

I N Burmistrov

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	High-k Three-Phase Epoxy/K1.6(Ni0.8Ti7.2)O16/CNT Composites with Synergetic Effect. <i>Polymers</i> , 2022, 14, 448.	4.5	8
2	Red Mud as a Secondary Resource of Low-Grade Iron: A Global Perspective. <i>Sustainability</i> , 2022, 14, 1258.	3.2	17
3	Electrolyte concentration dependences of NiO based thermoelectrochemical cells performance. AIP Conference Proceedings, 2022, , .	0.4	1
4	Environmental Sustainability of Current Waste Management Practices. <i>Sustainability</i> , 2022, 14, 2321.	3.2	0
5	Synthesis of the hollandite-like copper doped potassium titanate high-k ceramics. <i>Ceramics International</i> , 2021, 47, 5721-5729.	4.8	16
6	Harvesting Waste Thermal Energy Using a Surface-Modified Carbon Fiber-Based Thermo-Electrochemical Cell. <i>Sustainability</i> , 2021, 13, 1377.	3.2	14
7	Synthesis and study of the composition of hollow microspheres of composition NiO and NiO / Ni for thermoelectrochemical energy converters of low-potential temperature gradients of thermal aggregates into electricity. <i>Novye Ogneupory (new Refractories)</i> , 2021, , 49-53.	0.1	0
8	Influence of Ni / NiO Ratio on the Performance of Thermoelectrochemical Waste Heat Harvester Based on Hollow Microspheres. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1079, 052070.	0.6	0
9	Synthesis and Study of the Composition of Hollow Microspheres of NiO and NiO/Ni Composition for Thermoelectrochemical Energy Converters of Low-Potential Temperature Gradients of Thermal Units Into Electricity. <i>Refractories and Industrial Ceramics</i> , 2021, 61, 715-719.	0.6	5
10	Increasing electrical conductivity of PMMA-MWCNT composites by gas phase iodination. <i>Composites Science and Technology</i> , 2021, 214, 108972.	7.8	7
11	An innovative route for valorising iron and aluminium oxide rich industrial wastes: Recovery of multiple metals. <i>Journal of Environmental Management</i> , 2021, 295, 113035.	7.8	22
12	Impact of Iron on the Fe-Co-Ni Ternary Nanocomposites Structural and Magnetic Features Obtained via Chemical Precipitation Followed by Reduction Process for Various Magnetically Coupled Devices Applications. <i>Nanomaterials</i> , 2021, 11, 341.	4.1	7
13	An Overview on Solid Waste Generation and Management: Current Status in Chile. <i>Sustainability</i> , 2021, 13, 11644.	3.2	8
14	Production and Investigation of a Finely Dispersed Fraction of Blast-Furnace Granulated Slag for Use as Components of Clinker-Free Binders. <i>Refractories and Industrial Ceramics</i> , 2021, 62, 347-354.	0.6	2
15	Preparation of Hollow Spherical Particles of Strontium Ferrite SrFe12O19 by Spray-Pyrolysis. <i>Refractories and Industrial Ceramics</i> , 2021, 62, 483.	0.6	0
16	Polymer composites based on epoxy resin with added carbon nanotubes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2020, 28, 45-49.	2.1	6
17	Utilization of nickel-electroplating wastewaters in manufacturing of photocatalysts for water purification. <i>Chemical Engineering Research and Design</i> , 2020, 134, 208-216.	5.6	8
18	Polytetrafluorethylene-based high-k composites with low dielectric loss filled with priderite (K 1.46 Ti) Tj ETQq0.0.0 rgBT /Overlock 1	2.6	7

