Victor A Nadtochenko

List of Publications by Year in Descending Order

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	Aerosol Dry Printing for SERS and Photoluminescence-Active Gold Nanostructures Preparation for Detection of Traces in Dye Mixtures.. *Nanomaterials*, **2022**, 12,	5.4	4
179	Femtosecond laser oocyte enucleation as a low-invasive and effective method of recipient cytoplast preparation.. *Biomedical Optics Express*, **2022**, 13, 1447-1456	3.5	0
178	Nitrogen-Doped Carbon Nanodots Produced by Femtosecond Laser Synthesis for Effective Fluorophores.. *ACS Omega*, **2022**, 7, 6810-6823	3.9	2
177	Structural and Optical Properties of Mn2+-Doped ZnCdS/ZnS Core/Shell Quantum Dots: New Insights in Mn2+ Localization for Higher Luminescence Sensing. *Journal of Photochemistry and Photobiology A: Chemistry*, **2022**, 113946	4.7	0
176	Ultrafast Quenching of Excitons in the ZnCdS/ZnS Quantum Dots Doped with Mn through Charge Transfer Intermediates Results in Manganese Luminescence. *Nanomaterials*, **2021**, 11,	5.4	4
175	Femtochemistry of Rhodopsins. *Russian Journal of Physical Chemistry B*, **2021**, 15, 344-351	1.2	0
174	Unprecedented Coordination-Induced Bright Red Emission from Group 12 Metal-Bound Triarylazoimidazoles. *Molecules*, **2021**, 26,	4.8	5
173	Femtosecond laser synthesis of nitrogen-doped luminescent carbon dots from acetonitrile. *Dyes and Pigments*, **2021**, 188, 109176	4.6	12
172	Primary charge separation within the structurally symmetric tetrameric ChlPPChl chlorophyll exciplex in photosystem I. *Journal of Photochemistry and Photobiology B: Biology*, **2021**, 217, 112154	6.7	8
171	Mn2+-doped ZnS□dS alloy nanocrystals for the photocatalytic hydrogen evolution reaction. *Mendeleev Communications*, **2021**, 31, 315-318	1.9	
170	Mn2+-doped ZnS□dS alloy nanocrystals for the photocatalytic hydrogen evolution reaction. *Mendeleev Communications*, **2021**, 31, 315-318	1.9	2
169	Role of hydrogen bond alternation and charge transfer states in photoactivation of the Orange Carotenoid Protein. *Communications Biology*, **2021**, 4, 539	6.7	6
168	Ultrafast excited state dynamics, direct and back [2 + 2]-cross-photocycloaddition of a styryl dye□tilbene charge transfer complex. *Dyes and Pigments*, **2021**, 185, 108952	4.6	
167	Carbazole-functionalized cobalt(II) porphyrin axially bonded with C60/C70 derivatives: synthesis and characterization. *New Journal of Chemistry*, **2021**, 45, 9053-9065	3.6	3
166	Comparative Femtosecond Spectroscopy of Primary Photoreactions of Rhodopsin and Bacteriorhodopsin. *Journal of Physical Chemistry B*, **2021**, 125, 995-1008	3.4	2
165	Intramolecular photo-driven charge transfer in a series of pyridyl substituted phenyloxazoles. Structural relaxation in meta-substituted ethylpyridinium derivative of phenyloxazole. *Photochemical and Photobiological Sciences*, **2021**, 20, 1419-1428	4.2	
164	Symmetry breaking in photosystem I: ultrafast optical studies of variants near the accessory chlorophylls in the A- and B-branches of electron transfer cofactors. *Photochemical and Photobiological Sciences*, **2021**, 20, 1209-1227	4.2	0

163	Photo-induced environmental remediation, biomedical imaging, and microbial inactivation by Mn-doped semiconductors: critical issues. *Current Opinion in Chemical Engineering*, **2021**, 34, 100731	5.4	1
162	The donor-acceptor dyad based on high substituted fullero[70]pyrrolidine-coordinated manganese (III) phthalocyanine for photoinduced electron transfer. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2021**, 263, 120166	4.4	1
161	Chemical characterization of extracellular vesicles of mesenchymal stromal cells: TOF-SIMS and BCARS approach. *Journal of Physics: Conference Series*, **2021**, 2086, 012107	0.3	
