

Volodymyr M Dzhagan

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.

156
papers

2,853
citations

32
h-index



46
g-index

164
ext. papers

3,340
ext. citations

3.7
avg, IF

5.06
L-index

#	Paper	IF	Citations
156	Spectroscopic Study of Phytosynthesized Ag Nanoparticles and Their Activity as SERS Substrate. <i>Chemosensors</i> , 2022 , 10, 129	4	1
155	 Allium cepa L.. <i>Reports National Academy of Science of Ukraine</i> , 2022 , 99-106	0.2	
154	Copper-Content Dependent Structural and Electrical Properties of CZTS Films Formed by  Green Colloidal Nanocrystals. <i>Electronic Materials</i> , 2022 , 3, 136-153	0.8	0
153	Green synthesis of silver nanoparticles using aqueous extract of hot chili pepper fruits and its antimicrobial activity against <i>Pseudomonas aeruginosa</i> . <i>Ukrainian Biochemical Journal</i> , 2021 , 93, 102-110	0.7	3
152	Colloidal Cu-Zn-Sn-Te Nanocrystals: Aqueous Synthesis and Raman Spectroscopy Study. <i>Nanomaterials</i> , 2021 , 11,	5.4	2
151	Multifunctional Magneto-Plasmonic FeO/Au Nanocomposites: Approaching Magnetophoretically-Enhanced Photothermal Therapy. <i>Nanomaterials</i> , 2021 , 11,	5.4	5
150	Colloidal Cu ₂ ZnSnS ₄ -based and Ag-doped Nanocrystals: Synthesis and Raman Spectroscopy Study. <i>Physics and Chemistry of Solid State</i> , 2021 , 22, 260-268	1.9	4
149	Room-Temperature Electron Paramagnetic Resonance Study of a Copper-Related Defect in Cu ₂ ZnSnS ₄ Colloidal Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 9923-9929	3.8	1
148	Raman and X-ray Photoelectron Spectroscopic Study of Aqueous Thiol-Capped Ag-Zn-Sn-S Nanocrystals. <i>Materials</i> , 2021 , 14,	3.5	2
147	Heterostructured Bismuth Telluride Selenide Nanosheets for Enhanced Thermoelectric Performance. <i>Small Science</i> , 2021 , 1, 2000021		11
146	Analysis of scarlet elf cup (<i>Sarcoscypha coccinea</i>) carotenoids in vivo by Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2021 , 52, 600-607	2.3	
145	Temperature Driven Plasmon-Exciton Coupling in Thermoresponsive Dextran-Graft-PNIPAM/Au Nanoparticle/CdTe Quantum Dots Hybrid Nanosystem. <i>Plasmonics</i> , 2021 , 16, 1137-1150	2.4	3
144	Fermi resonance in a molecule adsorbed on plasmonic metal film. <i>Journal of Raman Spectroscopy</i> , 2021 , 52, 815-820	2.3	
143	Self-assembly of semiconductor quantum dots with porphyrin chromophores: Energy relaxation processes and biomedical applications. <i>Journal of Molecular Structure</i> , 2021 , 1244, 131239	3.4	1
142	Ternary CdS _{1-x} Se _x nanocrystals formed in Cd-doped As ₂ Se ₃ films due to photoenhanced diffusion during micro-Raman measurement. <i>Journal of Raman Spectroscopy</i> , 2021 , 52, 821-832	2.3	1
141	Raman and X-ray Photoemission Identification of Colloidal Metal Sulfides as Potential Secondary Phases in Nanocrystalline Cu ₂ ZnSnS ₄ Photovoltaic Absorbers. <i>ACS Applied Nano Materials</i> , 2020 , 3, 5706-5717	5.6	12
140	Structure and vibrational spectra of ReSe ₂ nanoplates. <i>Journal of Raman Spectroscopy</i> , 2020 , 51, 1305-1314	1.4	2

