

# Victor A Nadtochenko

## List of Publications by Citations

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180  
papers

1,709  
citations

18  
h-index

36  
g-index

183  
ext. papers

1,960  
ext. citations

2.7  
avg, IF

4.65  
L-index

#	Paper	IF	Citations
180	Antibacterial effects of silver nanoparticles on gram-negative bacteria: influence on the growth and biofilms formation, mechanisms of action. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2013</b> , 102, 300-6	6	292
179	Preparation, testing and characterization of doped TiO <sub>2</sub> active in the peroxidation of biomolecules under visible light. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 5994-6003	3.4	190
178	Primary electron transfer processes in photosynthetic reaction centers from oxygenic organisms. <i>Photosynthesis Research</i> , <b>2015</b> , 125, 51-63	3.7	80
177	Femtosecond primary charge separation in <i>Synechocystis</i> sp. PCC 6803 photosystem I. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2010</b> , 1797, 1410-20	4.6	79
176	Preparation and Mechanism of Cu-Decorated TiO <sub>2</sub> -ZrO <sub>2</sub> Films Showing Accelerated Bacterial Inactivation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 12832-9	9.5	59
175	Encapsulation of ruthenium(II) with macrobicyclic dioxime-functionalized ligands: on the way to new types of DNA-cleaving agents and probes. <i>Dalton Transactions RSC</i> , <b>2002</b> , 1203-1211		47
174	P680 (P(D1)P(D2)) and Chl(D1) as alternative electron donors in photosystem II core complexes and isolated reaction centers. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2011</b> , 104, 44-50	6.7	41
173	Photochemical and photophysical properties of meso-tetraferrocenylporphyrin. Quenching of meso-tetraphenylporphyrin by ferrocene. <i>Russian Chemical Bulletin</i> , <b>1999</b> , 48, 1900-1903	1.7	38
172	Primary light-energy conversion in tetrameric chlorophyll structure of photosystem II and bacterial reaction centers: II. Femto- and picosecond charge separation in PSII D1/D2/Cyt b559 complex. <i>Photosynthesis Research</i> , <b>2008</b> , 98, 95-103	3.7	36
171	Photobleaching of Orange II within seconds using the oxone/Co <sup>2+</sup> reagent through Fenton-like chemistry. <i>Chemical Communications</i> , <b>2003</b> , 2382-3	5.8	29
170	Evidence that histidine forms a coordination bond to the A(0A) and A(0B) chlorophylls and a second H-bond to the A(1A) and A(1B) phylloquinones in M688H(PsaA) and M668H(PsaB) variants of <i>Synechocystis</i> sp. PCC 6803. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2014</b> , 1837, 1362-75	4.6	27
169	Mechanism of adiabatic primary electron transfer in photosystem I: Femtosecond spectroscopy upon excitation of reaction center in the far-red edge of the Q band. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2017</b> , 1858, 895-905	4.6	26
168	Study of the HNO + HNO and HNO + NO reactions by intracavity laser spectroscopy. <i>International Journal of Chemical Kinetics</i> , <b>1981</b> , 13, 1041-1050	1.4	22
167	Tuning photochemical properties of phosphorus(v) porphyrin photosensitizers. <i>Chemical Communications</i> , <b>2017</b> , 53, 9918-9921	5.8	21
166	Antimicrobial effect of metallic and semiconductor nanoparticles. <i>Nanotechnologies in Russia</i> , <b>2010</b> , 5, 277-289	0.6	21
165	Femtosecond Spectroscopy of Au Hot-Electron Injection into TiO <sub>2</sub> Evidence for Au/TiO <sub>2</sub> Plasmon Photocatalysis by Bactericidal Au Ions and Related Phenomena. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	20
164	Correlating microscopy techniques and ToF-SIMS analysis of fully grown mammalian oocytes. <i>Analyst, The</i> , <b>2016</b> , 141, 4121-9	5	20