160	Mass spectrometry analysis of C-dots produced by femtosecond laser irradiation of L-lysine film.. *Journal of Physics: Conference Series*, **2021**, 2086, 012157	0.3	
159	Femtosecond laser synthesis and comparative analysis of fluorescent carbon dots from L-lysine aqueous solution. *Journal of Physics: Conference Series*, **2021**, 2086, 012121	0.3	
158	The binding energy of biexcitons in alloy ZnxCd1−xS quantum dots detected by femtosecond laser spectroscopy. *Applied Physics A: Materials Science and Processing*, **2020**, 126, 1	2.6	2
157	Generation of ion-radical chlorophyll states in the light-harvesting antenna and the reaction center of cyanobacterial photosystem I. *Photosynthesis Research*, **2020**, 146, 55-73	3.7	7
156	Sample Preparation of Biological Tissues and Cells for the Time-of-Flight Secondary Ion Mass Spectrometry. *Journal of Analytical Chemistry*, **2020**, 75, 701-710	1.1	
155	Femtosecond laser-induced blastomere fusion results in embryo tetraploidy by common metaphase plate formation. *Experimental Cell Research*, **2020**, 389, 111887	4.2	3
154	Effects of a Central Atom and Peripheral Substituents on Photoinduced Electron Transfer in the Phthalocyanine–Fullerene Donor–Acceptor Solution-Processable Dyads. *Journal of Physical Chemistry C*, **2020**, 124, 4010-4023	3.8	16
153	Quantum-classical model of the rhodopsin retinal chromophore cis–trans photoisomerization with modified inter-subsystem coupling. *Computational and Theoretical Chemistry*, **2020**, 1181, 112831	2	0
152	Evidence that chlorophyll f functions solely as an antenna pigment in far-red-light photosystem I from Fischerella thermalis PCC 7521. *Biochimica Et Biophysica Acta - Bioenergetics*, **2020**, 1861, 148184	4.6	12
151	Visible and Near Infrared Absorption Spectrum of the Excited Singlet State of Chlorophyll a. *High Energy Chemistry*, **2020**, 54, 145-147	0.9	5
150	Multimodal approach to reveal the effect of light irradiation on chemical composition of lipofuscin granules of human RPE tissues. *Journal of Physics: Conference Series*, **2020**, 1695, 012063	0.3	1
149	The use of optical chopper increases the efficiency of femtosecond laser-induced cell fusion. *Journal of Physics: Conference Series*, **2020**, 1695, 012048	0.3	
148	Probing Intracellular Dynamics Using Fluorescent Carbon Dots Produced by Femtosecond Laser. *ACS Omega*, **2020**, 5, 12527-12538	3.9	6
147	A novel approach for 3D reconstruction of mice full-grown oocytes by time-of-flight secondary ion mass spectrometry. *Analytical and Bioanalytical Chemistry*, **2020**, 412, 311-319	4.4	4
146	New Evidence for Ag-Sputtered Materials Inactivating Bacteria by Surface Contact without the Release of Ag Ions: End of a Long Controversy?. *ACS Applied Materials & Interfaces*, **2020**, 12, 4998-5007	8.5	2

145	Intramolecular photo-driven electron transfer in the series of DMABN related compounds with para-substituted acceptors. Study of the rate constants by Marcus theory. *Journal of Physical Organic Chemistry*, **2020**, 33, e4041	2.1	1
144	PSI-SMALP, a Detergent-free Cyanobacterial Photosystem I, Reveals Faster Femtosecond Photochemistry. *Biophysical Journal*, **2020**, 118, 337-351	2.9	16
143	Relaxation Dynamics of Excited States in Mn2+-Doped ZnCdS (Core)/ZnS (Shell) Quantum Dots Ions in Propylene Carbonate. *High Energy Chemistry*, **2020**, 54, 421-426	0.9	1
142	Methodology for Determining the Dynamics of Development of Single Cavitation Bubbles in Aqueous Medium upon Optical Breakdown. *High Energy Chemistry*, **2020**, 54, 294-295	0.9	1
141	Femtosecond excited state dynamics of stilbene-viologen complexes with a weakly pronounced charge transfer. *Photochemical and Photobiological Sciences*, **2020**, 19, 1189-1200	4.2	
