Sergey Gudkov

List of Publications by Year
in descending order

160	3,620	147566	189595
papers	citations	31 h-index	50 g-index

171	171	171	2400
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Mini Review of Antibacterial Properties of ZnO Nanoparticles. Frontiers in Physics, 2021, 9, .	1.0	233
2	Peculiarities of the antioxidant and radioprotective effects of hydrated C60 fullerene nanostuctures in vitro and in vivo. Free Radical Biology and Medicine, 2009, 47, 786-793.	1.3	155
3	Do Iron Oxide Nanoparticles Have Significant Antibacterial Properties?. Antibiotics, 2021, 10, 884.	1.5	143
4	Targeted Radionuclide Therapy of Human Tumors. International Journal of Molecular Sciences, 2016, 17, 33.	1.8	130
5	Effect of ionizing radiation on physiological and molecular processes in plants. Journal of Environmental Radioactivity, 2019, 202, 8-24.	0.9	110
6	Guanosine and Inosine Display Antioxidant Activity, Protect DNAIn Vitrofrom Oxidative Damage Induced by Reactive Oxygen Species, and Serve as Radioprotectors in Mice. Radiation Research, 2006, 165, 538-545.	0.7	100
7	Production and Use of Selenium Nanoparticles as Fertilizers. ACS Omega, 2020, 5, 17767-17774.	1.6	96
8	Formation and Dynamics of Ion-Stabilized Gas Nanobubble Phase in the Bulk of Aqueous NaCl Solutions. Journal of Physical Chemistry B, 2016, 120, 1291-1303.	1.2	79
9	Unmodified hydrated Ð¡60 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. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 15, 37-46.	1.7	63
10	Prolongation of oxidative stress by long-lived reactive protein species induced by X-ray radiation and their genotoxic action. Free Radical Research, 2012, 46, 1280-1290.	1.5	60
11	Radioactive (⁹⁰ Y) upconversion nanoparticles conjugated with recombinant targeted toxin for synergistic nanotheranostics of cancer. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9690-9695.	3.3	58
12	Effect of Mechanical Shaking on the Physicochemical Properties of Aqueous Solutions. International Journal of Molecular Sciences, 2020, 21, 8033.	1.8	57
13	Chemical and radiological toxicity of uranium compounds. Russian Journal of General Chemistry, 2016, 86, 1531-1538.	0.3	56
14	Shaking-Induced Aggregation and Flotation in Immunoglobulin Dispersions: Differences between Water and Waterâ€“Ethanol Mixtures. ACS Omega, 2020, 5, 14689-14701.	1.6	54
15	Oxygen-Dependent Auto-Oscillations of Water Luminescence Triggered by the 1264 nm Radiation. Journal of Physical Chemistry B, 2011, 115, 7693-7698.	1.2	53
16	The Effect of Gold Nanoparticle Concentration and Laser Fluence on the Laser-Induced Water Decomposition. Journal of Physical Chemistry B, 2019, 123, 1869-1880.	1.2	51
17	Influence of Mechanical Effects on the Hydrogen Peroxide Concentration in Aqueous Solutions. Physics of Wave Phenomena, 2019, 27, 141-144.	0.3	49
18	Protective and adaptogenic role of peroxiredoxin 2 (Prx2) in neutralization of oxidative stress induced by ionizing radiation. Free Radical Biology and Medicine, 2019, 134, 76-86.	1.3	48

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19	Radioprotective Role of Peroxiredoxin 6. Antioxidants, 2019, 8, 15.	2.2	44
20	Mechanisms of the Cytotoxic Effect of Selenium Nanoparticles in Different Human Cancer Cell Lines. International Journal of Molecular Sciences, 2021, 22, 7798.	1.8	44
21	Effect of visible light on biological objects: Physiological and pathophysiological aspects. Physics of Wave Phenomena, 2017, 25, 207-213.	0.3	41
22	Pro-oxidative, genotoxic and cytotoxic properties of uranyl ions. Journal of Environmental Radioactivity, 2014, 127, 163-170.	0.9	40
23	Long-lived protein radicals induced by X-ray irradiation are the source of reactive oxygen species in aqueous medium. Doklady Biochemistry and Biophysics, 2010, 430, 1-4.	0.3	39
24	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. Free Radical Research, 2017, 51, 148-166.	1.5	39