139	Phonon Spectra of Strongly Luminescent Nonstoichiometric AgInS, CuInS, and HgInS Nanocrystals of Small Size. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 15511-15522	3.8	5
138	Raman and Infrared Phonon Spectra of Novel Nonlinear Optical Materials PbGa ₂ GeS ₆ and PbGa ₂ GeSe ₆ : Experiment and Theory. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 1900700	1.3	1
137	Raman study of laser-induced formation of II/VI nanocrystals in zinc-doped AsS(Se) films. <i>Applied Nanoscience (Switzerland)</i> , 2020 , 10, 4831-4837	3.3	3
136	Photoinduced Enhancement of Photoluminescence of Colloidal II-VI Nanocrystals in Polymer Matrices. <i>Nanomaterials</i> , 2020 , 10,	5.4	2
135	Ultra-small aqueous glutathione-capped Ag-In-Se quantum dots: luminescence and vibrational properties.. <i>RSC Advances</i> , 2020 , 10, 42178-42193	3.7	7
134	Resonant tip-enhanced Raman scattering by CdSe nanocrystals on plasmonic substrates. <i>Nanoscale Advances</i> , 2020 , 2, 5441-5449	5.1	3
133	Voltage-Controlled Dielectric Function of Bilayer Graphene. <i>Advanced Optical Materials</i> , 2020 , 8, 2000868	3.1	4
132	Synthesis, Characterization, and Electrochemistry of Diferrocenyl Diketones, -Diketonates, and Pyrazoles. <i>Molecules</i> , 2020 , 25,	4.8	1
131	Resonant plasmon enhancement of light emission from CdSe/CdS nanoplatelets on Au nanodisk arrays. <i>Journal of Chemical Physics</i> , 2020 , 153, 164708	3.9	3
130	Improved rectification and transport properties of hybrid PEDOT:PSS/Ge/Si heterojunctions with Ge nanoclusters. <i>Journal of Applied Physics</i> , 2020 , 128, 085503	2.5	0
129	Long-Term Stability of Optical Properties of Colloidal CdSe Nanocrystals in Polymer Matrices. <i>International Journal of Nanoscience</i> , 2019 , 18, 1940052	0.6	1
128	The role of a plasmonic substrate on the enhancement and spatial resolution of tip-enhanced Raman scattering. <i>Faraday Discussions</i> , 2019 , 214, 309-323	3.6	15
127	Raman study of flash-lamp annealed aqueous CuZnSnS nanocrystals. <i>Beilstein Journal of Nanotechnology</i> , 2019 , 10, 222-227	3	7
126	Structural and optical study of Zn-doped As ₂ Se ₃ thin films: Evidence for photoinduced formation of ZnSe nanocrystallites. <i>AIP Advances</i> , 2019 , 9, 065212	1.5	7
125	Flexible plasmonic graphene oxide/heterostructures for dual-channel detection. <i>Analyst, The</i> , 2019 , 144, 3297-3306	5	9
124	Brightly Luminescent Core/Shell Nanoplatelets with Continuously Tunable Optical Properties. <i>Advanced Optical Materials</i> , 2019 , 7, 1801478	8.1	22
123	Surfaces, Interfaces, and Nanostructures: Spectroscopic Characterization and Applications. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1900027	1.3	
122	Insights into different photoluminescence mechanisms of binary and ternary aqueous nanocrystals from the temperature dependence: A case study of CdSe and Ag-In-S. <i>Journal of Luminescence</i> , 2019 , 215, 116630	3.8	9

