Chirality of Semiconductor Nanocrystals. Nano Letters, 2015, 15, 1710-1715.	4.5	64
20	Exciton-phonon coupling in semiconductor quantum dots: Resonant Raman scattering. Physical Review B, 1997, 56, 7491-7502.	1.1	57
21	DNA-assisted formation of quasi-nanowires from fluorescent CdSe/ZnS nanocrystals. Nanotechnology, 2006, 17, 581-587.	1.3	57
22	Completely Chiral Optical Force for Enantioseparation. Scientific Reports, 2016, 6, 36884.	1.6	57
23	Enantioselective cellular uptake of chiral semiconductor nanocrystals. Nanotechnology, 2016, 27, 075102.	1.3	54
24	Giant Optical Activity of Quantum Dots, Rods and Disks with Screw Dislocations. Scientific Reports, 2015, 5, 14712.	1.6	49
25	Quantum-dot supercrystals for future nanophotonics. Scientific Reports, 2013, 3, .	1.6	47
26	Influence of the solvent environment on luminescent centers within carbon dots. Nanoscale, 2020, 12, 602-609.	2.8	47
27	Molecular Recognition of Biomolecules by Chiral CdSe Quantum Dots. Scientific Reports, 2016, 6, 24177.	1.6	46
28	Magneto-Fluorescent Microbeads for Bacteria Detection Constructed from Superparamagnetic Fe₃O₄ Nanoparticles and AIS/ZnS Quantum Dots. Analytical Chemistry, 2019, 91, 12661-12669.	3.2	46
29	Carbon-based interlayers in perovskite solar cells. Renewable and Sustainable Energy Reviews, 2020, 124, 109774.	8.2	46
30	Sellmeier equations, group velocity dispersion, and thermo-optic dispersion formulas for CaLnAlO_4 (Ln = Y, Gd) laser host crystals. Optics Letters, 2017, 42, 2275.	1.7	45
31	Anisotropy of electron-phonon interaction in nanoscale CdSe platelets as seen via off-resonant and resonant Raman spectroscopy. Physical Review B, 2013, 88, .	1.1	43
32	Photoluminescence of Ag-In-S/ZnS quantum dots: Excitation energy dependence and low-energy electronic structure. Nano Research, 2019, 12, 1595-1603.	5.8	43
33	Spontaneous emission of guided polaritons by quantum dot coupled to metallic nanowire: Beyond the dipole approximation. Optics Express, 2009, 17, 17570.	1.7	42
34	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. Physical Review B, 2011, 83, .	1.1	41
35	Luminescent isolated diamond particles with controllably embedded silicon-vacancy colour centres. Journal Physics D: Applied Physics, 2012, 45, 062001.	1.3	39
36	Submicron polymer particles containing fluorescent semiconductor nanocrystals CdSe/ZnS for bioassays. Nanomedicine, 2011, 6, 195-209.	1.7	37

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37	Synthesis, characterization and absorption saturation of Co:ZnAl2O4 (gahnite) transparent ceramic and glass-ceramics: A comparative study. Journal of Alloys and Compounds, 2017, 725, 998-1005.	2.8	37
38	FRET between Close-Packed Quasi-Monodispersed PbS QDs in a Porous Matrix. Journal of Physical Chemistry C, 2014, 118, 6531-6535.	1.5	36
39	Raman characterization and UV optical absorption studies of surface plasmon resonance in multishell nanographite. Diamond and Related Materials, 2011, 20, 205-209.	1.8	35
40	Cadmium Chalcogenide Nanoâ€Heteroplatelets: Creating Advanced Nanostructured Materials by Shell Growth, Substitution, and Attachment. Small, 2017, 13, 1702300.	5.2	35
41	Resonant energy transfer in quantum dots: Frequency-domain luminescent spectroscopy. Physical Review B, 2008, 78, .	1.1	34
42	PbS Quantum Dots in a Porous Matrix: Optical Characterization. Journal of Physical Chemistry C, 2013, 117, 12318-12324.	1.5	34
43	Toward Bright Red-Emissive Carbon Dots through Controlling Interaction among Surface Emission Centers. Journal of Physical Chemistry Letters, 2020, 11, 8121-8127.	2.1	34
44	Intraband carrier relaxation in quantum dots embedded in doped heterostructures. Physical Review B, 2003, 68, .	1.1	33
45	Revealing the nature of optical activity in carbon dots produced from different chiral precursor molecules. Light: Science and Applications, 2022, 11, 92.	7.7	33