25	Protection of mice against X-ray injuries by the post-irradiation administration of guanosine and inosine. International Journal of Radiation Biology, 2009, 85, 116-125.	1.0	38
26	Biocompatibility of new materials based on nano-structured nitinol with titanium and tantalum composite surface layers: experimental analysis in vitro and in vivo. Journal of Materials Science: Materials in Medicine, 2018, 29, 33.	1.7	38
27	Effect of amino acids on X-ray-induced hydrogen peroxide and hydroxyl radical formation in water and 8-oxoguanine in DNA. Biochemistry (Moscow), 2008, 73, 470-478.	0.7	34
28	Generation of reactive oxygen species in water under exposure to visible or infrared irradiation at absorption bands of molecular oxygen. Biophysics (Russian Federation), 2012, 57, 1-8.	0.2	34
29	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. Journal of Photochemistry and Photobiology B: Biology, 2017, 176, 36-43.	1.7	33
30	An Activated Potassium Phosphate Fertilizer Solution for Stimulating the Growth of Agricultural Plants. Frontiers in Physics, 2021, 8, .	1.0	33
31	Guanosine and inosine (riboxin) eliminate the long-lived protein radicals induced X-ray radiation. Doklady Biochemistry and Biophysics, 2007, 413, 50-53.	0.3	32
32	Near-surface structure of Nafion in deuterated water. Journal of Chemical Physics, 2018, 149, 164901.	1.2	32
33	X-ray- and heat-induced generation of hydrogen peroxide and hydroxyl radicals in aqueous solutions of L-amino acids. Biophysics (Russian Federation), 2008, 53, 1-7.	0.2	30
34	Influence of a Constant Magnetic Field on Some Properties of Water Solutions. Doklady Physics, 2020, 65, 273-275.	0.2	30
35	Mechanical, physicalâ€“chemical and biological properties of the new Tiâ€“30Nbâ€“13Taâ€“5Zr alloy. Journal of Materials Science, 2020, 55, 14516-14529.	1.7	28
36	Effect of betulin and betulonic acid on isolated rat liver mitochondria and liposomes. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183383.	1.4	27

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37	Development and application of photoconversion fluoropolymer films for greenhouses located at high or polar latitudes. Journal of Photochemistry and Photobiology B: Biology, 2020, 213, 112056.	1.7	26
38	Features of the cytoprotective effect of selenium nanoparticles on primary cortical neurons and astrocytes during oxygenâ€“glucose deprivation and reoxygenation. Scientific Reports, 2022, 12, 1710.	1.6	26
39	Radioprotective substances: History, trends and prospects. Biophysics (Russian Federation), 2015, 60, 659-667.	0.2	25
40	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. Biochimie, 2020, 176, 150-157.	1.3	25
41	Study of the physicochemical and biological properties of the new promising Tiâ€“20Nbâ€“13Taâ€“5Zr alloy for biomedical applications. Materials Chemistry and Physics, 2020, 255, 123557.	2.0	23
42	Formation of the Reactive Species of Oxygen, Nitrogen, and Carbon Dioxide in Aqueous Solutions under Physical Impacts. Physics of Wave Phenomena, 2020, 28, 103-106.	0.3	23
43	Biodegradable stent coatings on the basis of PLGA polymers of different molecular mass, sustaining a steady release of the thrombolityc enzyme streptokinase. Reactive and Functional Polymers, 2020, 150, 104550.	2.0	23
44	Physicochemical Properties of Pure Water Treated by Pure Argon Plasma Jet Generated by Microwave Discharge in Opened Atmosphere. Frontiers in Physics, 2021, 8, .	1.0	23
45	Formation of long-lived reactive species of blood serum proteins by the action of heat. Biochemical and Biophysical Research Communications, 2014, 443, 957-961.	1.0	22
46	Photoconversion Fluoropolymer Films for the Cultivation of Agricultural Plants Under Conditions of Insufficient Insolation. Applied Sciences (Switzerland), 2020, 10, 8025.	1.3	21