121	Charge Carrier Transport, Trapping, and Recombination in PEDOT:PSS/n-Si Solar Cells. <i>ACS Applied Energy Materials</i> , 2019 , 2, 5983-5991	6.1	5
120	Mercury-indium-sulfide nanocrystals: A new member of the family of ternary in based chalcogenides. <i>Journal of Chemical Physics</i> , 2019 , 151, 144701	3.9	6
119	Plasmon-Enhanced Near-Field Optical Spectroscopy of Multicomponent Semiconductor Nanostructures. <i>Optoelectronics, Instrumentation and Data Processing</i> , 2019 , 55, 488-494	0.6	1
118	Experimental Studies and Modeling of Starlike Plasmonic Nanostructures for SERS Application. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1800280	1.3	5
117	Laser-Induced Formation of CdS Crystallites in Cd-Doped Amorphous Arsenic Sulfide Thin Films. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1800298	1.3	8
116	In-doped As ₂ Se ₃ thin films studied by Raman and X-ray photoelectron spectroscopies. <i>Applied Surface Science</i> , 2019 , 471, 943-949	6.7	9
115	Iron(III) Ediketonates: CVD precursors for iron oxide film formation. <i>Inorganica Chimica Acta</i> , 2019 , 487, 1-8	2.7	9
114	A new route to very stable water-soluble ultra-small core/shell CdSe/CdS quantum dots. <i>Nano Structures Nano Objects</i> , 2018 , 13, 146-154	5.6	17
113	Origin of the Broadband Photoluminescence of Pristine and Cu ⁺ /Ag ⁺ -Doped Ultrasmall CdS and CdSe/CdS Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 10267-10277	3.8	23
112	Luminescence and photoelectrochemical properties of size-selected aqueous copper-doped Ag-In-S quantum dots.. <i>RSC Advances</i> , 2018 , 8, 7550-7557	3.7	40
111	Origin and Dynamics of Highly Efficient Broadband Photoluminescence of Aqueous Glutathione-Capped Size-Selected AgInS Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 13648-13658	3.8	67
110	Work Function and Conductivity of Inkjet-Printed Silver Layers: Effect of Inks and Post-treatments. <i>Journal of Electronic Materials</i> , 2018 , 47, 2135-2142	1.9	9
109	B ₂ O ₃ /SiO ₂ /Phenolic Resin Hybrid Materials Produced by Simultaneous Twin Polymerization of Spiromonomers. <i>Macromolecular Chemistry and Physics</i> , 2018 , 219, 1700487	2.6	2
108	Near-Infrared CuInSe-Based Colloidal Nanocrystals via Cation Exchange. <i>Chemistry of Materials</i> , 2018 , 30, 2607-2617	9.6	36
107	Copper-surface-mediated synthesis of acetylenic carbon-rich nanofibers for active metal-free photocathodes. <i>Nature Communications</i> , 2018 , 9, 1140	17.4	84
106	Experimental and theoretical study of Raman scattering spectra of ternary chalcogenides Tl ₄ HgI ₆ , Tl ₄ HgBr ₆ , and TlHgCl ₃ . <i>Journal of Raman Spectroscopy</i> , 2018 , 49, 1840-1848	2.3	6
105	Giant gap-plasmon tip-enhanced Raman scattering of MoS monolayers on Au nanocluster arrays. <i>Nanoscale</i> , 2018 , 10, 2755-2763	7.7	53
104	Raman Scattering Study of Mixed Quaternary Ag _x GaxGe _{1-x} Se ₂ (0.167 ≤ x ≤ 0.333) Crystals. <i>Physica Status Solidi (B): Basic Research</i> , 2018 , 255, 1700230	1.3	3

103	Nanoantenna structures for the detection of phonons in nanocrystals. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 2646-2656	3	4
102	Raman characterization of CuZnSnS nanocrystals: phonon confinement effect and formation of Cu S phases.. <i>RSC Advances</i> , 2018 , 8, 30736-30746	3.7	25
101	Vibrational spectroscopy of compound semiconductor nanocrystals. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 503001	3	40
100	"Green" Aqueous Synthesis and Advanced Spectral Characterization of Size-Selected CuZnSnS Nanocrystal Inks. <i>Scientific Reports</i> , 2018 , 8, 13677	4.9	25
99	Atomic Layer Deposition of Titanium Phosphate from Titanium Tetrachloride and Triethyl Phosphate onto Carbon Fibers. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800423	4.6	7
98	Magnesium Eketoiminates as CVD precursors for MgO formation.. <i>RSC Advances</i> , 2018 , 8, 19668-19678	3.7	6
97	Surface-Enhanced Infrared Absorption by Optical Phonons in Nanocrystal Monolayers on Au Nanoantenna Arrays. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 5779-5786	3.8	10
96	Deposition of an organic/inorganic hybrid material onto carbon fibers via the introduction of furfuryl alcohol into the atomic layer deposition process of titania and subsequent pyrolysis. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2017 , 35, 01B107	2.9	3
95	Spectral and photophysical properties of size-selected ZnO nanocrystals coupled to single-layer carbon nitride sheets. <i>FlatChem</i> , 2017 , 2, 38-48	5.1	7
94	A Fine Size Selection of Brightly Luminescent Water-Soluble AgInS and AgInS/ZnS Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 9032-9042	3.8	94
93	Photocatalytic H ₂ production from aqueous solutions of hydrazine and its derivatives in the presence of nitric-acid-activated graphitic carbon nitride. <i>Catalysis Today</i> , 2017 , 284, 229-235	5.3	13
92	Hybrid N-Butylamine-Based Ligands for Switching the Colloidal Solubility and Regimentation of Inorganic-Capped Nanocrystals. <i>ACS Nano</i> , 2017 , 11, 1559-1571	16.7	37
91	Tuning the adhesion between polyimide substrate and MWCNTs/epoxy nanocomposite by surface treatment. <i>Applied Surface Science</i> , 2017 , 422, 420-429	6.7	15
90	Electrochemical Tuning of Localized Surface Plasmon Resonance in Copper Chalcogenide Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 18244-18253	3.8	32
89	Hydrogen-induced sp ² to sp ³ rehybridization in epitaxial silicene. <i>Physical Review B</i> , 2017 , 96,	3.3	5
88	Probing the structure of CuInS ₂ -ZnS core-shell and similar nanocrystals by Raman spectroscopy. <i>Applied Surface Science</i> , 2017 , 395, 24-28	6.7	22
87	Photoelectrochemical Properties of Titanium Dioxide Nanoheterostructures with Low-Dimensional Cadmium Selenide Particles. <i>Theoretical and Experimental Chemistry</i> , 2016 , 52, 152-162	1.3	2
86	Transformation of epitaxial NiMnGa/InGaAs nanomembranes grown on GaAs substrates into freestanding microtubes. <i>RSC Advances</i> , 2016 , 6, 72568-72574	3.7	2

