

Sergey Gudkov

List of Publications by Citations

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Version: 2024-04-10

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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.

152 papers	1,989 citations	26 h-index	36 g-index
171 ext. papers	2,806 ext. citations	3 avg, IF	5.5 L-index

#	Paper	IF	Citations
152	Peculiarities of the antioxidant and radioprotective effects of hydrated C60 fullerene nanostuctures in vitro and in vivo. <i>Free Radical Biology and Medicine</i> , 2009 , 47, 786-93	7.8	132
151	Targeted Radionuclide Therapy of Human Tumors. <i>International Journal of Molecular Sciences</i> , 2015 , 17,	6.3	82
150	Guanosine and inosine display antioxidant activity, protect DNA in vitro from oxidative damage induced by reactive oxygen species, and serve as radioprotectors in mice. <i>Radiation Research</i> , 2006 , 165, 538-45	3.1	78
149	A Mini Review of Antibacterial Properties of ZnO Nanoparticles. <i>Frontiers in Physics</i> , 2021 , 9,	3.9	59
148	Formation and Dynamics of Ion-Stabilized Gas Nanobubble Phase in the Bulk of Aqueous NaCl Solutions. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 1291-303	3.4	56
147	Effect of ionizing radiation on physiological and molecular processes in plants. <i>Journal of Environmental Radioactivity</i> , 2019 , 202, 8-24	2.4	53
146	Radioactive (Y) upconversion nanoparticles conjugated with recombinant targeted toxin for synergistic nanotheranostics of cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 9690-9695	11.5	46
145	Production and Use of Selenium Nanoparticles as Fertilizers. <i>ACS Omega</i> , 2020 , 5, 17767-17774	3.9	45
144	Prolongation of oxidative stress by long-lived reactive protein species induced by X-ray radiation and their genotoxic action. <i>Free Radical Research</i> , 2012 , 46, 1280-90	4	45
143	Oxygen-dependent auto-oscillations of water luminescence triggered by the 1264 nm radiation. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 7693-8	3.4	43
142	Unmodified hydrated [Fullerene molecules exhibit antioxidant properties, prevent damage to DNA and proteins induced by reactive oxygen species and protect mice against injuries caused by radiation-induced oxidative stress. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019 , 15, 37-46	6	43
141	Chemical and radiological toxicity of uranium compounds. <i>Russian Journal of General Chemistry</i> , 2016 , 86, 1531-1538	0.7	40
140	The Effect of Gold Nanoparticle Concentration and Laser Fluence on the Laser-Induced Water Decomposition. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 1869-1880	3.4	39
139	Pro-oxidative, genotoxic and cytotoxic properties of uranyl ions. <i>Journal of Environmental Radioactivity</i> , 2014 , 127, 163-70	2.4	37
138	Protective and adaptogenic role of peroxiredoxin 2 (Prx2) in neutralization of oxidative stress induced by ionizing radiation. <i>Free Radical Biology and Medicine</i> , 2019 , 134, 76-86	7.8	34
137	Effect of visible light on biological objects: Physiological and pathophysiological aspects. <i>Physics of Wave Phenomena</i> , 2017 , 25, 207-213	1.2	33
136	Biocompatibility of new materials based on nano-structured nitinol with titanium and tantalum composite surface layers: experimental analysis in vitro and in vivo. <i>Journal of Materials Science: Materials in Medicine</i> , 2018 , 29, 33	4.5	31