140	Multiexponential dynamics of Mn2+(3d5) excitation in manganese doped ZnCdS quantum dots: Stimulated emission band in femtosecond transient spectra reveals ultrafast nonradiative energy transfer to Mn2+(3d5). *Chemical Physics Letters*, **2020**, 743, 137160	2.5	6
139	Formation of a supramolecular charge-transfer complex. Ultrafast excited state dynamics and quantum-chemical calculations. *Photochemical and Photobiological Sciences*, **2019**, 18, 232-241	4.2	9
138	Physicochemical Mechanisms of Nanostructuring of Glass by Femtosecond Laser Pulses with the Use of Selective Etching. *JETP Letters*, **2019**, 109, 292-297	1.2	1
137	ToF-SIMS depth profiling of nanoparticles: Chemical structure of core-shell quantum dots. *Applied Surface Science*, **2019**, 481, 144-150	6.7	9
136	Femtosecond Spectroscopy of Au Hot-Electron Injection into TiO Evidence for Au/TiO Plasmon Photocatalysis by Bactericidal Au Ions and Related Phenomena. *Nanomaterials*, **2019**, 9,	5.4	20
135	Anisotropy of Differential Spectra of Gold Nanoparticle Absorption in a TiO2 Matrix: Electron Injection into the TiO2 Conduction Band. *Russian Journal of Physical Chemistry B*, **2019**, 13, 539-542	1.2	2
134	Femtosecond Laser Synthesis of Luminescent Carbon Dots from Toluene. *JETP Letters*, **2019**, 110, 464-471	1.2	6
133	Monitoring the energy of the metal ion-content plasma-assisted deposition and its implication for bacterial inactivation. *Applied Surface Science*, **2019**, 467-468, 749-752	6.7	2
132	Ultrafast excited state dynamics of a stilbene iologen charge transfer complex and its interaction with alkanediammonium salts. *Journal of Photochemistry and Photobiology A: Chemistry*, **2019**, 372, 89-98	4.7	11
131	Complexation of bis-crown stilbene with alkali and alkaline-earth metal cations. Ultrafast excited state dynamics of the stilbene-viologen analogue charge transfer complex. *Journal of Physical Organic Chemistry*, **2018**, 31, e3759	2.1	5
130	Comparisons of Electron Transfer Reactions in a Cyanobacterial Tetrameric and Trimeric Photosystem I Complexes. *Photochemistry and Photobiology*, **2018**, 94, 564-569	3.6	2
129	Relaxation Kinetics of Excitonic States in ZnSe Quantum Dots: A Femtosecond Laser Spectroscopy Study. *High Energy Chemistry*, **2018**, 52, 283-288	0.9	1
128	The Use of ToF-SIMS for Analysis of Bioorganic Samples. *Biophysics (Russian Federation)*, **2018**, 63, 215-221	0.7	3

127	Synthesis of Silver Nanoparticles with the use of Herbaceous Plant Extracts and Effect of Nanoparticles on Bacteria. *Applied Biochemistry and Microbiology*, **2018**, 54, 816-823	1.1	3
126	Coherent Acoustic Phonon Activation by Fast Electron Transfer in the Exciton Redox-Quenching Reaction with Methyl Viologen in Cadmium Selenide. *High Energy Chemistry*, **2018**, 52, 508-509	0.9	
125	Redox Exciton Quenching in Cadmium Selenide Quantum Dots by Methyl Viologen: Quantum Yield of Charge Separation. *High Energy Chemistry*, **2018**, 52, 492-497	0.9	
124	Monitoring the electric field in CdSe quantum dots under ultrafast interfacial electron transfer via coherent phonon dynamics. *Nanoscale*, **2018**, 10, 22409-22419	7.7	7
123	Comparative activity of aqueous dispersions of CdS nanocrystals stabilized by cationic and anionic polyelectrolytes in photocatalytic hydrogen production from water. *Russian Chemical Bulletin*, **2018**, 67, 1803-1806	1.7	1
122	Insight into the catalyst/photocatalyst microstructure presenting the same composition but leading to a variance in bacterial reduction under indoor visible light. *Applied Catalysis B: Environmental*, **2017**, 208, 135-147	21.8	18
121	Dynamics of excited-state intramolecular proton-transfer in 2-amino-3-(2Rbenzazolyl)quinoline cations. *Photochemical and Photobiological Sciences*, **2017**, 16, 1139-1145	4.2	5