85	Morphology-induced phonon spectra of CdSe/CdS nanoplatelets: core/shell vs. core-crown. <i>Nanoscale</i> , 2016 , 8, 17204-17212	7.7	33
84	Non-stoichiometric CuIn _{1-x} S ₂ /ZnS nanoparticles produced in aqueous solutions as light harvesters for liquid-junction photoelectrochemical solar cells. <i>RSC Advances</i> , 2016 , 6, 100145-100157	3.7	39
83	Optical phonons in the kesterite Cu ₂ ZnGeS ₄ semiconductor: polarized Raman spectroscopy and first-principle calculations. <i>RSC Advances</i> , 2016 , 6, 13278-13285	3.7	29
82	Fermi resonance in the phonon spectra of quaternary chalcogenides of the type Cu ₂ ZnGeS ₄ . <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 065401	1.8	23
81	Raman spectroscopy of Cu-Sn-S ternary compound thin films prepared by the low-cost spray-pyrolysis technique. <i>Applied Optics</i> , 2016 , 55, B158-62	1.7	36
80	Resonant surface-enhanced Raman scattering by optical phonons in a monolayer of CdSe nanocrystals on Au nanocluster arrays. <i>Applied Surface Science</i> , 2016 , 370, 410-417	6.7	11
79	Tuning the reduction and conductivity of solution-processed graphene oxide by intense pulsed light. <i>Carbon</i> , 2016 , 102, 236-244	10.4	27
78	Chemical vapor deposition of ruthenium-based layers by a single-source approach. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 2319-2328	7.1	5
77	Enhanced Raman scattering of ZnO nanocrystals in the vicinity of gold and silver nanostructured surfaces. <i>Optics Express</i> , 2016 , 24, A168-73	3.3	20
76	Chloride and Indium-Chloride-Complex Inorganic Ligands for Efficient Stabilization of Nanocrystals in Solution and Doping of Nanocrystal Solids. <i>Advanced Functional Materials</i> , 2016 , 26, 2163-2175	15.6	37
75	Improved Electrochemical Behavior of Amorphous Carbon-Coated Copper/CNT Composites as Negative Electrode Material and Their Energy Storage Mechanism. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A1247-A1253	3.9	15
74	Nature of some features in Raman spectra of hydroxyapatite-containing materials. <i>Journal of Raman Spectroscopy</i> , 2016 , 47, 726-730	2.3	22
73	Crystal structure and vibrational properties of Cu ₂ ZnSiSe ₄ quaternary semiconductor. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 1808-1815	1.3	17
72	Optical properties of quaternary kesterite-type Cu ₂ Zn(Sn _{1-x} Gex) ₄ crystalline alloys: Raman scattering, photoluminescence and first-principle calculations. <i>RSC Advances</i> , 2016 , 6, 67756-67763	3.7	19
71	Alloyed CuInS ₂ /ZnS nanorods: synthesis, structure and optical properties. <i>CrystEngComm</i> , 2015 , 17, 5634-5643	3.9	26
70	Synthesis, optical properties, and photochemical activity of zinc-indium-sulfide nanoplates. <i>RSC Advances</i> , 2015 , 5, 89577-89585	3.7	12
69	Surface- and tip-enhanced resonant Raman scattering from CdSe nanocrystals. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 21198-203	3.6	34
68	Structure of Biocompatible Coatings Produced from Hydroxyapatite Nanoparticles by Detonation Spraying. <i>Nanoscale Research Letters</i> , 2015 , 10, 464	5	22

