

Valerij Kozlov

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Synthesis of a Novel, Biocompatible and Bacteriostatic Borosiloxane Composition with Silver Oxide Nanoparticles. <i>Materials</i> , 2022, 15, 527.	2.9	10
2	Antibacterial behavior of organosilicon composite with nano aluminum oxide without influencing animal cells. <i>Reactive and Functional Polymers</i> , 2022, 170, 105143.	4.1	13
3	Stochastic Ultralow-Frequency Oscillations of the Luminescence Intensity from the Surface of a Polymer Membrane Swelling in Aqueous Salt Solutions. <i>Polymers</i> , 2022, 14, 688.	4.5	3
4	Nafion Swelling in Salt Solutions in a Finite Sized Cell: Curious Phenomena Dependent on Sample Preparation Protocol. <i>Polymers</i> , 2022, 14, 1511.	4.5	7
5	Bacteriostatic and Cytotoxic Properties of Composite Material Based on ZnO Nanoparticles in PLGA Obtained by Low Temperature Method. <i>Polymers</i> , 2022, 14, 49.	4.5	15
6	Non-Stationarity Effects in Polymer Membrane Swelling as Studied by Infrared Fourier Spectrometry Technique. <i>Herald of the Bauman Moscow State Technical University, Series Natural Sciences</i> , 2022, , 122-140.	0.5	0
7	Possibility to Alter Dynamics of Luminescence from Surface of Polymer Membrane with Ultrasonic Waves. <i>Polymers</i> , 2022, 14, 2542.	4.5	5
8	Dynamics of Polymer Membrane Swelling in an Aqueous Suspension of Amino Acids. The Role of Isotopic Composition. <i>Physics of Wave Phenomena</i> , 2022, 30, 196-208.	1.1	2
9	Properties and Use of Water Activated by Plasma of Piezoelectric Direct Discharge. <i>Frontiers in Physics</i> , 2021, 8, .	2.1	31
10	Evolution of the Size Distribution of Gold Nanoparticles under Laser Irradiation. <i>Physics of Wave Phenomena</i> , 2021, 29, 102-107.	1.1	10
11	Swelling of Polymer Membrane in an Aqueous Protein Suspension: Photoluminescence Spectroscopy Experiments. <i>Physics of Wave Phenomena</i> , 2021, 29, 123-130.	1.1	4
12	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, 1443.	4.5	12
13	The Role of Shaking of a Liquid Sample in the Dynamics of Polymer Membrane Swelling: A Cell of Limited Volume. <i>Physics of Wave Phenomena</i> , 2021, 29, 114-122.	1.1	2
14	Dynamics of Polymer Membrane Swelling in Aqueous Suspension of Amino-Acids with Different Isotopic Composition; Photoluminescence Spectroscopy Experiments. <i>Polymers</i> , 2021, 13, 2635.	4.5	5
15	A Novel Biodegradable Composite Polymer Material Based on PLGA and Silver Oxide Nanoparticles with Unique Physicochemical Properties and Biocompatibility with Mammalian Cells. <i>Materials</i> , 2021, 14, 6915.	2.9	13
16	Digital Economy: Preconditions, Threats and Prospects. <i>Statistics of Ukraine</i> , 2021, 92, 58-66.	0.3	1
17	Modeling the Response of a Microwave Low-Barrier Uncooled Mott Diode to the Action of Heavy Ions of Outer Space and Femtosecond Laser Pulses. <i>Semiconductors</i> , 2021, 55, 780.	0.5	0
18	Fourier IR Spectroscopy Study of the Effects of Unsteadiness on the Process of Swelling of Polymeric Membranes. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2021, 129, 460-470.	0.6	2

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19	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, 2888.	4.5	11
20	Study of the physicochemical and biological properties of the new promising Tiâ€“20Nbâ€“13Taâ€“5Zr alloy for biomedical applications. <i>Materials Chemistry and Physics</i> , 2020, 255, 123557.	4.0	23
21	New Nanostructured Carbon Coating Inhibits Bacterial Growth, but Does Not Influence on Animal Cells. <i>Nanomaterials</i> , 2020, 10, 2130.	4.1	18
22	Comparison of the Efficiency of Promising Heterostructure Frequency-Multiplier Diodes of the THz-Frequency Range. <i>Semiconductors</i> , 2020, 54, 1360-1364.	0.5	2
23	Characteristics of Protein Aggregation and Flotation in Water and Alcohol-Water Mixture. <i>Physics of Wave Phenomena</i> , 2020, 28, 145-149.	1.1	0
24	Rheological Effects of Polymer Membrane Swelling in Water and Their Dependence on Isotopic Composition. <i>Physics of Wave Phenomena</i> , 2020, 28, 182-186.	1.1	2
25	On Heating and Relaxation of the Electronâ€“Hole-Gas Energy in the Track of a Primary Recoil Atom. <i>Semiconductors</i> , 2020, 54, 946-950.	0.5	1
26	Influence of Fluoropolymer Film Modified With Nanoscale Photoluminophor on Growth and Development of Plants. <i>Frontiers in Physics</i> , 2020, 8, .	2.1	19
27	Shaking-Induced Aggregation and Flotation in Immunoglobulin Dispersions: Differences between Water and Waterâ€“Ethanol Mixtures. <i>ACS Omega</i> , 2020, 5, 14689-14701.	3.5	54
28	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	17
29	Using of Optimization Models in Financial Decision Support Systems. <i>Statistics of Ukraine</i> , 2020, 88, 75-83.	0.3	2
30	Rheological Effects on Swelling of Polymer Membranes in Water. <i>Herald of the Bauman Moscow State Technical University, Series Natural Sciences</i> , 2020, , 36-47.	0.5	0
31	Impact of the Potential of Scattering at Radiation-Induced Defects on Carrier Transport in GaAs Structures. <i>Semiconductors</i> , 2020, 54, 1134-1140.	0.5	0
32	Simulation of the Formation of a Cascade of Displacements and Transient Ionization Processes in Silicon Semiconductor Structures under Neutron Exposure. <i>Semiconductors</i> , 2019, 53, 1249-1254.	0.5	4
33	Comparison of the Radiation Resistance of Prospective Bipolar and Heterobipolar Transistors. <i>Semiconductors</i> , 2019, 53, 1353-1356.	0.5	0
34	The Physical Nature of Mesoscopic Inhomogeneities in Highly Diluted Aqueous Suspensions of Protein Particles. <i>Physics of Wave Phenomena</i> , 2019, 27, 102-112.	1.1	24
35	Study of the luminescence from polymeric membrane swollen in water with various content of deuterium; isotopic effects. <i>Journal of Physics: Conference Series</i> , 2019, 1348, 012030.	0.4	2
36	The research of time dependence polymeric membrane swelling in water with various deuterium content. <i>Journal of Physics: Conference Series</i> , 2019, 1348, 012035.	0.4	0