47	Generation of Hydroxyl Radicals during Laser Breakdown of Aqueous Solutions in the Presence of Fe and Cu Nanoparticles of Different Sizes. Physics of Wave Phenomena, 2020, 28, 107-110.	0.3	21
48	The role of TLR4/NF-ÎºB signaling in the radioprotective effects of exogenous Prdx6. Archives of Biochemistry and Biophysics, 2021, 702, 108830.	1.4	21
49	Antioxidative and Radiation Modulating Properties of Guanosine-5â€²-Monophosphate. Nucleosides, Nucleotides and Nucleic Acids, 2010, 29, 786-799.	0.4	20
50	Influence of Fluoropolymer Film Modified With Nanoscale Photoluminophor on Growth and Development of Plants. Frontiers in Physics, 2020, 8, .	1.0	19
51	Water Decomposition Occurring During Laser Breakdown of Aqueous Solutions Containing Individual Gold, Zirconium, Molybdenum, Iron or Nickel Nanoparticles. Frontiers in Physics, 2020, 8, .	1.0	19
52	Effect of chronic Î²-radiation on long-distance electrical signals in wheat and their role in adaptation to heat stress. Environmental and Experimental Botany, 2021, 184, 104378.	2.0	19
53	Dynamics of Nafion membrane swelling in H2O/D2O mixtures as studied using FTIR technique. Journal of Chemical Physics, 2018, 148, 124901.	1.2	18
54	New Nanostructured Carbon Coating Inhibits Bacterial Growth, but Does Not Influence on Animal Cells. Nanomaterials, 2020, 10, 2130.	1.9	18

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55	The Effect of Plant Growth Compensation by Adding Silicon-Containing Fertilizer under Light Stress Conditions. Plants, 2021, 10, 1287.	1.6	18
56	Application of Optical Quality Control Technologies in the Dairy Industry: An Overview. Photonics, 2021, 8, 551.	0.9	18
57	Size-Dependent Cytoprotective Effects of Selenium Nanoparticles during Oxygen-Glucose Deprivation in Brain Cortical Cells. International Journal of Molecular Sciences, 2022, 23, 7464.	1.8	18
58	Kinetics of the release of antibiotics from chitosan-based biodegradable biopolymer membranes. Doklady Chemistry, 2015, 465, 278-280.	0.2	17
59	Structural modification of titanium surface by octacalcium phosphate via Pulsed Laser Deposition and chemical treatment. Bioactive Materials, 2017, 2, 101-107.	8.6	17
60	Exogenous 8-oxo-7,8-dihydro-2â€²-deoxyguanosine: Biomedical properties, mechanisms of action, and therapeutic potential. Biochemistry (Moscow), 2017, 82, 1686-1701.	0.7	17
61	Influence of wideband visible light with an padding red component on the functional state of mice embryos and embryonic stem cells. Journal of Photochemistry and Photobiology B: Biology, 2018, 188, 77-86.	1.7	17
62	Preparation, structural and microstructural characterization of Tiâ€“30Nbâ€“10Taâ€“5Zr alloy for biomedical applications. Journal of Materials Research and Technology, 2020, 9, 16018-16028.	2.6	17
63	Electro-optical performance of nematic liquid crystals doped with gold nanoparticles. Journal of Physics Condensed Matter, 2020, 32, 395102.	0.7	17
64	Development of a Biocompatible PLGA Polymers Capable to Release Thrombolytic Enzyme Prourokinase. Journal of Biomaterials Science, Polymer Edition, 2020, 31, 1405-1420.	1.9	17
65	Thermodynamic mathematical model of the Kastanozem complex and new principles of sustainable semiarid protective silviculture management. Environmental Research, 2021, 194, 110605.	3.7	17
66	Vibrationâ€“Vortex Mechanism of Radical-Reaction Activation in an Aqueous Solution: Physical Analogies. Physics of Wave Phenomena, 2021, 29, 108-113.	0.3	16
67	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. Plasma Sources Science and Technology, 2021, 30, 125015.	1.3	16
68	Genotoxic effect of long-lived protein radicals in vivo generated by X-ray irradiation. Doklady Biochemistry and Biophysics, 2010, 434, 250-253.	0.3	15
69	Biocompatibility of nanostructured nitinol with titanium or tantalum surface composite layers formed by magnetron sputtering. Doklady Chemistry, 2015, 461, 86-88.	0.2	15