120	Femtosecond and Picosecond Dynamics of Recombinant Bacteriorhodopsin Primary Reactions Compared to the Native Protein in Trimeric and Monomeric Forms. *Biochemistry (Moscow)*, **2017**, 82, 490-500	2.9	5
119	Femtosecond excited state dynamics of a stilbene-viologen charge transfer complex assembled via host-guest interaction. *Photochemical and Photobiological Sciences*, **2017**, 16, 1801-1811	4.2	5
118	Excitation of photosystem I by 760 nm femtosecond laser pulses: transient absorption spectra and intermediates. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2017**, 50, 174001	1.3	6
117	Evidence for differentiated ionic and surface contact effects driving bacterial inactivation by way of genetically modified bacteria. *Chemical Communications*, **2017**, 53, 9093-9096	5.8	11
116	Tuning photochemical properties of phosphorus(v) porphyrin photosensitizers. *Chemical Communications*, **2017**, 53, 9918-9921	5.8	21
115	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. *Biochimica Et Biophysica Acta - Bioenergetics*, **2017**, 1858, 895-905	4.6	26
114	First unambiguous evidence for distinct ionic and surface-contact effects during photocatalytic bacterial inactivation on Cu□Ag films: Kinetics, mechanism and energetics. *Materials Today Chemistry*, **2017**, 6, 62-74	6.2	17
113	Applicability of TOF-SIMS for the assessment of lipid composition of cell membrane structures. *Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology*, **2017**, 11, 144-150	0.7	
112	Effect of Dehydrated Trehalose Matrix on the Kinetics of Forward Electron Transfer Reactions in Photosystem I. *Zeitschrift Fur Physikalische Chemie*, **2017**, 231, 325-345	3.1	8
111	Structural Features of the Nucleolus in the Mouse Germinal Vesicle Oocyte Revealed by AFM, SEM, and ToF-SIMS. *Nanotechnologies in Russia*, **2017**, 12, 444-447	0.6	3
110	Photocatalytic activity of CdS nanocrystals stabilized by a polymer shell and promoted by cobalt and nickel complexes in the reaction of hydrogen evolution. *Russian Chemical Bulletin*, **2017**, 66, 2048-2056	1.7	2

109	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. *Nanomaterials*, **2017**, 7,	5.4	16
108	Femtosecond laser surgery of two-cell mouse embryos: effect on viability, development, and tetraploidization. *Journal of Biomedical Optics*, **2017**, 22, 1-9	3.5	5
107	Innovative self-sterilizing transparent Fe□hosphate polyethylene films under visible light. *RSC Advances*, **2016**, 6, 77066-77074	3.7	2
106	Effect of femtosecond laser radiation on mammalian oocytes. *Russian Journal of Physical Chemistry B*, **2016**, 10, 816-819	1.2	1
105	FeOx-TiO2 Film with Different Microstructures Leading to Femtosecond Transients with Different Properties: Biological Implications under Visible Light. *Scientific Reports*, **2016**, 6, 30113	4.9	13
104	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. *Nanotechnologies in Russia*, **2016**, 11, 361-363	0.6	5
103	Formation of light-absorbing centers induced in cytoplasm of mouse embryos by femtosecond pulsed near-infrared radiation. *High Energy Chemistry*, **2016**, 50, 421-423	0.9	3
102	Antibacterial activity of monolayer nanoparticulate AgN-(titanium-oxo-alkoxy) coatings. *Mechanics and Industry*, **2016**, 17, 504	0.8	1
101	Complexation of Donor-Acceptor Substituted Aza-Crowns with Alkali and Alkaline Earth Metal Cations. Charge Transfer and Recoordination in Excited State. *Journal of Fluorescence*, **2016**, 26, 585-92	2.4	9
100	Production of gold nanoparticles by biogenesis using bacteria. *Microbiology*, **2016**, 85, 63-70	1.4	6
99	Quantum-classical model of retinal photoisomerization reaction in visual pigment rhodopsin. *Doklady Biochemistry and Biophysics*, **2016**, 471, 435-439	0.8	2