135	Protection of mice against X-ray injuries by the post-irradiation administration of guanosine and inosine. <i>International Journal of Radiation Biology</i> , 2009 , 85, 116-25	2.9	30
134	Do Iron Oxide Nanoparticles Have Significant Antibacterial Properties?. <i>Antibiotics</i> , 2021 , 10,	4.9	30
133	The role of peroxiredoxin 6 in neutralization of X-ray mediated oxidative stress: effects on gene expression, preservation of radiosensitive tissues and postradiation survival of animals. <i>Free Radical Research</i> , 2017 , 51, 148-166	4	28
132	Long-lived protein radicals induced by X-ray irradiation are the source of reactive oxygen species in aqueous medium. <i>Doklady Biochemistry and Biophysics</i> , 2010 , 430, 1-4	0.8	28
131	Guanosine and inosine (riboxin) eliminate the long-lived protein radicals induced X-ray radiation. <i>Doklady Biochemistry and Biophysics</i> , 2007 , 413, 50-3	0.8	28
130	Formation of long-lived reactive species of blood serum proteins induced by low-intensity irradiation of helium-neon laser and their involvement in the generation of reactive oxygen species. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017 , 176, 36-43	6.7	27
129	Radioprotective Role of Peroxiredoxin 6. <i>Antioxidants</i> , 2019 , 8,	7.1	27
128	Influence of Mechanical Effects on the Hydrogen Peroxide Concentration in Aqueous Solutions. <i>Physics of Wave Phenomena</i> , 2019 , 27, 141-144	1.2	26
127	Shaking-Induced Aggregation and Flotation in Immunoglobulin Dispersions: Differences between Water and Water-Ethanol Mixtures. <i>ACS Omega</i> , 2020 , 5, 14689-14701	3.9	26
126	Effect of Mechanical Shaking on the Physicochemical Properties of Aqueous Solutions. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	25
125	Effect of amino acids on X-ray-induced hydrogen peroxide and hydroxyl radical formation in water and 8-oxoguanine in DNA. <i>Biochemistry (Moscow)</i> , 2008 , 73, 470-8	2.9	25
124	Generation of reactive oxygen species in water under exposure to visible or infrared irradiation at absorption bands of molecular oxygen. <i>Biophysics (Russian Federation)</i> , 2012 , 57, 1-8	0.7	20
123	Formation of long-lived reactive species of blood serum proteins by the action of heat. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 443, 957-61	3.4	19
122	Mechanical, physical-chemical and biological properties of the new Ti ₆₀ Nb ₃₅ Ta ₅ Zr alloy. <i>Journal of Materials Science</i> , 2020 , 55, 14516-14529	4.3	19
121	Radioprotective substances: History, trends and prospects. <i>Biophysics (Russian Federation)</i> , 2015 , 60, 659-667	0.7	17
120	Dynamics of Nafion membrane swelling in HO ₂ /DO mixtures as studied using FTIR technique. <i>Journal of Chemical Physics</i> , 2018 , 148, 124901	3.9	17
119	Study of the physicochemical and biological properties of the new promising Ti ₆₀ Nb ₃₅ Ta ₅ Zr alloy for biomedical applications. <i>Materials Chemistry and Physics</i> , 2020 , 255, 123557	4.4	17
118	Biodegradable stent coatings on the basis of PLGA polymers of different molecular mass, sustaining a steady release of the thrombolytic enzyme streptokinase. <i>Reactive and Functional Polymers</i> , 2020 , 150, 104550	4.6	17