70	Development of a Biocompatible and Biodegradable Polymer Capable of Long-Term Release of Biologically Active Substances for Medicine and Agriculture. Doklady Chemistry, 2019, 489, 261-263.	0.2	15
71	Manufacturing and Study of Mechanical Properties, Structure and Compatibility with Biological Objects of Plates and Wire from New Ti-25Nb-13Ta-5Zr Alloy. Metals, 2020, 10, 1584.	1.0	15
72	Unfolding and Aggregation of Lysozyme under the Combined Action of Dithiothreitol and Guanidine Hydrochloride: Optical Studies. International Journal of Molecular Sciences, 2021, 22, 2710.	1.8	15

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73	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. Plants, 2021, 10, 2161.	1.6	15
74	Bacteriostatic and Cytotoxic Properties of Composite Material Based on ZnO Nanoparticles in PLGA Obtained by Low Temperature Method. Polymers, 2022, 14, 49.	2.0	15
75	Oxygen effect in heat-induced DNA damage. Biophysics (Russian Federation), 2007, 52, 185-190.	0.2	14
76	Laser Fabrication and Fragmentation of Selenium Nanoparticles in Aqueous Media. Physics of Wave Phenomena, 2019, 27, 113-118.	0.3	14
77	Influence of the Concentration of Fe and Cu Nanoparticles on the Dynamics of the Size Distribution of Nanoparticles. Frontiers in Physics, 2020, 8, .	1.0	14
78	Effect of Up-Converting Luminescent Nanoparticles with Increased Quantum Yield Incorporated into the Fluoropolymer Matrix on Solanum lycopersicum Growth. Agronomy, 2022, 12, 108.	1.3	14
79	Protection of Mice against X-ray Injuries by the Post-irradiation Administration of Inosine-5'-monophosphate. Journal of Radiation Research, 2012, 53, 211-216.	0.8	13
80	Self-oscillating Water Chemiluminescence Modes and Reactive Oxygen Species Generation Induced by Laser Irradiation; Effect of the Exclusion Zone Created by Nafion. Entropy, 2014, 16, 6166-6185.	1.1	13
81	Concentration Dependences of Molecular Oxygen and Hydrogen in Aqueous Solutions. Doklady Physics, 2020, 65, 5-7.	0.2	13
82	Effect of Gas Type and Its Pressure on Nanobubble Generation. Frontiers in Chemistry, 2021, 9, 630074.	1.8	13
83	Nanocurcumin-Loaded UCNPs for Cancer Theranostics: Physicochemical Properties, In Vitro Toxicity, and In Vivo Imaging Studies. Nanomaterials, 2021, 11, 2234.	1.9	13
84	Novel Biocompatible with Animal Cells Composite Material Based on Organosilicon Polymers and Fullerenes with Light-Induced Bacteriostatic Properties. Nanomaterials, 2021, 11, 2804.	1.9	13
85	Role of Glutathione Peroxidases and Peroxiredoxins in Free Radical-Induced Pathologies. Biochemistry (Moscow), 2021, 86, 1418-1433.	0.7	13
86	The Protective Mechanism of Deuterated Linoleic Acid Involves the Activation of the Ca2+ Signaling System of Astrocytes in Ischemia In Vitro. International Journal of Molecular Sciences, 2021, 22, 13216.	1.8	13
87	Guanosine and inosine as natural antioxidants and radioprotectors for mice exposed to lethal doses of Î³-radiation. Doklady Biochemistry and Biophysics, 2006, 407, 47-50.	0.3	12
88	Biocompatibility of the Ti81Nb13Ta3Zr3 Alloy. Doklady Chemistry, 2018, 482, 204-206.	0.2	12
89	Long-Term Effect of Low-Frequency Electromagnetic Irradiation in Water and Isotonic Aqueous Solutions as Studied by Photoluminescence from Polymer Membrane. Polymers, 2021, 13, 1443.	2.0	12
90	The Use of Fluorescence Spectra for the Detection of Scab and Rot in Fruit and Vegetable Crops. Frontiers in Physics, 2021, 8, .	1.0	12

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91	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. Materials, 2021, 14, 6281.	1.3	12
92	Enhancement of the Plant Grafting Technique with Dielectric Barrier Discharge Cold Atmospheric Plasma and Plasma-Treated Solution. Plants, 2022, 11, 1373.	1.6	12
93	Applications of Mueller Matrix Polarimetry to Biological and Agricultural Diagnostics: A Review. Applied Sciences (Switzerland), 2022, 12, 5258.	1.3	12