163	Spectral properties of the surface plasmon resonance and electron injection from gold nanoparticles to TiO <sub>2</sub> mesoporous film: femtosecond study. <i>Photochemical and Photobiological Sciences</i> , <b>2013</b> , 12, 631-7	4.2	19
162	Insight into the catalyst/photocatalyst microstructure presenting the same composition but leading to a variance in bacterial reduction under indoor visible light. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 208, 135-147	21.8	18
161	First unambiguous evidence for distinct ionic and surface-contact effects during photocatalytic bacterial inactivation on CuAg films: Kinetics, mechanism and energetics. <i>Materials Today Chemistry</i> , <b>2017</b> , 6, 62-74	6.2	17
160	Femtosecond relaxation of photoexcited states in nanosized semiconductor particles of iron oxides. <i>Russian Chemical Bulletin</i> , <b>2002</b> , 51, 457-461	1.7	17
159	Effects of a Central Atom and Peripheral Substituents on Photoinduced Electron Transfer in the Phthalocyanine-Bullerene Donor-Acceptor Solution-Processable Dyads. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 4010-4023	3.8	16
158	Ultrafast Spectroscopy of Fano-Like Resonance between Optical Phonon and Excitons in CdSe Quantum Dots: Dependence of Coherent Vibrational Wave-Packet Dynamics on Pump Fluence. <i>Nanomaterials</i> , <b>2017</b> , 7,	5.4	16
157	PSI-SMALP, a Detergent-free Cyanobacterial Photosystem I, Reveals Faster Femtosecond Photochemistry. <i>Biophysical Journal</i> , <b>2020</b> , 118, 337-351	2.9	16
156	Femtosecond formation dynamics of primary photoproducts of visual pigment rhodopsin. <i>Biochemistry (Moscow)</i> , <b>2010</b> , 75, 25-35	2.9	15
155	OCT-guided laser hyperthermia with passively tumor-targeted gold nanoparticles. <i>Journal of Biophotonics</i> , <b>2010</b> , 3, 718-27	3.1	14
154	FeOx-TiO <sub>2</sub> Film with Different Microstructures Leading to Femtosecond Transients with Different Properties: Biological Implications under Visible Light. <i>Scientific Reports</i> , <b>2016</b> , 6, 30113	4.9	13
153	Evidence that chlorophyll f functions solely as an antenna pigment in far-red-light photosystem I from <i>Fischerella thermalis</i> PCC 7521. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2020</b> , 1861, 148184	4.6	12
152	Femtosecond laser synthesis of nitrogen-doped luminescent carbon dots from acetonitrile. <i>Dyes and Pigments</i> , <b>2021</b> , 188, 109176	4.6	12
151	Visualization of the spatial distribution of Pt <sup>+</sup> ions in cisplatin-treated glioblastoma cells by time-of-flight secondary ion mass spectrometry. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , <b>2015</b> , 9, 202-209	0.7	11
150	Evidence for differentiated ionic and surface contact effects driving bacterial inactivation by way of genetically modified bacteria. <i>Chemical Communications</i> , <b>2017</b> , 53, 9093-9096	5.8	11
149	Photochemical properties of photosystem 1 immobilized in a mesoporous semiconductor matrix. <i>High Energy Chemistry</i> , <b>2012</b> , 46, 200-205	0.9	11
148	Ultrafast excited state dynamics of a stilbene-biologen charge transfer complex and its interaction with alkanediammonium salts. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2019</b> , 372, 89-98	4.7	11
147	Fusion of blastomeres in mouse embryos under the action of femtosecond laser radiation. Efficiency of blastocyst formation and embryo development. <i>Quantum Electronics</i> , <b>2015</b> , 45, 498-502	1.8	10
146	Femtosecond spectroscopy and TD-DFT calculations of CuCl <sub>4</sub> (2-) excited states. <i>Dalton Transactions</i> , <b>2014</b> , 43, 17820-7	4.3	10

145	Formation of a supramolecular charge-transfer complex. Ultrafast excited state dynamics and quantum-chemical calculations. <i>Photochemical and Photobiological Sciences</i> , <b>2019</b> , 18, 232-241	4.2	9
144	ToF-SIMS depth profiling of nanoparticles: Chemical structure of core-shell quantum dots. <i>Applied Surface Science</i> , <b>2019</b> , 481, 144-150	6.7	9
143	Complexation of Donor-Acceptor Substituted Aza-Crowns with Alkali and Alkaline Earth Metal Cations. Charge Transfer and Reoordination in Excited State. <i>Journal of Fluorescence</i> , <b>2016</b> , 26, 585-92	2.4	9
142	Formation and decay of P680 (P(D1)-P(D2))+PheoD1? radical ion pair in photosystem II core complexes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2014</b> , 1837, 1384-8	4.6	9
141	Secondary ion mass spectrometric signal enhancement of phosphatidylcholine dioleoyl on enlarged nanoparticles surface. <i>Applied Surface Science</i> , <b>2014</b> , 316, 36-41	6.7	8
140	Effect of Dehydrated Trehalose Matrix on the Kinetics of Forward Electron Transfer Reactions in Photosystem I. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2017</b> , 231, 325-345	3.1	8
139	ATP-Mediated Compositional Change in Peripheral Myelin Membranes: A Comparative Raman Spectroscopy and Time-Of-Flight Secondary Ion Mass Spectrometry Study. <i>PLoS ONE</i> , <b>2015</b> , 10, e0142084	3.7	8
138	Femtosecond laser spectroscopy of the rhodopsin photochromic reaction: a concept for ultrafast optical molecular switch creation (ultrafast reversible photoreaction of rhodopsin). <i>Molecules</i> , <b>2014</b> , 19, 18351-66	4.8	8
137	Long-lived coherent oscillations of the femtosecond transients in cyanobacterial photosystem I. <i>Physical Chemistry Chemical Physics</i> , <b>2006</b> , 8, 5671-8	3.6	8
136	Primary charge separation within the structurally symmetric tetrameric ChlPPChl chlorophyll exciplex in photosystem I. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2021</b> , 217, 112154	6.7	8
135	Generation of ion-radical chlorophyll states in the light-harvesting antenna and the reaction center of cyanobacterial photosystem I. <i>Photosynthesis Research</i> , <b>2020</b> , 146, 55-73	3.7	7
134	Femtosecond Optical Trap-Assisted Nanopatterning through Microspheres by a Single Ti:Sapphire Oscillator. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 12562-12571	3.8	7
133	Conical intersection participation in femtosecond dynamics of visual pigment rhodopsin chromophore cis-trans photoisomerization. <i>Doklady Biochemistry and Biophysics</i> , <b>2012</b> , 446, 242-6	0.8	7
132	Photochromism of visual pigment rhodopsin on the femtosecond time scale: coherent control of retinal chromophore isomerization. <i>Doklady Biochemistry and Biophysics</i> , <b>2010</b> , 435, 302-6	0.8	7
131	Nanophotobiocatalysts based on mesoporous titanium dioxide films conjugated with enzymes and photosynthetic reaction centers of bacteria. <i>High Energy Chemistry</i> , <b>2008</b> , 42, 591-593	0.9	7
130	Monitoring the electric field in CdSe quantum dots under ultrafast interfacial electron transfer via coherent phonon dynamics. <i>Nanoscale</i> , <b>2018</b> , 10, 22409-22419	7.7	7
129	Production of gold nanoparticles by biogenesis using bacteria. <i>Microbiology</i> , <b>2016</b> , 85, 63-70	1.4	6
128	Excitation of photosystem I by 760 nm femtosecond laser pulses: transient absorption spectra and intermediates. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2017</b> , 50, 174001	1.3	6