117	Near-surface structure of Nafion in deuterated water. <i>Journal of Chemical Physics</i> , 2018 , 149, 164901	3.9	17
116	Antioxidative and radiation modulating properties of guanosine-5'-monophosphate. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2010 , 29, 786-99	1.4	16
115	Kinetics of the release of antibiotics from chitosan-based biodegradable biopolymer membranes. <i>Doklady Chemistry</i> , 2015 , 465, 278-280	0.8	15
114	Influence of a Constant Magnetic Field on Some Properties of Water Solutions. <i>Doklady Physics</i> , 2020 , 65, 273-275	0.8	14
113	Mechanisms of the Cytotoxic Effect of Selenium Nanoparticles in Different Human Cancer Cell Lines. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	14
112	Influence of wideband visible light with an padding red component on the functional state of mice embryos and embryonic stem cells. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018 , 188, 77-86	6.7	14
111	Biocompatibility of nanostructured nitinol with titanium or tantalum surface composite layers formed by magnetron sputtering. <i>Doklady Chemistry</i> , 2015 , 461, 86-88	0.8	13
110	Exogenous 8-Oxo-7,8-dihydro-2'-deoxyguanosine: Biomedical Properties, Mechanisms of Action, and Therapeutic Potential. <i>Biochemistry (Moscow)</i> , 2017 , 82, 1686-1701	2.9	13
109	Self-oscillating Water Chemiluminescence Modes and Reactive Oxygen Species Generation Induced by Laser Irradiation; Effect of the Exclusion Zone Created by Nafion. <i>Entropy</i> , 2014 , 16, 6166-6185	2.8	13
108	Genotoxic effect of long-lived protein radicals in vivo generated by X-ray irradiation. <i>Doklady Biochemistry and Biophysics</i> , 2010 , 434, 250-3	0.8	13
107	Itaconic acid impairs the mitochondrial function by the inhibition of complexes II and IV and induction of the permeability transition pore opening in rat liver mitochondria. <i>Biochimie</i> , 2020 , 176, 150-157	4.6	13
106	Development of a Biocompatible and Biodegradable Polymer Capable of Long-Term Release of Biologically Active Substances for Medicine and Agriculture. <i>Doklady Chemistry</i> , 2019 , 489, 261-263	0.8	13
105	Oxygen effect in heat-induced DNA damage. <i>Biophysics (Russian Federation)</i> , 2007 , 52, 185-190	0.7	12
104	Photoconversion Fluoropolymer Films for the Cultivation of Agricultural Plants Under Conditions of Insufficient Insolation. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8025	2.6	12
103	New Nanostructured Carbon Coating Inhibits Bacterial Growth, but Does Not Influence on Animal Cells. <i>Nanomaterials</i> , 2020 , 10,	5.4	12
102	Generation of Hydroxyl Radicals during Laser Breakdown of Aqueous Solutions in the Presence of Fe and Cu Nanoparticles of Different Sizes. <i>Physics of Wave Phenomena</i> , 2020 , 28, 107-110	1.2	12
101	Structural modification of titanium surface by octacalcium phosphate via Pulsed Laser Deposition and chemical treatment. <i>Bioactive Materials</i> , 2017 , 2, 101-107	16.7	11
100	Guanosine and inosine as natural antioxidants and radioprotectors for mice exposed to lethal doses of gamma-radiation. <i>Doklady Biochemistry and Biophysics</i> , 2006 , 407, 47-50	0.8	11

99	Development and application of photoconversion fluoropolymer films for greenhouses located at high or polar latitudes. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020 , 213, 112056	6.7	11
98	Thermodynamic mathematical model of the Kastanozem complex and new principles of sustainable semiarid protective silviculture management. <i>Environmental Research</i> , 2021 , 194, 110605	7.9	11
97	An Activated Potassium Phosphate Fertilizer Solution for Stimulating the Growth of Agricultural Plants. <i>Frontiers in Physics</i> , 2021 , 8,	3.9	11
96	Biocompatibility of the Ti81Nb13Ta3Zr3 Alloy. <i>Doklady Chemistry</i> , 2018 , 482, 204-206	0.8	11
95	Effect of betulin and betulonic acid on isolated rat liver mitochondria and liposomes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020 , 1862, 183383	3.8	10
94	Protection of mice against X-ray injuries by the post-irradiation administration of inosine-5-monophosphate. <i>Journal of Radiation Research</i> , 2012 , 53, 211-6	2.4	10
93	Formation of the Reactive Species of Oxygen, Nitrogen, and Carbon Dioxide in Aqueous Solutions under Physical Impacts. <i>Physics of Wave Phenomena</i> , 2020 , 28, 103-106	1.2	10
92	Manufacturing and Study of Mechanical Properties, Structure and Compatibility with Biological Objects of Plates and Wire from New Ti-25Nb-13Ta-5Zr Alloy. <i>Metals</i> , 2020 , 10, 1584	2.3	10
91	Development of a Biocompatible PLGA Polymers Capable to Release Thrombolytic Enzyme Prourokinase. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2020 , 31, 1405-1420	3.5	9
90	Preparation, structural and microstructural characterization of Ti80Nb10Ta10Zr alloy for biomedical applications. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 16018-16028	5.5	9
89	Water Decomposition Occurring During Laser Breakdown of Aqueous Solutions Containing Individual Gold, Zirconium, Molybdenum, Iron or Nickel Nanoparticles. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	9
88	Membranotropic effects of hydroxypalmitic acid and Ca on rat liver mitochondria and lecithin liposomes. Aggregation and membrane permeabilization. <i>Journal of Bioenergetics and Biomembranes</i> , 2018 , 50, 391-401	3.7	9
87	Laser Fabrication and Fragmentation of Selenium Nanoparticles in Aqueous Media. <i>Physics of Wave Phenomena</i> , 2019 , 27, 113-118	1.2	8
86	Self-oscillating water luminescence induced by laser irradiation. <i>Doklady Biochemistry and Biophysics</i> , 2009 , 425, 114-6	0.8	8
85	The role of TLR4/NF- κ B signaling in the radioprotective effects of exogenous Prdx6. <i>Archives of Biochemistry and Biophysics</i> , 2021 , 702, 108830	4.1	8
84	Physicochemical Properties of Pure Water Treated by Pure Argon Plasma Jet Generated by Microwave Discharge in Opened Atmosphere. <i>Frontiers in Physics</i> , 2021 , 8,	3.9	8
83	Electro-optical performance of nematic liquid crystals doped with gold nanoparticles. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 395102	1.8	7
82	Concentration Dependences of Molecular Oxygen and Hydrogen in Aqueous Solutions. <i>Doklady Physics</i> , 2020 , 65, 5-7	0.8	7