67	Surface-enhanced Raman scattering by colloidal CdSe nanocrystal submonolayers fabricated by the Langmuir-Blodgett technique. <i>Beilstein Journal of Nanotechnology</i> , 2015 , 6, 2388-95	3	7
66	Stable Dispersion of Iodide-Capped PbSe Quantum Dots for High-Performance Low-Temperature Processed Electronics and Optoelectronics. <i>Chemistry of Materials</i> , 2015 , 27, 4328-4337	9.6	52
65	Photochemical formation and photoelectrochemical properties of TiO ₂ /Sb ₂ S ₃ heterostructures. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2015 , 303-304, 8-16	4.7	26
64	Nanocrystalline TiO ₂ /Au films: Photocatalytic deposition of gold nanocrystals and plasmonic enhancement of Raman scattering from titania. <i>Materials Science in Semiconductor Processing</i> , 2015 , 37, 3-8	4.3	15
63	Raman Scattering in Superlattices with Ge Quantum Dots. <i>Ukrainian Journal of Physics</i> , 2015 , 60, 1224-1233	3.3	14
62	Photoelectrochemical and Raman characterization of nanocrystalline CdS grown on ZnO by successive ionic layer adsorption and reaction method. <i>Thin Solid Films</i> , 2014 , 562, 56-62	2.2	9
61	Free-standing graphene monolayers in carbon-based composite obtained from SiC: Raman diagnostics. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 1674-1678	1.6	4
60	Colloidal ZnO nanocrystals in dimethylsulfoxide: a new synthesis, optical, photo- and electroluminescent properties. <i>Nanotechnology</i> , 2014 , 25, 075601	3.4	17
59	Non-stoichiometry effect and disorder in Cu ₂ ZnSnS ₄ thin films obtained by flash evaporation: Raman scattering investigation. <i>Acta Materialia</i> , 2014 , 65, 412-417	8.4	83
58	In situ photoluminescence/Raman study of reversible photo-induced structural transformation of nc-Si. <i>Materials Research Express</i> , 2014 , 1, 045905	1.7	4
57	Raman Scattering Study of Cu ₃ SnS ₄ Colloidal Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 27554-27558	3.8	41
56	Raman and Infrared Phonon Spectra of Ultrasmall Colloidal CdS Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 19492-19497	3.8	43
55	Electronic structure, optical properties, and lattice dynamics of orthorhombic Cu ₂ CdGeS ₄ and Cu ₂ CdSiS ₄ semiconductors. <i>Physical Review B</i> , 2014 , 90,	3.3	28
54	Raman scattering in orthorhombic CuInS ₂ nanocrystals. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 195-199	1.6	18
53	Anharmonic interactions and temperature effects in Raman spectra of Si nanostructures. <i>Solid State Communications</i> , 2014 , 195, 39-42	1.6	9
52	Synthesis and luminescent properties of ultrasmall colloidal CdS nanoparticles stabilized by Cd(II) complexes with ammonia and mercaptoacetate. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	18
51	Spectral and luminescent properties of ZnO@SiO ₂ core-shell nanoparticles with size-selected ZnO cores. <i>RSC Advances</i> , 2014 , 4, 63393-63401	3.7	42
50	Morphology, optical, and photoelectrochemical properties of electrodeposited nanocrystalline ZnO films sensitized with Cd x Zn _{1-x} S nanoparticles. <i>Journal of Materials Science</i> , 2013 , 48, 7764-7773	4.3	13