94	Comparative Analysis of the Cytotoxic Effect of a Complex of Selenium Nanoparticles Doped with Sorafenib, â€œNakedâ€•Selenium Nanoparticles, and Sorafenib on Human Hepatocyte Carcinoma HepG2 Cells. International Journal of Molecular Sciences, 2022, 23, 6641.	1.8	12
95	Impact of biologically relevant anions on reactive oxygen species formation in water under the action of non-ionizing physical agents. Biophysics (Russian Federation), 2014, 59, 700-707.	0.2	11
96	Peroxiredoxin 6 is a natural radioprotector. Doklady Biochemistry and Biophysics, 2016, 467, 110-112.	0.3	11
97	Formation of Water-Free Cavity in the Process of Nafion Swelling in a Cell of Limited Volume; Effect of Polymer Fibers Unwinding. Polymers, 2020, 12, 2888.	2.0	11
98	Analysis of Acoustic Signals During the Optical Breakdown of Aqueous Solutions of Fe Nanoparticles. Frontiers in Physics, 2020, 8, .	1.0	11
99	Influence of Gases Dissolved in Water on the Process of Optical Breakdown of Aqueous Solutions of Cu Nanoparticles. Frontiers in Physics, 2020, 8, .	1.0	11
100	Membranotropic effects of Ï‰-hydroxypalmitic acid and Ca2+ on rat liver mitochondria and lecithin liposomes. Aggregation and membrane permeabilization. Journal of Bioenergetics and Biomembranes, 2018, 50, 391-401.	1.0	10
101	Evolution of the Size Distribution of Gold Nanoparticles under Laser Irradiation. Physics of Wave Phenomena, 2021, 29, 102-107.	0.3	10
102	Hydroperoxide-Reducing Enzymes in the Regulation of Free-Radical Processes. Biochemistry (Moscow), 2021, 86, 1256-1274.	0.7	10
103	Cultivation of Solanum lycopersicum under Glass Coated with Nanosized Upconversion Luminophore. Applied Sciences (Switzerland), 2021, 11, 10726.	1.3	10
104	Synthesis of a Novel, Biocompatible and Bacteriostatic Borosiloxane Composition with Silver Oxide Nanoparticles. Materials, 2022, 15, 527.	1.3	10
105	Using Fluorescence Spectroscopy to Detect Rot in Fruit and Vegetable Crops. Applied Sciences (Switzerland), 2022, 12, 3391.	1.3	10
106	Impact of Ultraviolet Radiation on the Pigment Content and Essential Oil Accumulation in Sweet Basil (Ocimum basilicum L.). Applied Sciences (Switzerland), 2022, 12, 7190.	1.3	10
107	Self-oscillating water luminescence induced by laser irradiation. Doklady Biochemistry and Biophysics, 2009, 425, 114-116.	0.3	9
108	Heat-induced formation of nitrogen oxides in water. Journal of Biological Physics, 2013, 39, 687-699.	0.7	9

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109	The effect of dilution on the aggregation of polycarboxylated C60 fullerene nanoparticles. Biophysics (Russian Federation), 2015, 60, 30-34.	0.2	9
110	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. Materials, 2021, 14, 6586.	1.3	9
111	Time dependence of the luminescence from a polymer membrane swollen in water: Concentration and isotopic effects. Physics of Wave Phenomena, 2017, 25, 259-271.	0.3	8
112	Interaction of the anti-tuberculous drug bedaquiline with artificial membranes and rat erythrocytes. Chemico-Biological Interactions, 2019, 299, 8-14.	1.7	8
113	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. Applied Sciences (Switzerland), 2020, 10, 8971.	1.3	8
114	Peroxiredoxin 1 - Multifunctional antioxidant enzyme, protects from oxidative damages and increases the survival rate of mice exposed to total body irradiation. Archives of Biochemistry and Biophysics, 2021, 697, 108671.	1.4	8
115	A Theoretical Analysis of Relations between Pressure Changes along Xylem Vessels and Propagation of Variation Potential in Higher Plants. Plants, 2021, 10, 372.	1.6	8
116	Hydrogen peroxide induced by modulated electromagnetic radiation protects the cells from DNA damage. Open Life Sciences, 2014, 9, 915-921.	0.6	7
117	Effects of Phospholipase A2 Inhibitors on Bilayer Lipid Membranes. Journal of Membrane Biology, 2016, 249, 339-347.	1.0	7