81	Impact of biologically relevant anions on reactive oxygen species formation in water under the action of non-ionizing physical agents. <i>Biophysics (Russian Federation)</i> , 2014 , 59, 700-707	0.7	7
80	X-ray- and heat-induced generation of hydrogen peroxide and hydroxyl radicals in aqueous solutions of L-amino acids. <i>Biophysics (Russian Federation)</i> , 2008 , 53, 1-7	0.7	7
79	Influence of Fluoropolymer Film Modified With Nanoscale Photoluminophor on Growth and Development of Plants. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	7
78	Peroxiredoxin 6 is a natural radioprotector. <i>Doklady Biochemistry and Biophysics</i> , 2016 , 467, 110-2	0.8	7
77	Interaction of the anti-tuberculous drug bedaquiline with artificial membranes and rat erythrocytes. <i>Chemico-Biological Interactions</i> , 2019 , 299, 8-14	5	7
76	Analysis of Acoustic Signals During the Optical Breakdown of Aqueous Solutions of Fe Nanoparticles. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	6
75	Time dependence of the luminescence from a polymer membrane swollen in water: Concentration and isotopic effects. <i>Physics of Wave Phenomena</i> , 2017 , 25, 259-271	1.2	6
74	Influence of the Concentration of Fe and Cu Nanoparticles on the Dynamics of the Size Distribution of Nanoparticles. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	6
73	Effect of chronic radiation on long-distance electrical signals in wheat and their role in adaptation to heat stress. <i>Environmental and Experimental Botany</i> , 2021 , 184, 104378	5.9	6
72	Influence of electromagnetic waves, with maxima in the green or red range, on the morphofunctional properties of multipotent stem cells. <i>Journal of Biological Physics</i> , 2019 , 45, 317-334	1.6	5
71	The effect of dilution on the aggregation of polycarboxylated C60 fullerene nanoparticles. <i>Biophysics (Russian Federation)</i> , 2015 , 60, 30-34	0.7	5
70	A chimeric recombinant protein with peroxidase and superoxide dismutase activities: Physico-chemical characterization and applicability to neutralize oxidative stress caused by ionizing radiation. <i>Biochemical Engineering Journal</i> , 2020 , 159, 107603	4.2	5
69	The Effects of the Low Temperature Argon Plasma on Stem Cells Proliferation and Regeneration in Planarians. <i>Plasma Processes and Polymers</i> , 2016 , 13, 788-801	3.4	5
68	Hydrogen peroxide induced by modulated electromagnetic radiation protects the cells from DNA damage. <i>Open Life Sciences</i> , 2014 , 9, 915-921	1.2	5
67	Heat-induced formation of nitrogen oxides in water. <i>Journal of Biological Physics</i> , 2013 , 39, 687-99	1.6	5
66	Development of a Biodegradable Polymer Based on High-Molecular-Weight Polylactide for Medicine and Agriculture: Mechanical Properties and Biocompatibility. <i>Doklady Chemistry</i> , 2020 , 490, 36-39	0.8	5
65	Vibration/Vortex Mechanism of Radical-Reaction Activation in an Aqueous Solution: Physical Analogies. <i>Physics of Wave Phenomena</i> , 2021 , 29, 108-113	1.2	5
64	The Effect of Plant Growth Compensation by Adding Silicon-Containing Fertilizer under Light Stress Conditions. <i>Plants</i> , 2021 , 10,	4.5	5