98	Impact of tightly focused femtosecond laser pulses on nucleolus-like bodies of mouse GV oocyte and the ability of mouse oocytes to mature. *Doklady Biochemistry and Biophysics*, **2016**, 467, 136-40	0.8	
97	Excitonic Coupling and Femtosecond Relaxation of Zinc Porphyrin Oligomers Linked with Triazole Bridge: Dynamics and Modeling. *Journal of Physical Chemistry A*, **2016**, 120, 1961-70	2.8	4
96	Correlating microscopy techniques and ToF-SIMS analysis of fully grown mammalian oocytes. *Analyst, The*, **2016**, 141, 4121-9	5	20
95	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. *Analytical and Bioanalytical Chemistry*, **2016**, 408, 7521-8	4.4	4
94	Femtosecond spectroscopic study of photochromic reactions of bacteriorhodopsin and visual rhodopsin. *Journal of Photochemistry and Photobiology B: Biology*, **2016**, 164, 296-305	6.7	5
93	Electron transfer in photosystem I containing native and modified quinone acceptors. *Biochemistry (Moscow)*, **2015**, 80, 654-61	2.9	1
92	Effect of laser optoperforation of the zona pellucida on mouse embryo development in vitro. *Biochemistry (Moscow)*, **2015**, 80, 769-75	2.9	2

91	Primary electron transfer processes in photosynthetic reaction centers from oxygenic organisms. *Photosynthesis Research*, **2015**, 125, 51-63	3.7	80
90	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. *High Energy Chemistry*, **2015**, 49, 336-340	0.9	0
89	Fusion of blastomeres in mouse embryos under the action of femtosecond laser radiation. Efficiency of blastocyst formation and embryo development. *Quantum Electronics*, **2015**, 45, 498-502	1.8	10
88	Visualization of the spatial distribution of Pt+ ions in cisplatin-treated glioblastoma cells by time-of-flight secondary ion mass spectrometry. *Biochemistry (Moscow) Supplement Series A: Membrane and Cell Biology*, **2015**, 9, 202-209	0.7	11
87	Stepwise versus concerted mechanism of photoinduced proton transfer in sec-1,2-dihydroquinolines: effect of excitation wavelength and solvent composition. *Journal of Physical Chemistry B*, **2015**, 119, 2490-7	3.4	2
86	ATP-Mediated Compositional Change in Peripheral Myelin Membranes: A Comparative Raman Spectroscopy and Time-Of-Flight Secondary Ion Mass Spectrometry Study. *PLoS ONE*, **2015**, 10, e0142084	3.7	8
85	Femtosecond Optical Trap-Assisted Nanopatterning through Microspheres by a Single Ti:Sapphire Oscillator. *Journal of Physical Chemistry C*, **2015**, 119, 12562-12571	3.8	7
84	Preparation and Mechanism of Cu-Decorated TiO2-ZrO2 Films Showing Accelerated Bacterial Inactivation. *ACS Applied Materials & Interfaces*, **2015**, 7, 12832-9	9.5	59
83	Stimulation of HaCaT keratinocyte and rat mesenchymal stromal cell proliferation by femtosecond laser pulses. *Cell and Tissue Biology*, **2015**, 9, 441-446	0.4	
82	Formation and decay of P680 (P(D1)-P(D2))+PheoD1? radical ion pair in photosystem II core complexes. *Biochimica Et Biophysica Acta - Bioenergetics*, **2014**, 1837, 1384-8	4.6	9
81	Primary radical ion pairs in photosystem II core complexes. *Biochemistry (Moscow)*, **2014**, 79, 197-204	2.9	1
80	Femtopicosecond relaxation of zinc porphyrinate trimer linked by the triazole bridge. *Russian Chemical Bulletin*, **2014**, 63, 76-81	1.7	
79	Femto-picosecond relaxation of triazole-bridged bis(zinc porphyrin). *High Energy Chemistry*, **2014**, 48, 276-281	0.9	2
78	Secondary ion mass spectrometric signal enhancement of phosphatidylcholine dioleoyl on enlarged nanoparticles surface. *Applied Surface Science*, **2014**, 316, 36-41	6.7	8
77	Femtosecond spectroscopy and TD-DFT calculations of CuCl4(2-) excited states. *Dalton Transactions*, **2014**, 43, 17820-7	4.3	10