46	Energy transfer in complexes of water-soluble quantum dots and chlorin e6 molecules in different environments. Beilstein Journal of Nanotechnology, 2013, 4, 895-902.	1.5	32
47	Self-Organization of Colloidal PbS Quantum Dots into Highly Ordered Superlattices. Langmuir, 2015, 31, 506-513.	1.6	32
48	Chiral Optical Properties of TaperedÂSemiconductor Nanoscrolls. ACS Nano, 2017, 11, 7508-7515.	7.3	32
49	Excitonâ€“LO-phonon interaction in CuCl spherical quantum dots studied by resonant hyper-Raman spectroscopy. Physical Review B, 1997, 56, 10332-10337.	1.1	31
50	Long phase-relaxation time in CuCl quantum dots: Four-wave-mixing signals analogous to dye molecules in polymers. Physical Review B, 1998, 57, R15084-R15087.	1.1	31
51	Carbon Nanoparticles as Versatile Auxiliary Components of Perovskiteâ€Based Optoelectronic Devices. Advanced Functional Materials, 2021, 31, 2010768.	7.8	31
52	Chiral carbon dots based on <scp>l</scp>/<scp>d</scp>-cysteine produced via room temperature surface modification and one-pot carbonization. Nanoscale, 2021, 13, 8058-8066.	2.8	31
53	Shape-induced optical activity of chiral nanocrystals. Optics Letters, 2016, 41, 2438.	1.7	30
54	Enhanced intraband carrier relaxation in quantum dots due to the effect of plasmonâ€“LO-phonon density of states in doped heterostructures. Physical Review B, 2005, 71, .	1.1	29

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55	Chiral recognition of optically active CoFe₂O₄magnetic nanoparticles by CdSe/CdS quantum dots stabilised with chiral ligands. Journal of Materials Chemistry C, 2017, 5, 1692-1698.	2.7	29
56	Optical Activity of Chiral Nanoscrolls. Advanced Optical Materials, 2017, 5, 1600982.	3.6	29
57	Giant Stokes Shifts in AgInS₂ Nanocrystals with Trapped Charge Carriers. Journal of Physical Chemistry C, 2019, 123, 16430-16438.	1.5	29
58	Anomalous features of resonant hyper-Raman scattering in CuBr quantum dots: Evidence of exciton-phonon-coupled states similar to molecules. Physical Review B, 1996, 54, R8321-R8324.	1.1	28
59	Resonant hyper-Raman and second-harmonic scattering in a CdS quantum-dot system. Physical Review B, 1996, 53, R1721-R1724.	1.1	28
60	Electrically controlled polarized photoluminescence of CdSe/ZnS nanorods embedded in a liquid crystal template. Nanotechnology, 2012, 23, 325201.	1.3	28
61	Mixing of quantum states: A new route to creating optical activity. Scientific Reports, 2016, 6, 5.	1.6	28
62	Optical activity of chirally distorted nanocrystals. Journal of Applied Physics, 2016, 119, 194302.	1.1	28
63	Lead-Free Perovskites for Lighting and Lasing Applications: A Minireview. Materials, 2019, 12, 3845.	1.3	28
64	Comparative analysis of Raman spectra of PbS macro- and nanocrystals. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2010, 109, 268-271.	0.2	27
65	Influence of CoO addition on phase separation and crystallization of glasses of the ZnOâ€“Al2O3â€“SiO2â€“TiO2 system. Journal of Non-Crystalline Solids, 2011, 357, 3928-3939.	1.5	27
66	Excitation Energy Dependence of the Photoluminescence Quantum Yield of Core/Shell CdSe/CdS Quantum Dots and Correlation with Circular Dichroism. Chemistry of Materials, 2018, 30, 465-471.	3.2	27
67	New many-body mechanism of intraband carrier relaxation in quantum dots embedded in doped heterostructures. Solid State Communications, 2003, 128, 219-223.	0.9	25
68	Enantioselective cytotoxicity of ZnS:Mn quantum dots in A549 cells. Chirality, 2017, 29, 403-408.	1.3	25
69	Calibration of the spectral sensitivity of instruments for the near infrared region. Journal of Applied Spectroscopy, 2011, 78, 433-439.	0.3	24
70	Engineering Optical Activity of Semiconductor Nanocrystals via Ion Doping. Nanophotonics, 2016, 5, 573-578.	2.9	24
71	Field-Induced Broadening of Electroabsorption Spectra of Semiconductor Nanorods and Nanoplatelets. Journal of Physical Chemistry C, 2016, 120, 2379-2385.	1.5	24