127	Primary steps of electron and energy transfer in photosystem I: effect of excitation pulse wavelength. <i>Biochemistry (Moscow)</i> , <b>2012</b> , 77, 1011-20	2.9	6
126	Interaction of the iridium(III) trihydridophosphine complex with fullerene C60 under thermal and photochemical excitation. <i>Russian Chemical Bulletin</i> , <b>1997</b> , 46, 2032-2035	1.7	6
125	Specific spectral properties of a photochromic ferromagnetic (C25H23N3O3Cl)CrMn(C2O4)3H2O. <i>Russian Chemical Bulletin</i> , <b>2007</b> , 56, 1095-1102	1.7	6
124	Femtosecond dynamics of relaxation of photoexcited meso-tetraferrocenylporphyrin in the nonprotonated and diprotonated forms (Fc4PH2 and Fc4PH42+). <i>Russian Chemical Bulletin</i> , <b>2002</b> , 51, 986-993	1.7	6
123	Photophysical properties of (I <sub>2</sub> -C60)Pd(PPh3)2 complex in benzene. Picosecond and nanosecond laser photolysis. <i>Russian Chemical Bulletin</i> , <b>1996</b> , 45, 1103-1106	1.7	6
122	Probing Intracellular Dynamics Using Fluorescent Carbon Dots Produced by Femtosecond Laser. <i>ACS Omega</i> , <b>2020</b> , 5, 12527-12538	3.9	6
121	Multiexponential dynamics of Mn <sup>2+</sup> (3d <sup>5</sup> ) excitation in manganese doped ZnCdS quantum dots: Stimulated emission band in femtosecond transient spectra reveals ultrafast nonradiative energy transfer to Mn <sup>2+</sup> (3d <sup>5</sup> ). <i>Chemical Physics Letters</i> , <b>2020</b> , 743, 137160	2.5	6
120	Role of hydrogen bond alternation and charge transfer states in photoactivation of the Orange Carotenoid Protein. <i>Communications Biology</i> , <b>2021</b> , 4, 539	6.7	6
119	Femtosecond Laser Synthesis of Luminescent Carbon Dots from Toluene. <i>JETP Letters</i> , <b>2019</b> , 110, 464-471	4.1	6
118	Dynamics of excited-state intramolecular proton-transfer in 2-amino-3-(2Rbenzazolyl)quinoline cations. <i>Photochemical and Photobiological Sciences</i> , <b>2017</b> , 16, 1139-1145	4.2	5
117	Femtosecond and Picosecond Dynamics of Recombinant Bacteriorhodopsin Primary Reactions Compared to the Native Protein in Trimeric and Monomeric Forms. <i>Biochemistry (Moscow)</i> , <b>2017</b> , 82, 490-500	2.9	5
116	Femtosecond excited state dynamics of a stilbene-viologen charge transfer complex assembled via host-guest interaction. <i>Photochemical and Photobiological Sciences</i> , <b>2017</b> , 16, 1801-1811	4.2	5
115	Visible and Near Infrared Absorption Spectrum of the Excited Singlet State of Chlorophyll a. <i>High Energy Chemistry</i> , <b>2020</b> , 54, 145-147	0.9	5
114	Complexation of bis-crown stilbene with alkali and alkaline-earth metal cations. Ultrafast excited state dynamics of the stilbene-viologen analogue charge transfer complex. <i>Journal of Physical Organic Chemistry</i> , <b>2018</b> , 31, e3759	2.1	5
113	Visualization of the spatial distribution of Ag ions in cyanobacteria Anabaena sp. PCC 7120 by time-of-flight secondary ion mass spectrometry and two-photon luminescence microscopy. <i>Nanotechnologies in Russia</i> , <b>2016</b> , 11, 361-363	0.6	5
112	Molecular magnetic structures based on high-spin intermediates of low-temperature radiolysis of azido derivatives and possibilities of their use in undulator systems. <i>Russian Chemical Bulletin</i> , <b>2013</b> , 62, 255-264	1.7	5
111	Fourier transform infrared spectroscopic study of the photocatalytic degradation of cancerous cells on titanium dioxide. <i>High Energy Chemistry</i> , <b>2010</b> , 44, 426-430	0.9	5
110	Synthesis and photochemical and magnetic properties of Cr, Mn, Fe, and Co complexes based on the 1-((1,3,3-trimethylspiro[2H-1-benzopyran-2,2'-indolin]-8-yl)methyl)pyridinium cation. <i>Russian Chemical Bulletin</i> , <b>2008</b> , 57, 1451-1460	1.7	5