63	Poly(lactide)-Based Stent Coatings: Biodegradable Polymeric Coatings Capable of Maintaining Sustained Release of the Thrombolytic Enzyme Prourokinase. <i>Materials</i> , 2019 , 12,	3.5	5
62	Investigation of Deuterium Substitution Effects in a Polymer Membrane Using IR Fourier Spectrometry. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2018 , 125, 337-342	2.7	5
61	The Use of Fluorescence Spectra for the Detection of Scab and Rot in Fruit and Vegetable Crops. <i>Frontiers in Physics</i> , 2021 , 8,	3.9	5
60	Effects of Low-Temperature Plasma Glow Discharge on the Proliferative Activity of Cells and the Repair Functions of Tissues in Animals and Plants. <i>Bio-Medical Engineering</i> , 2020 , 53, 407-412	0.5	4
59	Effects of Phospholipase A2 Inhibitors on Bilayer Lipid Membranes. <i>Journal of Membrane Biology</i> , 2016 , 249, 339-47	2.3	4
58	Effect of Up-Converting Luminescent Nanoparticles with Increased Quantum Yield Incorporated into the Fluoropolymer Matrix on Solanum lycopersicum Growth. <i>Agronomy</i> , 2022 , 12, 108	3.6	4
57	Features of the cytoprotective effect of selenium nanoparticles on primary cortical neurons and astrocytes during oxygen-glucose deprivation and reoxygenation.. <i>Scientific Reports</i> , 2022 , 12, 1710	4.9	4
56	Hydroperoxide-Reducing Enzymes in the Regulation of Free-Radical Processes.. <i>Biochemistry (Moscow)</i> , 2021 , 86, 1256-1274	2.9	4
55	Novel Biocompatible with Animal Cells Composite Material Based on Organosilicon Polymers and Fullerenes with Light-Induced Bacteriostatic Properties. <i>Nanomaterials</i> , 2021 , 11,	5.4	4
54	Formation of Water-Free Cavity in the Process of Nafion Swelling in a Cell of Limited Volume; Effect of Polymer Fibers Unwinding. <i>Polymers</i> , 2020 , 12,	4.5	4
53	The Role of Mitochondria in the Dual Effect of Low-Temperature Plasma on Human Bone Marrow Stem Cells: From Apoptosis to Activation of Cell Proliferation. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8971	2.6	4
52	Effect of Gas Type and Its Pressure on Nanobubble Generation. <i>Frontiers in Chemistry</i> , 2021 , 9, 630074	5	4
51	Long-Term Effect of Low-Frequency Electromagnetic Irradiation in Water and Isotonic Aqueous Solutions as Studied by Photoluminescence from Polymer Membrane. <i>Polymers</i> , 2021 , 13,	4.5	4
50	Application of Optical Quality Control Technologies in the Dairy Industry: An Overview. <i>Photonics</i> , 2021 , 8, 551	2.2	4
49	Reactive Oxygen Species Registration in Planarian Regeneration. <i>Applied Physics Research</i> , 2015 , 7, 13	1.3	3
48	Interaction of C60 fullerene-polyvinylpyrrolidone complex and brain A β (1-42)-peptide in vitro. <i>Biophysics (Russian Federation)</i> , 2014 , 59, 685-688	0.7	3
47	Caffeine modifies effects of X-ray action on mice after exposure to radiation and exhibits radioprotective properties. <i>Doklady Biochemistry and Biophysics</i> , 2012 , 442, 22-5	0.8	3
46	Poly(lactide)-based stent coatings: biodegradable polymeric coatings capable of maintaining sustained release of the thrombolytic enzyme streptokinase. <i>Pure and Applied Chemistry</i> , 2020 , 92, 1329-1340	2.1	3