72	Optical Anisotropy of Topologically Distorted Semiconductor Nanocrystals. Nano Letters, 2017, 17, 5514-5520.	4.5	24

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73	Structural transformations and optical properties of glass-ceramics based on ZnO, Î²- and Î±-Zn2SiO4 nanocrystals and doped with Er2O3 and Yb2O3: Part I. The role of heat-treatment. Journal of Luminescence, 2018, 202, 47-56.	1.5	24
74	Size-selective two-photon spectroscopy of CuCl spherical quantum dots. Physical Review B, 1997, 55, 15675-15680.	1.1	23
75	Polarized Raman spectroscopy of multilayer Geâ•Si(001) quantum dot heterostructures. Journal of Applied Physics, 2004, 96, 2857-2863.	1.1	23
76	Lab-in-a-drop: controlled self-assembly of CdSe/ZnS quantum dots and quantum rods into polycrystalline nanostructures with desired optical properties. Nanotechnology, 2007, 18, 185602.	1.3	23
77	Note: Near infrared spectral and transient measurements of PbS quantum dots luminescence. Review of Scientific Instruments, 2013, 84, 116104.	0.6	23
78	Level Anticrossing of Impurity States in Semiconductor Nanocrystals. Scientific Reports, 2014, 4, 6917.	1.6	23
79	Ligand-Dependent Morphology and Optical Properties of Lead Sulfide Quantum Dot Superlattices. Journal of Physical Chemistry C, 2016, 120, 25061-25067.	1.5	23
80	Chiral quantum supercrystals with total dissymmetry of optical response. Scientific Reports, 2016, 6, 23321.	1.6	23
81	Nonlocal laser annealing to improve thermal contacts between multi-layer graphene and metals. Nanotechnology, 2013, 24, 155301.	1.3	22
82	The influence of thermal treatment conditions (solvothermal versus microwave) and solvent polarity on the morphology and emission of phloroglucinol-based nitrogen-doped carbon dots. Nanoscale, 2021, 13, 3070-3078.	2.8	22
83	Acoustic phonon problem in nanocrystalâ€“dielectric matrix systems. Solid State Communications, 2002, 122, 139-144.	0.9	21
84	Size and Temperature Dependencies of the Low-Energy Electronic Structure of PbS Quantum Dots. Journal of Physical Chemistry C, 2014, 118, 20721-20726.	1.5	21
85	Highly intensive emission of the NVâ^' centers in synthetic HPHT microdiamonds at low nitrogen doping. APL Materials, 2018, 6, .	2.2	21
86	Self-assembly of charged microclusters of CdSe/ZnS core/shell nanodots and nanorods into hierarchically ordered colloidal arrays. Nanotechnology, 2006, 17, 4223-4228.	1.3	20
87	Track membranes with embedded semiconductor nanocrystals: structural and optical examinations. Nanotechnology, 2011, 22, 455201.	1.3	20
88	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.	1.7	20
89	Quantum theory of electroabsorption in semiconductor nanocrystals. Optics Express, 2016, 24, A52.	1.7	20
90	Judd-Ofelt modelling and stimulated-emission cross-sections for Tb3+ ions in monoclinic KYb(WO4)2 crystal. Journal of Luminescence, 2017, 190, 37-44.	1.5	20

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91	Optical Activity of Semiconductor Gammadions beyond Planar Chirality. Journal of Physical Chemistry Letters, 2018, 9, 2941-2945.	2.1	20
92	Quantum dot energy relaxation mediated by plasmon emission in doped covalent semiconductor heterostructures. Physical Review B, 2007, 76, .	1.1	19
93	Fluorescence of semiconductor nanorods in liquid-crystal composites. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2008, 105, 306-309.	0.2	19
94	Spectral-luminescence study of the formation of QD-sulfophthalocyanine molecule complexes in an aqueous solution. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2008, 105, 726-731.	0.2	19
95	Double quantum dot photoluminescence mediated by incoherent reversible energy transport. Physical Review B, 2010, 81, .	1.1	19
96	Development of Graphene Nano-Platelet Based Counter Electrodes for Solar Cells. Materials, 2015, 8, 5953-5973.	1.3	19
97	Structural characteristics and spectral properties of novel transparent lithium aluminosilicate glass-ceramics containing (Er,Yb)NbO4 nanocrystals. Journal of Luminescence, 2015, 160, 337-345.	1.5	19