76	Femtosecond laser spectroscopy of the rhodopsin photochromic reaction: a concept for ultrafast optical molecular switch creation (ultrafast reversible photoreaction of rhodopsin). *Molecules*, **2014** , 19, 18351-66	4.8	8
75	Spherical gold nanoparticles and SiO2/Au core/shell microparticles under intense femtosecond laser excitation: relaxation dynamics of gold nanoparticles and nanostructuring of borosilicate glass using SiO2/Au microparticles. *Quantum Electronics*, **2014**, 44, 852-858	1.8	2
74	Femtosecond dynamics of primary processes in visual pigment rhodopsin. *Russian Journal of Physical Chemistry B*, **2014**, 8, 510-517	1.2	1

73	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 Synechocystis sp. PCC 6803. *Biochimica Et Biophysica Acta - Bioenergetics*, **2014**, 1837, 1362-75	4.6	27
72	Microstructuring of polymer films by femtosecond pulses through optically trapped polystyrene microspheres. *Quantum Electronics*, **2013**, 43, 361-364	1.8	2
71	Obtainment of chimeric blastocysts of mice by methods of laser nanosurgery. *Russian Journal of Developmental Biology*, **2013**, 44, 302-306	0.8	2
70	Optical trapping of microparticles from a stream in vacuum. *Nanotechnologies in Russia*, **2013**, 8, 664-671	0.6	1
69	Molecular magnetic structures based on high-spin intermediates of low-temperature radiolysis of azido derivatives and possibilities of their use in undulator systems. *Russian Chemical Bulletin*, **2013**, 62, 255-264	1.7	5
68	Spectral and kinetic parameters of transient species in the photolysis of naphthylmethylideneiminospironaphthopyran by excitation at different wavelengths: Nano- and femtosecond laser photolysis. *High Energy Chemistry*, **2013**, 47, 120-126	0.9	1
67	Femtosecond dynamics of excited-state intramolecular proton transfer in o-tosylaminobenzoic and o-acetylaminobenzoic acids. *High Energy Chemistry*, **2013**, 47, 315-321	0.9	
66	Antibacterial effects of silver nanoparticles on gram-negative bacteria: influence on the growth and biofilms formation, mechanisms of action. *Colloids and Surfaces B: Biointerfaces*, **2013**, 102, 300-6	6	292
65	Spectral properties of the surface plasmon resonance and electron injection from gold nanoparticles to TiO2 mesoporous film: femtosecond study. *Photochemical and Photobiological Sciences*, **2013**, 12, 631-7	4.2	19
64	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. *Russian Journal of Physical Chemistry B*, **2012**, 6, 362-367	1.2	1
63	Conical intersection participation in femtosecond dynamics of visual pigment rhodopsin chromophore cis-trans photoisomerization. *Doklady Biochemistry and Biophysics*, **2012**, 446, 242-6	0.8	7
62	Primary steps of electron and energy transfer in photosystem I: effect of excitation pulse wavelength. *Biochemistry (Moscow)*, **2012**, 77, 1011-20	2.9	6
61	Femtosecond dynamics of excited-state intramolecular proton transfer in o-tosylaminobenzaldehyde. *High Energy Chemistry*, **2012**, 46, 247-252	0.9	3
60	Photochemical properties of photosystem 1 immobilized in a mesoporous semiconductor matrix. *High Energy Chemistry*, **2012**, 46, 200-205	0.9	11
59	Tunneling proton transfer in biological systems. Role of temperature and pressure. *Russian Journal of Physical Chemistry A*, **2012**, 86, 1399-1406	0.7	1
58	Femtosecond pulse excitation of vibrational wave packets in chloroform: The effect of gold nanoparticles. *High Energy Chemistry*, **2011**, 45, 250-257	0.9	3
57	Relaxation of photoexcited gold nanoparticles in an aqueous colloid and mesoporous TiO2 films: Influence of the interface. *High Energy Chemistry*, **2011**, 45, 428-433	0.9	3
56	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. *Russian Chemical Bulletin*, **2011**, 60, 1401-1408	1.7	2

55	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. *Russian Chemical Bulletin*, **2011**, 60, 1118-1127	0.7	2