109	Coherent processes in formation of primary products of rhodopsin photolysis. <i>Doklady Biochemistry and Biophysics</i> , <b>2008</b> , 421, 194-8	0.8	5
108	Photochemical study of the zinc cis-3-(4-imidazolylphenyl)-1-(pyridin-2-yl)[60]fullereno[1,2-c]pyrrolidine-meso-tetraphenylporphyrinate dyad. <i>Russian Chemical Bulletin</i> , <b>2006</b> , 55, 1598-1604	1.7	5
107	EFFECT OF TRANSMEMBRANE POTENTIAL ON CHARGE PHOTOSEPARATION IN LIPOSOMES. <i>Photochemistry and Photobiology</i> , <b>1991</b> , 53, 261-269	3.6	5
106	Quenching excited triplet C60 fullerene by tetracyanoethylene in benzonitrile. <i>Russian Chemical Bulletin</i> , <b>1993</b> , 42, 1171-1173	1.7	5
105	Femtosecond laser surgery of two-cell mouse embryos: effect on viability, development, and tetraploidization. <i>Journal of Biomedical Optics</i> , <b>2017</b> , 22, 1-9	3.5	5
104	Unprecedented Coordination-Induced Bright Red Emission from Group 12 Metal-Bound Triarylazoimidazoles. <i>Molecules</i> , <b>2021</b> , 26,	4.8	5
103	Femtosecond spectroscopic study of photochromic reactions of bacteriorhodopsin and visual rhodopsin. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2016</b> , 164, 296-305	6.7	5
102	Dynamics of adduct formation of hydroquinone under oxidative conditions observed by laser spectroscopy. <i>Chemical Communications</i> , <b>1997</b> , 41-42	5.8	4
101	Aerosol Dry Printing for SERS and Photoluminescence-Active Gold Nanostructures Preparation for Detection of Traces in Dye Mixtures.. <i>Nanomaterials</i> , <b>2022</b> , 12,	5.4	4
100	Ultrafast Quenching of Excitons in the ZnCdS/ZnS Quantum Dots Doped with Mn through Charge Transfer Intermediates Results in Manganese Luminescence. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	4
99	A novel approach for 3D reconstruction of mice full-grown oocytes by time-of-flight secondary ion mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , <b>2020</b> , 412, 311-319	4.4	4
98	Excitonic Coupling and Femtosecond Relaxation of Zinc Porphyrin Oligomers Linked with Triazole Bridge: Dynamics and Modeling. <i>Journal of Physical Chemistry A</i> , <b>2016</b> , 120, 1961-70	2.8	4
97	Time-of-flight secondary ion mass spectrometry to assess spatial distribution of A2E and its oxidized forms within lipofuscin granules isolated from human retinal pigment epithelium. <i>Analytical and Bioanalytical Chemistry</i> , <b>2016</b> , 408, 7521-8	4.4	4
96	Femtosecond laser-induced blastomere fusion results in embryo tetraploidy by common metaphase plate formation. <i>Experimental Cell Research</i> , <b>2020</b> , 389, 111887	4.2	3
95	Formation of light-absorbing centers induced in cytoplasm of mouse embryos by femtosecond pulsed near-infrared radiation. <i>High Energy Chemistry</i> , <b>2016</b> , 50, 421-423	0.9	3
94	The Use of ToF-SIMS for Analysis of Bioorganic Samples. <i>Biophysics (Russian Federation)</i> , <b>2018</b> , 63, 215-221	1.7	3
93	Structural Features of the Nucleolus in the Mouse Germinal Vesicle Oocyte Revealed by AFM, SEM, and ToF-SIMS. <i>Nanotechnologies in Russia</i> , <b>2017</b> , 12, 444-447	0.6	3
92	Femtosecond dynamics of excited-state intramolecular proton transfer in o-tosylaminobenzaldehyde. <i>High Energy Chemistry</i> , <b>2012</b> , 46, 247-252	0.9	3