98	Growth, structure, Raman spectra and luminescence of orthorombic Li 2 Mg 2 (MoO 4) 3 crystals doped with Eu 3+ and Ce 3+ ions. Journal of Luminescence, 2017, 188, 154-161.	1.5	19
99	Coherent control of optical-phonon-assisted resonance secondary emission in semiconductor quantum dots. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2002, 93, 52-60.	0.2	18
100	FRET-Activated Delayed Fluorescence in Densely Packed PbS Quantum-Dot Ensembles. Journal of Physical Chemistry C, 2015, 119, 17016-17022.	1.5	18
101	Does Progressive Nitrogen Doping Intensify Negatively Charged Nitrogen Vacancy Emission from e-Beam-Irradiated Ib Type High-Pressureâ€“High-Temperature Diamonds?. Journal of Physical Chemistry C, 2017, 121, 5232-5240.	1.5	18
102	Photoluminescence of Lead Sulfide Quantum Dots of Different Sizes in a Nanoporous Silicate Glass Matrix. Journal of Physical Chemistry C, 2017, 121, 8645-8652.	1.5	18
103	Spectroscopy of resonance hyper-Raman scattering of light. Uspekhi Fizicheskikh Nauk, 1990, 33, 812-832.	0.3	17
104	Formation of QD-porphyrin molecule complexes in aqueous solutions. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2008, 105, 889-895.	0.2	17
105	Microâ€Raman characterization of laserâ€induced local thermoâ€oxidation of thin chromium films. Journal of Raman Spectroscopy, 2011, 42, 1780-1783.	1.2	17
106	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.	0.2	17
107	Influence of the buffer layer properties on the intensity of Raman scattering of graphene. Journal of Raman Spectroscopy, 2013, 44, 803-809.	1.2	17
108	Fluorescence energy transfer in quantum dot/azo dye complexes in polymer track membranes. Nanoscale Research Letters, 2013, 8, 452.	3.1	17

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109	Optically active quantum-dot molecules. Optics Express, 2017, 25, 3811.	1.7	17
110	Strong Enhancement of PbS Quantum Dot NIR Emission Using Plasmonic Semiconductor Nanocrystals in Nanoporous Silicate Matrix. Advanced Optical Materials, 2018, 6, 1701055.	3.6	17
111	Kinetics of pulse-induced photoluminescence from a semiconductor quantum dot. Optics Express, 2012, 20, 27612.	1.7	16
112	Investigation of Complexes of CdTe Quantum Dots with the AlOH-Sulphophthalocyanine Molecules in Aqueous Media. Journal of Physical Chemistry C, 2013, 117, 23425-23431.	1.5	16
113	Optical properties of ordered superstructures formed from cadmium and lead chalcogenide colloidal nanocrystals. Optics Express, 2016, 24, A58.	1.7	16
114	Methanol-induced fast CsBr release results in phase-pure CsPbBr₃ perovskite nanoplatelets. Nanoscale Advances, 2020, 2, 1973-1979.	2.2	16
115	Coherent Control of Stress-Induced InGaAs Quantum Dots by Means of Phonon-Assisted Resonant Photoluminescence. Physica Status Solidi (B): Basic Research, 2001, 224, 461-464.	0.7	15
116	Intraband carrier relaxation in quantum dots mediated by surface plasmon-phonon excitations. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2004, 97, 56-67.	0.2	15
117	Relaxation of charge carriers in quantum dots with the involvement of plasmon-phonon modes. Semiconductors, 2004, 38, 1065-1073.	0.2	15
118	Anisotropy of optical transitions in ordered ensemble of CdSe quantum rods. Optics Letters, 2013, 38, 3426.	1.7	15
119	Investigation of AgInS2/ZnS Quantum Dots by Magnetic Circular Dichroism Spectroscopy. Materials, 2019, 12, 3616.	1.3	15
120	FRET-Based Analysis of AgInS2/ZnAgInS/ZnS Quantum Dot Recombination Dynamics. Nanomaterials, 2020, 10, 2455.	1.9	15
121	Strongly Luminescent Composites Based on Carbon Dots Embedded in a Nanoporous Silicate Glass. Nanomaterials, 2020, 10, 1063.	1.9	15
122	Layer Number Dependence of Charge Density Wave Phase Transition Between Nearly-Commensurate and Incommensurate Phases in 1T-TaS₂. Journal of Physical Chemistry C, 2020, 124, 27176-27184.	1.5	15