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37	Laser Photoluminescence Spectroscopy of the Subsurface Microstructure in a Nafion Polymer Membrane in Deuterated Water. Herald of the Bauman Moscow State Technical University, Series Natural Sciences, 2019, , 48-65.	0.5	1
38	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.	3.6	38
39	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.	0.6	5
40	Near-surface structure of Nafion in deuterated water. Journal of Chemical Physics, 2018, 149, 164901.	3.0	32
41	Dynamics of Nafion membrane swelling in H ₂ O/D ₂ O mixtures as studied using FTIR technique. Journal of Chemical Physics, 2018, 148, 124901.	3.0	18
42	Suppression of the coalescence of gas bubbles in aqueous electrolyte solutions: dependence on the external pressure and velocity of gas flow through a column with liquid. Physics of Wave Phenomena, 2017, 25, 219-224.	1.1	5
43	Study of Suppression of Gas Bubbles Coalescence in the Liquid for Use in Technologies of Oil Production and Associated Gas Utilization. , 2017, , .		4
44	Time dependence of the luminescence from a polymer membrane swollen in water: Concentration and isotopic effects. Physics of Wave Phenomena, 2017, 25, 259-271.	1.1	8
45	Microwave-signal generation in a planar Gunn diode with radiation exposure taken into account. Semiconductors, 2016, 50, 1579-1583.	0.5	1
46	Investigation of the phase states of aqueous salt solutions near a polymer membrane surface. Physics of Wave Phenomena, 2015, 23, 255-264.	1.1	2
47	Phase states of water near the surface of a polymer membrane. Phase microscopy and luminescence spectroscopy experiments. Journal of Experimental and Theoretical Physics, 2014, 119, 924-932.	0.9	10
48	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.	2.2	13
49	Colloidal Crystal Formation at the "Nafion"Water Interface. Journal of Physical Chemistry B, 2014, 118, 3372-3377.	2.6	34
50	Cluster Structure of Dissolved Gas Nanobubbles in Ionic Aqueous Solutions. Journal of Chemical & Engineering Data, 2012, 57, 2823-2831.	1.9	11
51	Control of the tunnel current flowing though nonuniform heterogeneous barriers with spherically symmetric inclusions. Journal of Surface Investigation, 2012, 6, 726-729.	0.5	0
52	Refraction coefficient of water and aqueous solutions in the optical frequency range in the vicinity of Nafion. Biophysics (Russian Federation), 2012, 57, 733-749.	0.7	3
53	Natural fluctuations in tunneling-current distribution over the area of a reverse-biased silicon p-n junction. Semiconductors, 2012, 46, 130-135.	0.5	2
54	Long-living nanobubbles of dissolved gas in aqueous solutions of salts and erythrocyte suspensions. Journal of Biophotonics, 2011, 4, 150-164.	2.3	51

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55	Electrical and luminescence properties of silicon-based tunnel transit-time light-emitting diodes p +/n +/n-Si:Er. Semiconductors, 2010, 44, 1486-1491.	0.5	2
56	Tunneling electron transport through heterobarriers with nanometer heterogeneities. Semiconductors, 2010, 44, 1499-1503.	0.5	1
57	Laser scattering in water and aqueous solutions of salts. Proceedings of SPIE, 2010, , .	0.8	14
58	Transit-time frequency quantum beats and THz negative conductance in nanoscale semiconductor heterostructures. Bulletin of the Russian Academy of Sciences: Physics, 2009, 73, 80-83.	0.6	0
59	Terahertz negative conductivity of heterostructure barriers during ballistic transport of hot electrons. Bulletin of the Russian Academy of Sciences: Physics, 2007, 71, 109-112.	0.6	0
60	Quantum-aperture formation in a quasi-ballistic MESFET by neutron irradiation. Russian Microelectronics, 2005, 34, 359-364.	0.5	3
61	Photoinduced Short-Lived Absorption in PbWO4:Nb Scintillation Crystals. Atomic Energy, 2001, 90, 300-303.	0.4	2
62	Generation of electromagnetic radiation in the motion of vortices in magnetically coupled superconducting films. Journal of Experimental and Theoretical Physics, 1998, 86, 720-730.	0.9	1