91	Femtosecond pulse excitation of vibrational wave packets in chloroform: The effect of gold nanoparticles. <i>High Energy Chemistry</i> , <b>2011</b> , 45, 250-257	0.9	3
90	Relaxation of photoexcited gold nanoparticles in an aqueous colloid and mesoporous TiO <sub>2</sub> films: Influence of the interface. <i>High Energy Chemistry</i> , <b>2011</b> , 45, 428-433	0.9	3
89	Femtosecond optoperforation of the cell wall of cyanobacterium <i>Anabaena</i> sp. PCC 7120 in the presence of gold nanoparticles. <i>Nanotechnologies in Russia</i> , <b>2011</b> , 6, 668-675	0.6	3
88	Enhanced luminescence and two-photon absorption of silver nano-clusters. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2009</b> , 6, S162-S166		3
87	Structure and photochromic and magnetic properties of 1-isopropyl-3,3,5,6-tetramethylspiro[indoline-2,2'-2H-pyrano[3,2-b]pyridinium] tris(oxalato)chromate(III). <i>Russian Chemical Bulletin</i> , <b>2008</b> , 57, 2592-2599	1.7	3
86	Synthesis of a C <sub>60</sub> complex with N,N,N',N'-tetramethyl-p-phenylenediamine and its crystal structure. <i>Russian Chemical Bulletin</i> , <b>1996</b> , 45, 1224-1225	1.7	3
85	Oriental dynamics of C <sub>70</sub> molecules in chlorobenzene. <i>Russian Chemical Bulletin</i> , <b>1996</b> , 45, 560-563	1.7	3
84	Carbazole-functionalized cobalt(II) porphyrin axially bonded with C <sub>60</sub> /C <sub>70</sub> derivatives: synthesis and characterization. <i>New Journal of Chemistry</i> , <b>2021</b> , 45, 9053-9065	3.6	3
83	Synthesis of Silver Nanoparticles with the use of Herbaceous Plant Extracts and Effect of Nanoparticles on Bacteria. <i>Applied Biochemistry and Microbiology</i> , <b>2018</b> , 54, 816-823	1.1	3
82	Effect of laser optoperforation of the zona pellucida on mouse embryo development in vitro. <i>Biochemistry (Moscow)</i> , <b>2015</b> , 80, 769-75	2.9	2
81	Stepwise versus concerted mechanism of photoinduced proton transfer in sec-1,2-dihydroquinolines: effect of excitation wavelength and solvent composition. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 2490-7	3.4	2
80	The binding energy of biexcitons in alloy ZnxCd1-xS quantum dots detected by femtosecond laser spectroscopy. <i>Applied Physics A: Materials Science and Processing</i> , <b>2020</b> , 126, 1	2.6	2
79	Comparisons of Electron Transfer Reactions in a Cyanobacterial Tetrameric and Trimeric Photosystem I Complexes. <i>Photochemistry and Photobiology</i> , <b>2018</b> , 94, 564-569	3.6	2
78	Innovative self-sterilizing transparent Fe <sup>3+</sup> phosphate polyethylene films under visible light. <i>RSC Advances</i> , <b>2016</b> , 6, 77066-77074	3.7	2
77	Anisotropy of Differential Spectra of Gold Nanoparticle Absorption in a TiO <sub>2</sub> Matrix: Electron Injection into the TiO <sub>2</sub> Conduction Band. <i>Russian Journal of Physical Chemistry B</i> , <b>2019</b> , 13, 539-542	1.2	2
76	Femto-picosecond relaxation of triazole-bridged bis(zinc porphyrin). <i>High Energy Chemistry</i> , <b>2014</b> , 48, 276-281	0.9	2
75	Microstructuring of polymer films by femtosecond pulses through optically trapped polystyrene microspheres. <i>Quantum Electronics</i> , <b>2013</b> , 43, 361-364	1.8	2
74	Obtainment of chimeric blastocysts of mice by methods of laser nanosurgery. <i>Russian Journal of Developmental Biology</i> , <b>2013</b> , 44, 302-306	0.8	2