45	Influence of Gases Dissolved in Water on the Process of Optical Breakdown of Aqueous Solutions of Cu Nanoparticles. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	3
44	Unfolding and Aggregation of Lysozyme under the Combined Action of Dithiothreitol and Guanidine Hydrochloride: Optical Studies. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
43	Evolution of the Size Distribution of Gold Nanoparticles under Laser Irradiation. <i>Physics of Wave Phenomena</i> , 2021 , 29, 102-107	1.2	3
42	Peroxiredoxin 1 - Multifunctional antioxidant enzyme, protects from oxidative damages and increases the survival rate of mice exposed to total body irradiation. <i>Archives of Biochemistry and Biophysics</i> , 2021 , 697, 108671	4.1	3
41	A Theoretical Analysis of Relations between Pressure Changes along Xylem Vessels and Propagation of Variation Potential in Higher Plants. <i>Plants</i> , 2021 , 10,	4.5	3
40	The Role of Intermolecular Disulfide Bonds in Stabilizing the Structure of Peroxiredoxins. <i>Biophysics (Russian Federation)</i> , 2018 , 63, 154-161	0.7	3
39	Nanocurcumin-Loaded UCNPs for Cancer Theranostics: Physicochemical Properties, In Vitro Toxicity, and In Vivo Imaging Studies. <i>Nanomaterials</i> , 2021 , 11,	5.4	3
38	Investigation of the phase states of aqueous salt solutions near a polymer membrane surface. <i>Physics of Wave Phenomena</i> , 2015 , 23, 255-264	1.2	2
37	The Protective Mechanism of Deuterated Linoleic Acid Involves the Activation of the Ca Signaling System of Astrocytes in Ischemia In Vitro.. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
36	Additive Production of a Material Based on an Acrylic Polymer with a Nanoscale Layer of ZnO Nanorods Deposited Using a Direct Current Magnetron Discharge: Morphology, Photoconversion Properties, and Biosafety. <i>Materials</i> , 2021 , 14,	3.5	2
35	Analysis of Fat and Protein Content in Milk Using Laser Polarimetric Scatterometry. <i>Agriculture (Switzerland)</i> , 2021 , 11, 1028	3	2
34	Increase of Productivity and Neutralization of Pathological Processes in Plants of Grain and Fruit Crops with the Help of Aqueous Solutions Activated by Plasma of High-Frequency Glow Discharge. <i>Plants</i> , 2021 , 10,	4.5	2
33	New Organosilicon Composite Based on Borosiloxane and Zinc Oxide Nanoparticles Inhibits Bacterial Growth, but Does Not Have a Toxic Effect on the Development of Animal Eukaryotic Cells. <i>Materials</i> , 2021 , 14,	3.5	2
32	The Application of Terahertz Time-Domain Spectroscopy to Identification of Potato Late Blight and Fusariosis. <i>Pathogens</i> , 2021 , 10,	4.5	2
31	Structure and refractive index of fibrin protofibril aggregates according to laser phase microscopy accompanied by DLS and AFM. <i>Biomedical Optics Express</i> , 2021 , 12, 2938-2951	3.5	2
30	Features of optical breakdown of aqueous colloidal solutions of ferric oxide (Fe ₂ O ₃) nanoparticles occurring on individual or on two closely located nanoparticles. <i>Chemical Physics Letters</i> , 2021 , 776, 138697	2.5	2
29	Applications of Mueller Matrix Polarimetry to Biological and Agricultural Diagnostics: A Review. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 5258	2.6	2
28	The continuous generation of hydrogen peroxide in water containing very low concentrations of unsymmetrical dimethylhydrazine. <i>Biophysics (Russian Federation)</i> , 2015 , 60, 553-558	0.7	1