118	A chimeric recombinant protein with peroxidase and superoxide dismutase activities: Physico-chemical characterization and applicability to neutralize oxidative stress caused by ionizing radiation. Biochemical Engineering Journal, 2020, 159, 107603.	1.8	7
119	A Device for Biological Activation of Aqueous Solutions Using Glow Discharge Plasma in Water Vapor. Bio-Medical Engineering, 2021, 55, 97-102.	0.3	7
120	Development of a Biodegradable Polymer Based on High-Molecular-Weight Polylactide for Medicine and Agriculture: Mechanical Properties and Biocompatibility. Doklady Chemistry, 2020, 490, 36-39.	0.2	7
121	Nafion Swelling in Salt Solutions in a Finite Sized Cell: Curious Phenomena Dependent on Sample Preparation Protocol. Polymers, 2022, 14, 1511.	2.0	7
122	Improving Calibration Strategy for LIBS Heavy Metals Analysis in Agriculture Applications. Photonics, 2021, 8, 563.	0.9	7
123	Influence of Magnetic Fields with Induction of 7 T on Physical and Chemical Properties of Aqueous NaCl Solutions. Applied Sciences (Switzerland), 2021, 11, 11466.	1.3	7
124	The Effects of the Low Temperature Argon Plasma on Stem Cells Proliferation and Regeneration in Planarians. Plasma Processes and Polymers, 2016, 13, 788-801.	1.6	6
125	Influence of electromagnetic waves, with maxima in the green or red range, on the morphofunctional properties of multipotent stem cells. Journal of Biological Physics, 2019, 45, 317-334.	0.7	6
126	Polylactide-Based Stent Coatings: Biodegradable Polymeric Coatings Capable of Maintaining Sustained Release of the Thrombolytic Enzyme Prourokinase. Materials, 2019, 12, 4107.	1.3	6

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127	Effects of Low-Temperature Plasma Glow Discharge on the Proliferative Activity of Cells and the Repair Functions of Tissues in Animals and Plants. Bio-Medical Engineering, 2020, 53, 407-412.	0.3	6
128	Features of optical breakdown of aqueous colloidal solutions of ferric oxide (Fe2O3) nanoparticles occurring on individual or on two closely located nanoparticles. Chemical Physics Letters, 2021, 776, 138697.	1.2	6
129	The Application of Terahertz Time-Domain Spectroscopy to Identification of Potato Late Blight and Fusariosis. Pathogens, 2021, 10, 1336.	1.2	6
130	Investigation of Deuterium Substitution Effects in a Polymer Membrane Using IR Fourier Spectrometry. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2018, 125, 337-342.	0.2	5
131	A Î² Tiâ€“20Nbâ€“10Taâ€“5Zr Alloy with the Surface Structured on the Micro- and Nanoscale. Doklady Physics, 2021, 66, 14-16.	0.2	5
132	Interaction of C60 fullerene-polyvinylpyrrolidone complex and brain AÎ²(1â€“42)-peptide in vitro. Biophysics (Russian Federation), 2014, 59, 685-688.	0.2	4
133	The Role of Intermolecular Disulfide Bonds in Stabilizing the Structure of Peroxiredoxins. Biophysics (Russian Federation), 2018, 63, 154-161.	0.2	4
134	Case Report: Investigation of the Time Evolution of Optical Breakdown Plasma During Irradiation of Aqueous Solutions of Fe Nanoparticles. Frontiers in Physics, 2021, 9, .	1.0	4
135	Swelling of Polymer Membrane in an Aqueous Protein Suspension: Photoluminescence Spectroscopy Experiments. Physics of Wave Phenomena, 2021, 29, 123-130.	0.3	4
136	Analysis of Fat and Protein Content in Milk Using Laser Polarimetric Scatterometry. Agriculture (Switzerland), 2021, 11, 1028.	1.4	4
137	Comparison of structural properties of cyclosporin A and its analogue alisporivir and their effects on mitochondrial bioenergetics and membrane behavior. Biochimica Et Biophysica Acta - Biomembranes, 2022, 1864, 183972.	1.4	4
138	Study of the mechanisms of cytotoxic effect of uranyl nitrate. Biophysics (Russian Federation), 2012, 57, 607-612.	0.2	3
139	Caffeine modifies effects of X-ray action on mice after exposure to radiation and exhibits radioprotective properties. Doklady Biochemistry and Biophysics, 2012, 442, 22-25.	0.3	3