73	Photocatalytic activity of CdS nanocrystals stabilized by a polymer shell and promoted by cobalt and nickel complexes in the reaction of hydrogen evolution. <i>Russian Chemical Bulletin</i> , <b>2017</b> , 66, 2048-2056	1.7	2
72	Spherical gold nanoparticles and SiO <sub>2</sub> /Au core/shell microparticles under intense femtosecond laser excitation: relaxation dynamics of gold nanoparticles and nanostructuring of borosilicate glass using SiO <sub>2</sub> /Au microparticles. <i>Quantum Electronics</i> , <b>2014</b> , 44, 852-858	1.8	2
71	1-Benzyl-3,3,5,6-tetramethylspiro[indoline-2,2'-[2H]pyrano[3,2-b]-pyridinium] iodide, its hydrate, and a neutral precursor of the salts: synthesis, crystal structure, photochromic transformations in solutions and in crystals. <i>Russian Chemical Bulletin</i> , <b>2011</b> , 60, 1401-1408	1.7	2
70	Femtosecond dynamics of photocyclization of 1-[(4-{5-[4-chloromethyl-2,5-dimethyl-3-thienyl]-2-oxo-1,3-dioxol-4-yl}-2,5-dimethyl-3-thienyl)methyl]pyridinium chloride. <i>Russian Chemical Bulletin</i> , <b>2011</b> , 60, 1118-1127	1.7	2
69	Spectra of optical phonons and low-energy electronic transitions in C60/TMPD and C60/TPA single crystals. <i>Russian Chemical Bulletin</i> , <b>1996</b> , 45, 1389-1393	1.7	2
68	The reaction of ethyl 2,6-dimethyl-1,4-dihydropyridine-3,5-dicarboxylate with fullerene C60. <i>Russian Chemical Bulletin</i> , <b>1996</b> , 45, 2402-2404	1.7	2
67	Study of the reactions of the HCO radical by the intraresonator laser spectroscopy method during the pulse photolysis of acetaldehyde. <i>Bulletin of the Academy of Sciences of the USSR Division of Chemical Science</i> , <b>1979</b> , 28, 605-607		2
66	Live cell bioimaging with carbon dots produced in situ by femtosecond laser from intracellular material		2
65	New Evidence for Ag-Sputtered Materials Inactivating Bacteria by Surface Contact without the Release of Ag Ions: End of a Long Controversy?. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 4998-5007	0.5	2
64	Mn <sup>2+</sup> -doped ZnS/CdS alloy nanocrystals for the photocatalytic hydrogen evolution reaction. <i>Mendeleev Communications</i> , <b>2021</b> , 31, 315-318	1.9	2
63	Quantum-classical model of retinal photoisomerization reaction in visual pigment rhodopsin. <i>Doklady Biochemistry and Biophysics</i> , <b>2016</b> , 471, 435-439	0.8	2
62	Monitoring the energy of the metal ion-content plasma-assisted deposition and its implication for bacterial inactivation. <i>Applied Surface Science</i> , <b>2019</b> , 467-468, 749-752	6.7	2
61	Comparative Femtosecond Spectroscopy of Primary Photoreactions of Rhodopsin and Bacteriorhodopsin. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 995-1008	3.4	2
60	Nitrogen-Doped Carbon Nanodots Produced by Femtosecond Laser Synthesis for Effective Fluorophores. <i>ACS Omega</i> , <b>2022</b> , 7, 6810-6823	3.9	2
59	Physicochemical Mechanisms of Nanostructuring of Glass by Femtosecond Laser Pulses with the Use of Selective Etching. <i>JETP Letters</i> , <b>2019</b> , 109, 292-297	1.2	1
58	Electron transfer in photosystem I containing native and modified quinone acceptors. <i>Biochemistry (Moscow)</i> , <b>2015</b> , 80, 654-61	2.9	1
57	Effect of femtosecond laser radiation on mammalian oocytes. <i>Russian Journal of Physical Chemistry B</i> , <b>2016</b> , 10, 816-819	1.2	1
56	Antibacterial activity of monolayer nanoparticulate AgN-(titanium-oxo-alkoxy) coatings. <i>Mechanics and Industry</i> , <b>2016</b> , 17, 504	0.8	1