123	Evidence of quantum-size effect and electron-phonon interactions in resonance Raman scattering spectra of semiconductor nanocrystals. Journal of Raman Spectroscopy, 1993, 24, 767-773.	1.2	14
124	Phonon-enhanced intraband transitions in InAs self-assembled quantum dots. Journal of Luminescence, 2000, 87-89, 503-505.	1.5	14
125	Dissociative CdSe/ZnS quantum dot-molecule complex for luminescent sensing of metal ions in aqueous solutions. Journal of Applied Physics, 2010, 108, 074306.	1.1	14
126	Reversible photoluminescence quenching of CdSe/ZnS quantum dots embedded in porous glass by ammonia vapor. Nanotechnology, 2013, 24, 335701.	1.3	14

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127	Chiral nanoparticles in singular light fields. Scientific Reports, 2017, 7, 45925.	1.6	14
128	Magnetic and Optical Properties of Isolated and Aggregated CoFe₂O₄ Superparamagnetic Nanoparticles Studied by MCD Spectroscopy. Journal of Physical Chemistry C, 2018, 122, 11491-11497.	1.5	14
129	Comment on â€œCarbon structure in nanodiamonds elucidated from Raman spectroscopyâ€•by V.I. Korepanov etÂal.. Carbon, 2018, 127, 193-194.	5.4	14
130	Optically Active Semiconductor Nanosprings for Tunable Chiral Nanophotonics. ACS Nano, 2018, 12, 6203-6209.	7.3	14
131	Improved One- and Multiple-Photon Excited Photoluminescence from Cd2+-Doped CsPbBr3 Perovskite NCs. Nanomaterials, 2022, 12, 151.	1.9	14
132	Accumulated photon echo in semiconductor microcrystalline quantum dots. Physical Review B, 1998, 57, R2077-R2080.	1.1	13
133	Electron-electron scattering in a double quantum dot: Effective mass approach. Journal of Chemical Physics, 2010, 133, 104704.	1.2	13
134	Formation of structures based on semiconductor quantum dots and organic molecules in track pore membranes. Journal of Applied Physics, 2013, 113, 214305.	1.1	13
135	Chemical vapor deposition of isolated spherical diamond particles with embedded silicon-vacancy color centers onto the surface of synthetic opal. Semiconductors, 2014, 48, 268-271.	0.2	13
136	Photoinduced electrical response in quantum dots/graphene hybrid structure. Journal of Applied Physics, 2015, 118, 104305.	1.1	13
137	The influence of phthalocyanine aggregation in complexes with CdSe/ZnS quantum dots on the photophysical properties of the complexes. Beilstein Journal of Nanotechnology, 2016, 7, 1018-1027.	1.5	13
138	Intraband optical activity of semiconductor nanocrystals. Chirality, 2017, 29, 159-166.	1.3	13
139	Thin Layer of Semiconductor Plasmonic Nanocrystals for the Enhancement of NIR Fluorophores. Journal of Physical Chemistry C, 2018, 122, 20469-20475.	1.5	13
140	Coherent control of the quasi-elastic resonant secondary emission: Semiconductor quantum dots. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2002, 92, 732-738.	0.2	12
141	Spectral-luminescence properties of the complexes formed by similarly charged CdTe quantum dots and tetrasulfophthalocyanine molecules. Optics and Spectroscopy (English Translation of Optika I) Tj ETQq1 1 0.784314 rgBT /Overlo	0.2	12
142	Circular Dichroism of Electric-Field-Oriented CdSe/CdS Quantum Dots-in-Rods. ACS Nano, 2016, 10, 8904-8909.	7.3	12
143	A highly luminescent porous metamaterial based on a mixture of gold and alloyed semiconductor nanoparticles. Journal of Materials Chemistry C, 2018, 6, 5278-5285.	2.7	12
144	Non-Toxic Ternary Quantum Dots AgInS2 and AgInS2/ZnS: Synthesis and Optical Properties. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2018, 125, 1041-1046.	0.2	12

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145	Grapheneâ€“quantum dot hybrid nanostructures with controlled optical and photoelectric properties for solar cell applications. Russian Chemical Reviews, 2019, 88, 370-386.	2.5	12
146	Stable Luminescent Composite Microspheres Based on Porous Silica with Embedded CsPbBr₃ Perovskite Nanocrystals. ChemNanoMat, 2020, 6, 1080-1085.	1.5	12