49	Raman- and IR-Active Phonons in CdSe/CdS Core/Shell Nanocrystals in the Presence of Interface Alloying and Strain. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 18225-18233	3.8	55
48	Optically induced structural transformation in disordered kesterite Cu ₂ ZnSnS ₄ . <i>JETP Letters</i> , 2013 , 98, 255-258	1.2	56
47	Nonresonant surface-enhanced Raman scattering of ZnO quantum dots with Au and Ag nanoparticles. <i>ACS Nano</i> , 2013 , 7, 3420-6	16.7	69
46	CdZnS quantum dots formed by the Langmuir-Blodgett technique. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2013 , 31, 04D109	1.3	13
45	Thin films of Cu ₂ ZnSnS ₄ for solar cells: optical and structural properties. <i>Functional Materials</i> , 2013 , 20, 186-191	0.6	11
44	Modification by thermal annealing of the luminescent characteristics of CdSe quantum dots in gelatin films. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012 , 9, 1779-1782		4
43	Phonon Spectra of Small Colloidal II-VI Semiconductor Nanocrystals. <i>International Journal of Spectroscopy</i> , 2012 , 2012, 1-6		22
42	Many particle approach to resonance Raman scattering in crystals: Strong electron-phonon interaction and multi-phonon processes. <i>Chemical Physics</i> , 2011 , 388, 57-68	2.3	13
41	Resonant Raman scattering in ultrafine CdS _x Se _{1-x} colloidal particles. <i>Bulletin of the Lebedev Physics Institute</i> , 2011 , 38, 48-51	0.5	2
40	Vibrational Raman spectra of CdS _x Se _{1-x} magic-size nanocrystals. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011 , 5, 250-252	2.5	10
39	Preparation and optical properties of polyethyleneimine-stabilized colloidal CdSe and CdS _x Se _{1-x} quantum dots. <i>Theoretical and Experimental Chemistry</i> , 2011 , 46, 416-421	1.3	8
38	Phonon Raman spectra of colloidal CdTe nanocrystals: effect of size, non-stoichiometry and ligand exchange. <i>Nanoscale Research Letters</i> , 2011 , 6, 79	5	56
37	The influence of pyridine ligand onto the structure and phonon spectra of CdSe nanocrystals. <i>Journal of Applied Physics</i> , 2011 , 109, 084334	2.5	32
36	Size-Dependent Optical Properties of Colloidal ZnO Nanoparticles Charged by Photoexcitation. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 220-225	3.8	65
35	Synthesis and Characterization of White-Emitting CdS Quantum Dots Stabilized with Polyethylenimine. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 22478-22486	3.8	55
34	Theoretical and experimental Raman study of superlattices with GeSi quantum dots. <i>European Physical Journal B</i> , 2010 , 74, 409-413	1.2	2
33	Preparation and spectral properties of high-efficiency luminescent polyethyleneimine-stabilized CdS quantum dots. <i>Theoretical and Experimental Chemistry</i> , 2010 , 46, 233-238	1.3	8
32	Dynamics of the radiative recombination of charge carriers in CdS nanoparticles stabilized with polyethyleneimine. <i>Theoretical and Experimental Chemistry</i> , 2010 , 46, 273-278	1.3	8