140	Reactive Oxygen Species Registration in Planarian Regeneration. Applied Physics Research, 2015, 7, 13.	0.2	3
141	Polylactide-based stent coatings: biodegradable polymeric coatings capable of maintaining sustained release of the thrombolytic enzyme streptokinase. Pure and Applied Chemistry, 2020, 92, 1329-1340.	0.9	3
142	The influence of spermine on Ca2+-dependent permeability transition in mitochondria and liposomes induced by palmitic and Î±,Ï‰-hexadecanedioic acids. Biophysics (Russian Federation), 2014, 59, 727-731.	0.2	2
143	Investigation of the phase states of aqueous salt solutions near a polymer membrane surface. Physics of Wave Phenomena, 2015, 23, 255-264.	0.3	2
144	The continuous generation of hydrogen peroxide in water containing very low concentrations of unsymmetrical dimethylhydrazine. Biophysics (Russian Federation), 2015, 60, 553-558.	0.2	2

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145	Production and application of selenium nanoparticles to prevent ionizing radiation-induced oxidative stress. IOP Conference Series: Earth and Environmental Science, 2019, 390, 012031.	0.2	2
146	Structure and refractive index of fibrin protofibril aggregates according to laser phase microscopy accompanied by DLS and AFM. Biomedical Optics Express, 2021, 12, 2938.	1.5	2
147	Effect of Photoconversion Coatings for Greenhouses on Electrical Signal-Induced Resistance to Heat Stress of Tomato Plants. Plants, 2022, 11, 229.	1.6	2
148	Application of Laser Polarimetric Scatterometry in the Study of Water-Based Multicomponent Bioorganic Systems on the Example of Cow Milk. Physics of Wave Phenomena, 2022, 30, 186-195.	0.3	2
149	Long-lived radicals of amino acids induced by X-ray radiation are the source of hydrogen peroxide in aqueous medium. Biophysics (Russian Federation), 2010, 55, 530-534.	0.2	1
150	Intrinsic chemiluminescence of neoblasts in the course of planarian regeneration. Biophysics (Russian) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.2	1
151	Kinetics of the Light-Oxygen Effect in Aqueous Solutions of Proteins. Bulletin of the Lebedev Physics Institute, 2020, 47, 76-81.	0.1	1
152	The Formation of Long-Lived Reactive Protein Species in Heat-Treated Solutions of Gelatin and Casein. Biophysics (Russian Federation), 2018, 63, 694-699.	0.2	0
153	Spectral properties of nanocomposites based on fluorine-containing polymer and gold nanoparticles. IOP Conference Series: Materials Science and Engineering, 2018, 347, 012005.	0.3	0
154	Photoluminescence Spectroscopy of an Aqueous Solution of Uranyl Cloride upon Laser and LED Excitation. Physics of Wave Phenomena, 2018, 26, 301-305.	0.3	0
155	Biocompatibility of Biodegradable Polymer Films Based on Poly(lactic-co-glycolic acid) of Various Molecular Weights. Inorganic Materials: Applied Research, 2019, 10, 887-891.	0.1	0
156	Creation and application of fluoropolymer photoconversion films for greenhouses: Concept.. IOP Conference Series: Materials Science and Engineering, 2019, 525, 012087.	0.3	0
157	The research of time dependence polymeric membrane swelling in water with various deuterium content. Journal of Physics: Conference Series, 2019, 1348, 012035.	0.3	0
158	Laser ablation method for the generation of chromium, iron, manganese, nickel, scandium, titanium and vanadium, nanoparticles: control of size and properties. IOP Conference Series: Materials Science and Engineering, 2020, 921, 012024.	0.3	0
159	Investigation of cytotoxic and mechanical properties of polylaÑtide films depending on molecular weight of polymer. Perspektivnye Materialy, 2018, , 39-49.	0.1	0
160	Development of a biocompatible, biodeshipple polymer for medicine and agriculture, able to long-term extract of bioactive substances. Proceedings of the Academy of Sciences, 2019, 489, 152-156.	0.1	0