55	Relaxation Kinetics of Excitonic States in ZnSe Quantum Dots: A Femtosecond Laser Spectroscopy Study. <i>High Energy Chemistry</i> , <b>2018</b> , 52, 283-288	0.9	1
54	Primary radical ion pairs in photosystem II core complexes. <i>Biochemistry (Moscow)</i> , <b>2014</b> , 79, 197-204	2.9	1
53	Nonlinear optical effects of near-IR femtosecond laser radiation on the morphology and structure of a nerve cell in the field of an optical trap. <i>Russian Journal of Physical Chemistry B</i> , <b>2012</b> , 6, 362-367	1.2	1
52	Optical trapping of microparticles from a stream in vacuum. <i>Nanotechnologies in Russia</i> , <b>2013</b> , 8, 664-671	0.6	1
51	Spectral and kinetic parameters of transient species in the photolysis of naphthylmethylideneiminospironaphthopyran by excitation at different wavelengths: Nano- and femtosecond laser photolysis. <i>High Energy Chemistry</i> , <b>2013</b> , 47, 120-126	0.9	1
50	Femtosecond dynamics of primary processes in visual pigment rhodopsin. <i>Russian Journal of Physical Chemistry B</i> , <b>2014</b> , 8, 510-517	1.2	1
49	Tunneling proton transfer in biological systems. Role of temperature and pressure. <i>Russian Journal of Physical Chemistry A</i> , <b>2012</b> , 86, 1399-1406	0.7	1
48	Use of a film modulator with single-walled carbon nanotubes for mode locking in a pulse titanium-sapphire laser at a wavelength of 810 nm. <i>High Energy Chemistry</i> , <b>2010</b> , 44, 530-533	0.9	1
47	Photothermolysis of tumor with gold nanoparticles guided by NIR and acoustic thermometries <b>2010</b> ,		1
46	Plasmon resonance gold nanoparticles for improving optical diagnostics and photothermal therapy of tumor <b>2010</b> ,		1
45	Investigation of biodistribution of gold nanoparticles in healthy animals. <i>Nanotechnologies in Russia</i> , <b>2010</b> , 5, 409-416	0.6	1
44	Single-molecule force spectroscopy of a protein globule covalently bound to a calcite surface. <i>Russian Journal of Physical Chemistry B</i> , <b>2008</b> , 2, 350-353	1.2	1
43	Femtosecond dynamics of excitations and electron-electron interactions in single-wall carbon nanotubes. <i>Doklady Physics</i> , <b>2005</b> , 50, 12-17	0.8	1
42	Photophysical properties of the extract of endometallofullerenes La@C <sub>2n</sub> in ortho-dichlorobenzene. Picosecond laser photolysis. <i>Russian Chemical Bulletin</i> , <b>1999</b> , 48, 1897-1899	1.7	1
41	Charge-transfer complexes of fullerene C <sub>70</sub> and ternary amines in chlorobenzene. Picosecond dynamics of charge recombination. <i>Russian Chemical Bulletin</i> , <b>1996</b> , 45, 1091-1098	1.7	1
40	Preparation of a stable ultradispersed AgBr colloid in water-oil microemulsions. <i>Bulletin of the Academy of Sciences of the USSR Division of Chemical Science</i> , <b>1989</b> , 38, 422-423		1
39	Multimodal approach to reveal the effect of light irradiation on chemical composition of lipofuscin granules of human RPE tissues. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1695, 012063	0.3	1
38	Optical trapping of nucleolus reveals viscoelastic properties of nucleoplasm inside mouse germinal vesicle oocytes		1

37	Intramolecular photo-driven electron transfer in the series of DMABN related compounds with para-substituted acceptors. Study of the rate constants by Marcus theory. <i>Journal of Physical Organic Chemistry</i> , <b>2020</b> , 33, e4041	2.1	1
36	Relaxation Dynamics of Excited States in Mn <sup>2+</sup> -Doped ZnCdS (Core)/ZnS (Shell) Quantum Dots Ions in Propylene Carbonate. <i>High Energy Chemistry</i> , <b>2020</b> , 54, 421-426	0.9	1
35	Methodology for Determining the Dynamics of Development of Single Cavitation Bubbles in Aqueous Medium upon Optical Breakdown. <i>High Energy Chemistry</i> , <b>2020</b> , 54, 294-295	0.9	1
34	Comparative activity of aqueous dispersions of CdS nanocrystals stabilized by cationic and anionic polyelectrolytes in photocatalytic hydrogen production from water. <i>Russian Chemical Bulletin</i> , <b>2018</b> , 67, 1803-1806	1.7	1
33	Photo-induced environmental remediation, biomedical imaging, and microbial inactivation by Mn-doped semiconductors: critical issues. <i>Current Opinion in Chemical Engineering</i> , <b>2021</b> , 34, 100731	5.4	1
32	The donor-acceptor dyad based on high substituted fullerene[70]pyrrolidine-coordinated manganese (III) phthalocyanine for photoinduced electron transfer. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2021</b> , 263, 120166	4.4	1
31	Pulse heating of water at the surface of gold nanoparticles: Femtosecond laser spectroscopy of energy relaxation of aqueous colloid of plasmonic nanoparticles under strong excitation conditions. <i>High Energy Chemistry</i> , <b>2015</b> , 49, 336-340	0.9	0
30	Quantum-classical model of the rhodopsin retinal chromophore cis-trans photoisomerization with modified inter-subsystem coupling. <i>Computational and Theoretical Chemistry</i> , <b>2020</b> , 1181, 112831	2	0
29	Effect of acetic acid on the adhesion-capillary interaction of an atomic force microscope probe with immunoglobulin G. <i>Russian Journal of Physical Chemistry A</i> , <b>2011</b> , 85, 2197-2202	0.7	0
28	Femtosecond laser oocyte enucleation as a low-invasive and effective method of recipient cytoplasm preparation. <i>Biomedical Optics Express</i> , <b>2022</b> , 13, 1447-1456	3.5	0
27	Femtochemistry of Rhodopsins. <i>Russian Journal of Physical Chemistry B</i> , <b>2021</b> , 15, 344-351	1.2	0
26	Symmetry breaking in photosystem I: ultrafast optical studies of variants near the accessory chlorophylls in the A- and B-branches of electron transfer cofactors. <i>Photochemical and Photobiological Sciences</i> , <b>2021</b> , 20, 1209-1227	4.2	0
25	Structural and Optical Properties of Mn <sup>2+</sup> -Doped ZnCdS/ZnS Core/Shell Quantum Dots: New Insights in Mn <sup>2+</sup> Localization for Higher Luminescence Sensing. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2022</b> , 113946	4.7	0
24	Sample Preparation of Biological Tissues and Cells for the Time-of-Flight Secondary Ion Mass Spectrometry. <i>Journal of Analytical Chemistry</i> , <b>2020</b> , 75, 701-710	1.1	
23	Femtosecond relaxation of zinc porphyrinate trimer linked by the triazole bridge. <i>Russian Chemical Bulletin</i> , <b>2014</b> , 63, 76-81	1.7	
22	Femtosecond dynamics of excited-state intramolecular proton transfer in o-tosylaminobenzoic and o-acetylaminobenzoic acids. <i>High Energy Chemistry</i> , <b>2013</b> , 47, 315-321	0.9	
21	Applicability of TOF-SIMS for the assessment of lipid composition of cell membrane structures. <i>Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology</i> , <b>2017</b> , 11, 144-150	0.7	
20	Stimulation of HaCaT keratinocyte and rat mesenchymal stromal cell proliferation by femtosecond laser pulses. <i>Cell and Tissue Biology</i> , <b>2015</b> , 9, 441-446	0.4	