27	Kinetics of the Light-Oxygen Effect in Aqueous Solutions of Proteins. <i>Bulletin of the Lebedev Physics Institute</i> , 2020 , 47, 76-81	0.5	1
26	Intrinsic chemiluminescence of neoblasts in the course of planarian regeneration. <i>Biophysics (Russian Federation)</i> , 2015 , 60, 805-809	0.7	1
25	The influence of spermine on Ca ²⁺ -dependent permeability transition in mitochondria and liposomes induced by palmitic and hexadecanedioic acids. <i>Biophysics (Russian Federation)</i> , 2014 , 59, 727-731	0.7	1
24	Long-lived radicals of amino acids induced by X-ray radiation are the source of hydrogen peroxide in aqueous medium. <i>Biophysics (Russian Federation)</i> , 2010 , 55, 530-534	0.7	1
23	Role of Glutathione Peroxidases and Peroxiredoxins in Free Radical-Induced Pathologies.. <i>Biochemistry (Moscow)</i> , 2021 , 86, 1418-1433	2.9	1
22	Investigation of the laser-induced breakdown plasma, acoustic vibrations and dissociation processes of water molecules caused by laser breakdown of colloidal solutions containing Ni nanoparticles. <i>Plasma Sources Science and Technology</i> ,	3.5	1
21	A Device for Biological Activation of Aqueous Solutions Using Glow Discharge Plasma in Water Vapor. <i>Bio-Medical Engineering</i> , 2021 , 55, 97-102	0.5	1
20	Production and application of selenium nanoparticles to prevent ionizing radiation-induced oxidative stress. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 390, 012031	0.3	1
19	A Ti ₂ ONb ₁₀ Ta ₅ Zr Alloy with the Surface Structured on the Micro- and Nanoscale. <i>Doklady Physics</i> , 2021 , 66, 14-16	0.8	1
18	Case Report: Investigation of the Time Evolution of Optical Breakdown Plasma During Irradiation of Aqueous Solutions of Fe Nanoparticles. <i>Frontiers in Physics</i> , 2021 , 9,	3.9	1
17	Nafion Swelling in Salt Solutions in a Finite Sized Cell: Curious Phenomena Dependent on Sample Preparation Protocol.. <i>Polymers</i> , 2022 , 14,	4.5	1
16	Bacteriostatic and Cytotoxic Properties of Composite Material Based on ZnO Nanoparticles in PLGA Obtained by Low Temperature Method.. <i>Polymers</i> , 2021 , 14,	4.5	1
15	Enhancement of the Plant Grafting Technique with Dielectric Barrier Discharge Cold Atmospheric Plasma and Plasma-Treated Solution. <i>Plants</i> , 2022 , 11, 1373	4.5	1
14	Study of the mechanisms of cytotoxic effect of uranyl nitrate. <i>Biophysics (Russian Federation)</i> , 2012 , 57, 607-612	0.7	0
13	Cultivation of Solanum lycopersicum under Glass Coated with Nanosized Upconversion Luminophore. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 10726	2.6	0
12	Swelling of Polymer Membrane in an Aqueous Protein Suspension: Photoluminescence Spectroscopy Experiments. <i>Physics of Wave Phenomena</i> , 2021 , 29, 123-130	1.2	0
11	Using Fluorescence Spectroscopy to Detect Rot in Fruit and Vegetable Crops. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 3391	2.6	0
10	Improving Calibration Strategy for LIBS Heavy Metals Analysis in Agriculture Applications. <i>Photonics</i> , 2021 , 8, 563	2.2	0

9	Influence of Magnetic Fields with Induction of 7 T on Physical and Chemical Properties of Aqueous NaCl Solutions. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 11466	2.6	o
8	Comparison of structural properties of cyclosporin A and its analogue alisporivir and their effects on mitochondrial bioenergetics and membrane behavior. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2022 , 1864, 183972	3.8	o
7	Biocompatibility of Biodegradable Polymer Films Based on Poly(lactic-co-glycolic acid) of Various Molecular Weights. <i>Inorganic Materials: Applied Research</i> , 2019 , 10, 887-891	0.6	
6	Laser ablation method for the generation of chromium, iron, manganese, nickel, scandium, titanium and vanadium, nanoparticles: control of size and properties. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 921, 012024	0.4	
5	Creation and application of fluoropolymer photoconversion films for greenhouses: Concept.. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 525, 012087	0.4	
4	The research of time dependence polymeric membrane swelling in water with various deuterium content. <i>Journal of Physics: Conference Series</i> , 2019 , 1348, 012035	0.3	
3	The Formation of Long-Lived Reactive Protein Species in Heat-Treated Solutions of Gelatin and Casein. <i>Biophysics (Russian Federation)</i> , 2018 , 63, 694-699	0.7	
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1	Photoluminescence Spectroscopy of an Aqueous Solution of Uranyl Chloride upon Laser and LED Excitation. <i>Physics of Wave Phenomena</i> , 2018 , 26, 301-305	1.2	