147	Carbon Dots with an Emission in the Near Infrared Produced from Organic Dyes in Porous Silica Microsphere Templates. Nanomaterials, 2022, 12, 543.	1.9	12
148	Transient interband light absorption by quantum dots: Degenerate pump-probe spectroscopy. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2010, 109, 358-365.	0.2	11
149	Harnessing the Shape-Induced Optical Anisotropy of a Semiconductor Nanocrystal: A New Type of Intraband Absorption Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 2867-2876.	1.5	11
150	The formation of molecular aggregates of sulfophthalocyanine in complexes with semiconductor nanocrystals. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2015, 119, 738-743.	0.2	11
151	Photoluminescence of a quantum-dot molecule. Journal of Applied Physics, 2015, 117, 014306.	1.1	11
152	Picosecond laser registration of interference pattern by oxidation of thin Cr films. Applied Surface Science, 2017, 404, 63-66.	3.1	11
153	Magneto-Fluorescent Hybrid Sensor CaCO3-Fe3O4-AgInS2/ZnS for the Detection of Heavy Metal Ions in Aqueous Media. Materials, 2020, 13, 4373.	1.3	11
154	Temperature-Dependent Photoluminescent Properties of PbSe Nanoplatelets. Nanomaterials, 2020, 10, 2570.	1.9	11
155	Nature of the boson peak in Raman spectra of sodium borate glass systems: influence of structural and chemical fluctuations and intermolecular interactions. Journal of Raman Spectroscopy, 2000, 31, 819-825.	1.2	10
156	Transient interband light absorption by quantum dots: Nondegenerate case of pump-probe spectroscopy. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2011, 110, 24-32.	0.2	10
157	Size-dependent room-temperature luminescence decay from PbS quantum dots. Proceedings of SPIE, 2012, , .	0.8	10
158	Excitonic phenomena in perovskite quantum-dot supercrystals. Physical Chemistry Chemical Physics, 2018, 20, 25023-25030.	1.3	10
159	Enhanced stability of the optical responses from all-inorganic perovskite nanocrystals embedded in a synthetic opal matrix. Nanotechnology, 2019, 30, 405206.	1.3	10
160	Size Dependence of the Resonant Third-Order Nonlinear Refraction of Colloidal PbS Quantum Dots. Photonics, 2020, 7, 39.	0.9	10
161	Interface Chemical Modification between All-Inorganic Perovskite Nanocrystals and Porous Silica Microspheres for Composite Materials with Improved Emission. Nanomaterials, 2021, 11, 119.	1.9	10
162	A complex for the fluorescence analysis of macro- and microsamples in the near-infrared. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 2011, 78, 120.	0.2	9

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163	Transient intraband light absorption by quantum dots: Pump-probe spectroscopy. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2011, 111, 798-807.	0.2	9
164	Excitons in gyrotropic quantum-dot supercrystals. Optics Letters, 2017, 42, 2423.	1.7	9
165	Photochemically Induced Circular Dichroism of Semiconductor Quantum Dots. Journal of Physical Chemistry C, 2019, 123, 19979-19983.	1.5	9
166	Optical Properties, Morphology, and Stability of Iodide-Passivated Lead Sulfide Quantum Dots. Materials, 2019, 12, 3219.	1.3	9
167	Ternary Composites with PbS Quantum Dots for Hybrid Photovoltaics. Journal of Physical Chemistry C, 2019, 123, 3115-3121.	1.5	9
168	Thermochemical writing with high spatial resolution on Ti films utilising picosecond laser. Optical Materials Express, 2019, 9, 2729.	1.6	9
169	Surface-enhanced resonance hyper-Raman (SERHR) spectroscopy of photochromatic molecules. Journal of Raman Spectroscopy, 1993, 24, 695-697.	1.2	8
170	DNA topoisomerase I changes the mode of interaction between camptothecin drugs and DNA as probed by UV-resonance Raman spectroscopy. FEBS Letters, 1996, 396, 289-292.	1.3	8
171	Observation of homogeneous broadening in semiconductor nanocrystals by resonant second-harmonic scattering spectroscopy. Physical Review B, 1997, 55, R16041-R16044.	1.1	8
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