19	Anisotropy time dependence of photoexcited C60 and C70 in transient grating experiments. Solvent effect. <i>Research on Chemical Intermediates</i> , <b>1997</b> , 23, 479-503	2.8
18	Charge recombination in photoexcited charge transfer complexes between fullerenes and triphenylamine. Effect of the solvent polarity. <i>Russian Chemical Bulletin</i> , <b>1997</b> , 46, 1074-1081	1.7
17	Dynamics of photoexcited donor-acceptor complexes between C60 and N,N-diethylaniline. Polarization picosecond spectroscopy study. <i>Russian Chemical Bulletin</i> , <b>1997</b> , 46, 1531-1535	1.7
16	Effect of solvation on the reaction rate constants of the diphenylaminyl radical with phenols and hydroquinones. <i>Russian Chemical Bulletin</i> , <b>2007</b> , 56, 91-96	1.7
15	Ultrashort pulse generation in a neodymium glass laser with a nanocomposite film of carboxymethyl cellulose and single-wall carbon nanotubes as a saturable absorber for passive mode locking. <i>Nanotechnologies in Russia</i> , <b>2008</b> , 3, 507-509	0.6
14	Dynamics and spectra of excited states of water-micellar suspensions of single-walled carbon nanotubes. <i>JETP Letters</i> , <b>2004</b> , 80, 176-180	1.2
13	Spectra of low-pressure flames formed by hydrocarbons with F and F2. <i>Combustion, Explosion and Shock Waves</i> , <b>1979</b> , 15, 754-757	1
12	Enhanced Nonlinear Photoluminescence of Au-carbon Dot Nanohybrids Produced by Photocatalytic Reduction of Au(III) Ions. <i>JETP Letters</i> , 1	1.2
11	The use of optical chopper increases the efficiency of femtosecond laser-induced cell fusion. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1695, 012048	0.3
10	Femtosecond excited state dynamics of stilbene-viologen complexes with a weakly pronounced charge transfer. <i>Photochemical and Photobiological Sciences</i> , <b>2020</b> , 19, 1189-1200	4.2
9	Mn <sup>2+</sup> -doped ZnS/CdS alloy nanocrystals for the photocatalytic hydrogen evolution reaction. <i>Mendeleev Communications</i> , <b>2021</b> , 31, 315-318	1.9
8	Impact of tightly focused femtosecond laser pulses on nucleolus-like bodies of mouse GV oocyte and the ability of mouse oocytes to mature. <i>Doklady Biochemistry and Biophysics</i> , <b>2016</b> , 467, 136-40	0.8
7	Ultrafast excited state dynamics, direct and back [2 + 2]-cross-photocycloaddition of a styryl dye-stilbene charge transfer complex. <i>Dyes and Pigments</i> , <b>2021</b> , 185, 108952	4.6
6	Coherent Acoustic Phonon Activation by Fast Electron Transfer in the Exciton Redox-Quenching Reaction with Methyl Viologen in Cadmium Selenide. <i>High Energy Chemistry</i> , <b>2018</b> , 52, 508-509	0.9
5	Redox Exciton Quenching in Cadmium Selenide Quantum Dots by Methyl Viologen: Quantum Yield of Charge Separation. <i>High Energy Chemistry</i> , <b>2018</b> , 52, 492-497	0.9
4	Intramolecular photo-driven charge transfer in a series of pyridyl substituted phenyloxazoles. Structural relaxation in meta-substituted ethylpyridinium derivative of phenyloxazole. <i>Photochemical and Photobiological Sciences</i> , <b>2021</b> , 20, 1419-1428	4.2
3	Chemical characterization of extracellular vesicles of mesenchymal stromal cells: TOF-SIMS and BCARS approach. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 2086, 012107	0.3
2	Mass spectrometry analysis of C-dots produced by femtosecond laser irradiation of L-lysine film.. <i>Journal of Physics: Conference Series</i> , <b>2021</b> , 2086, 012157	0.3

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