54	Femtosecond optoperforation of the cell wall of cyanobacterium Anabaena sp. PCC 7120 in the presence of gold nanoparticles. *Nanotechnologies in Russia*, **2011**, 6, 668-675	0.6	3
53	Effect of acetic acid on the adhesion-capillary interaction of an atomic force microscope probe with immunoglobulin G. *Russian Journal of Physical Chemistry A*, **2011**, 85, 2197-2202	0.7	0
52	P680 (P(D1)P(D2)) and Chl(D1) as alternative electron donors in photosystem II core complexes and isolated reaction centers. *Journal of Photochemistry and Photobiology B: Biology*, **2011**, 104, 44-50	6.7	41
51	Femtosecond formation dynamics of primary photoproducts of visual pigment rhodopsin. *Biochemistry (Moscow)*, **2010**, 75, 25-35	2.9	15
50	Fourier transform infrared spectroscopic study of the photocatalytic degradation of cancerous cells on titanium dioxide. *High Energy Chemistry*, **2010**, 44, 426-430	0.9	5
49	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. *High Energy Chemistry*, **2010**, 44, 530-533	0.9	1
48	Photothermolysis of tumor with gold nanoparticles guided by NIR and acoustic thermometries **2010**,		1
47	Plasmon resonance gold nanoparticles for improving optical diagnostics and photothermal therapy of tumor **2010**,		1
46	Photochromism of visual pigment rhodopsin on the femtosecond time scale: coherent control of retinal chromophore isomerization. *Doklady Biochemistry and Biophysics*, **2010**, 435, 302-6	0.8	7
45	Antimicrobial effect of metallic and semiconductor nanoparticles. *Nanotechnologies in Russia*, **2010**, 5, 277-289	0.6	21
44	Investigation of biodistribution of gold nanoparticles in healthy animals. *Nanotechnologies in Russia* , **2010**, 5, 409-416	0.6	1
43	Femtosecond primary charge separation in Synechocystis sp. PCC 6803 photosystem I. *Biochimica Et Biophysica Acta - Bioenergetics*, **2010**, 1797, 1410-20	4.6	79
42	OCT-guided laser hyperthermia with passively tumor-targeted gold nanoparticles. *Journal of Biophotonics*, **2010**, 3, 718-27	3.1	14
41	Enhanced luminescence and two-photon absorption of silver nano-clusters. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2009**, 6, S162-S166		3
40	Nanophotobiocatalysts based on mesoporous titanium dioxide films conjugated with enzymes and photosynthetic reaction centers of bacteria. *High Energy Chemistry*, **2008**, 42, 591-593	0.9	7
39	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. *Photosynthesis Research*, **2008**, 98, 95-103	3.7	36
38	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. *Russian Chemical Bulletin*, **2008**, 57, 1451-1460	1.7	5

37	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). *Russian Chemical Bulletin*, **2008**, 57, 2592-2599	1.7	3
36	Coherent processes in formation of primary products of rhodopsin photolysis. *Doklady Biochemistry and Biophysics*, **2008**, 421, 194-8	0.8	5
35	Single-molecule force spectroscopy of a protein globule covalently bound to a calcite surface. *Russian Journal of Physical Chemistry B*, **2008**, 2, 350-353	1.2	1
34	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. *Nanotechnologies in Russia*, **2008**, 3, 507-509	0.6	
33	Effect of solvation on the reaction rate constants of the diphenylaminyl radical with phenols and hydroquinones. *Russian Chemical Bulletin*, **2007**, 56, 91-96	1.7	
32	Specific spectral properties of a photochromic ferromagnetic (C25H23N3O3Cl)CrMn(C2O4)3·H2O. *Russian Chemical Bulletin*, **2007**, 56, 1095-1102	1.7	6
31	Long-lived coherent oscillations of the femtosecond transients in cyanobacterial photosystem I. *Physical Chemistry Chemical Physics*, **2006**, 8, 5671-8	3.6	8
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Live cell bioimaging with carbon dots produced in situ by femtosecond laser from intracellular material