31	A spectroscopic and photochemical study of Ag(+)-, Cu(2+)-, Hg(2+)-, and Bi(3+)-doped Cd(x)Zn(1-x)S nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2010 , 345, 515-23	9.3	22
30	Many particle approach to excitons in crystals: Electron-electron and electron-phonon interactions. <i>Journal of Molecular Structure</i> , 2010 , 976, 205-214	3.4	3
29	Raman scattering in crystal multilayer structures with quantum dots: Theoretical and experimental study. <i>Superlattices and Microstructures</i> , 2010 , 48, 85-105	2.8	1
28	Optimization of porous silicon preparation technology for SERS applications. <i>Applied Surface Science</i> , 2010 , 256, 3369-3373	6.7	35
27	Optical studies of the evolution of the core/shell interface in CdSe- and CdS-based core/shell nanostructures with a narrow-gap shell. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, 402-406		
26	Spectral features above LO phonon frequency in resonant Raman scattering spectra of small CdSe nanoparticles. <i>Journal of Applied Physics</i> , 2009 , 106, 084318	2.5	58
25	Resonant Raman spectroscopy of confined and surface phonons in CdSe-capped CdS nanoparticles. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, 2043-2046		15
24	The influence of shell parameters on phonons in core-shell nanoparticles: a resonant Raman study. <i>Nanotechnology</i> , 2009 , 20, 365704	3.4	45
23	Resonant Raman study of phonons in high-quality colloidal CdTe nanoparticles. <i>Applied Physics Letters</i> , 2009 , 94, 243101	3.4	38
22	Nanostructured Silver Substrates With Stable and Universal SERS Properties: Application to Organic Molecules and Semiconductor Nanoparticles. <i>Nanoscale Research Letters</i> , 2009 , 5, 403-9	5	30
21	Optical studies of CdSe/HgSe and CdSe/Ag ₂ Se core/shell nanoparticles embedded in gelatin. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 455203	1.8	10
20	Structural and optical characterization of colloidal Se nanoparticles prepared via the acidic decomposition of sodium selenosulfate. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008 , 320, 169-174	5.1	23
19	Annealing-induced structural transformation of gelatin-capped Se nanoparticles. <i>Solid State Communications</i> , 2008 , 145, 288-292	1.6	28
18	Characterization of semiconductor core-shell nanoparticles by resonant Raman scattering and photoluminescence spectroscopy. <i>Applied Surface Science</i> , 2008 , 255, 725-727	6.7	14
17	Size effects on Raman spectra of small CdSe nanoparticles in polymer films. <i>Nanotechnology</i> , 2008 , 19, 305707	3.4	71
16	Structure and spectral-optical characteristics of Se, Se/CdS, and Se/Cd _{0.5} Zn _{0.5} S nanoparticles, stabilized in polymer-containing media. <i>Theoretical and Experimental Chemistry</i> , 2007 , 43, 28-34	1.3	1
15	Nanosecond and microsecond decay of photogenerated charges in Cd _x Zn _{1-x} S nanoparticles. <i>Theoretical and Experimental Chemistry</i> , 2007 , 43, 297-305	1.3	16
14	Optical and photoelectrical properties of GeSi nanoislands. <i>Semiconductor Science and Technology</i> , 2007 , 22, 326-329	1.8	9

13	Optical study of CdS- and ZnS-passivated CdSe nanocrystals in gelatin films. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 386237	1.8	21
12	Resonant Raman scattering study of CdSe nanocrystals passivated with CdS and ZnS. <i>Nanotechnology</i> , 2007 , 18, 285701	3.4	83
11	Exciton-phonon interaction in crystals and quantum size structures. <i>Journal of Physics: Conference Series</i> , 2007 , 92, 012061	0.3	2
10	Temperature-dependent resonant Raman scattering study of core/shell nanocrystals. <i>Journal of Physics: Conference Series</i> , 2007 , 92, 012045	0.3	9
9	Growth and spectroscopic characterization of CdSe nanoparticles synthesized from CdCl ₂ and Na ₂ SeSO ₃ in aqueous gelatine solutions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006 , 290, 304-309	5.1	56
8	Strain relaxation in thin SiGe epilayers doped with carbon. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006 , 253, 27-30	1.2	
7	The correlation between the surface-energy minima and the shape of self-induced SiGe nanoislands. <i>Semiconductors</i> , 2006 , 40, 385-390	0.7	
6	Spectral and photochemical characteristics of CdSe nanoparticles stabilized in polymer-containing media. <i>Theoretical and Experimental Chemistry</i> , 2006 , 42, 162-168	1.3	
5	Raman study of self-assembled SiGe nanoislands grown at low temperatures. <i>Nanotechnology</i> , 2005 , 16, 1464-1468	3.4	22
4	Experimental and theoretical study of the influence of growth temperature on composition in self-assembled SiGe QD's. <i>Materials Science and Engineering C</i> , 2005 , 25, 565-569	8.3	2
3	Effect of surface energy minima on the shape of self-induced SiGe nanoislands. <i>Physica Status Solidi (B): Basic Research</i> , 2005 , 242, 2833-2837	1.3	1
2	Theoretical and experimental investigations of single- and multilayer structures with SiGe nanoislands. <i>Materials Science and Engineering C</i> , 2003 , 23, 1027-1031	8.3	14
1	Optical Properties and Lattice Dynamics of Pure and S-Alloyed Cu _{1-x} Zn _x SnTe Semiconductors: First-Principles Calculations and Raman Scattering. <i>Physica Status Solidi (B): Basic Research</i> , 2100618	1.3	