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19	FT-IR in situ thermoelectrochemical cell for electrode kinetics study. Journal of Physics: Conference Series, 2020, 1652, 012029.	0.4	0
20	High seebeck coefficient thermo-electrochemical cell using nickel hollow microspheres electrodes. Renewable Energy, 2020, 157, 1-8.	8.9	32
21	Data on the current-voltage dependents of nickel hollow microspheres based thermo-electrochemical in alkaline electrolyte. Data in Brief, 2020, 31, 105770.	1.0	2
22	Sorbent Based on Polyvinyl Butyral and Potassium Polytitanate for Purifying Wastewater from Heavy Metal Ions. Processes, 2020, 8, 690.	2.8	6
23	Spark Plasma Sintering of Cobalt Powders in Conjunction with High Energy Mechanical Treatment and Nanomodification. Processes, 2020, 8, 627.	2.8	8
24	Wastewater Treatment from Lead and Strontium by Potassium Polytitanates: Kinetic Analysis and Adsorption Mechanism. Processes, 2020, 8, 217.	2.8	10
25	Partially Oxidized Ti ₃ C ₂ T _x MXenes for Fast and Selective Detection of Organic Vapors at Part-per-Million Concentrations. ACS Applied Nano Materials, 2020, 3, 3195-3204.	5.0	66
26	Synthesis and properties of nanocomposites in the system of potassium polytitanate - layered double hydroxide. Journal of Materials Research and Technology, 2020, 9, 3924-3934.	5.8	7
27	Electric Power Supply of Wireless Sensors by Thermo-Electrochemical Cells. , 2019, , .		1
28	Heat-Reflecting Ceramic Materials Based on Potassium Polytitanate and Silicon Oxide. Refractories and Industrial Ceramics, 2019, 59, 663-666.	0.6	0
29	Enhancement of Percolation Threshold by Controlling the Structure of Composites Based on Nanostructured Carbon Filler. Journal of Electronic Materials, 2019, 48, 5111-5118.	2.2	10
30	Development of new electrode materials for thermo-electrochemical cells for waste heat harvesting. Renewable Energy Focus, 2019, 29, 42-48.	4.5	23
31	Structure and electrical conductivity of heat treated iodine-doped multi-walled carbon nanotubes. IOP Conference Series: Materials Science and Engineering, 2019, 693, 012019.	0.6	2
32	Using Thermoelectrics for Power Supplying of Wireless Sensors Network. , 2019, , .		3
33	ENHANCEMENT OF MECHANICAL AND ELECTRICAL PROPERTIES OF EPOXY-BASED COMPOSITES FILLED WITH INTACT OR OXIDIZED CARBON NANOTUBES. Composites: Mechanics, Computations, Applications, 2019, 10, 241-251.	0.3	3
34	Research of Efficiency Dependence of Thermoelectrochemicals of Electrolyte Concentration. Electrochemical Energetics, 2019, 19, 212-222.	0.2	0
35	Dielectric properties of the polymer matrix composites based on the system of Co-modified potassium titanate polytetrafluorethylene. Journal of Composite Materials, 2018, 52, 135-144.	2.4	19
36	Effect of Finely Dispersed Chromite on the Physicochemical and Mechanical Properties of Modified Epoxy Composites. Russian Journal of Applied Chemistry, 2018, 91, 1758-1766.	0.5	22

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37	Heat-reflecting ceramic materials based on potassium poly-titanate and silicon oxide.. Novye Ogneupory (new Refractories), 2018, , 54-57.	0.1	0
38	Mechanical and electrical properties of ethylene-1-octene and polypropylene composites filled with carbon nanotubes. Composites Science and Technology, 2017, 147, 71-77.	7.8	23
39	Lead-Titanate-Based Ceramics That Protect Against Gamma Radiation. Refractories and Industrial Ceramics, 2017, 57, 661-664.	0.6	2
40	Current state and perspectives for organo-halide perovskite solar cells. Part 1. Crystal structures and thin film formation, morphology, processing, degradation, stability improvement by carbon nanotubes. A review. Modern Electronic Materials, 2017, 3, 1-25.	0.6	29
41	Development of acrylate-based polymeric layers for fireproof laminated glass. AIP Conference Proceedings, 2017, , .	0.4	2
42	Preparation of Basalt Incorporated Polyethylene Composite with Enhanced Mechanical Properties for Various Applications. MATEC Web of Conferences, 2017, 96, 00003.	0.2	3
43	Thermo-electrochemical cells based on polymer and mineral hydrogels for low-grade waste heat conversion. AIP Conference Proceedings, 2017, , .	0.4	2
44	The Room-Temperature Chemiresistive Properties of Potassium Titanate Whiskers versus Organic Vapors. Nanomaterials, 2017, 7, 455.	4.1	4
45	The Potentiodynamic Bottom-up Growth of the Tin Oxide Nanostructured Layer for Gas-Analytical Multisensor Array Chips. Sensors, 2017, 17, 1908.	3.8	11
46	Simulation of hydrogen adsorption on carbon nanotubes with different chirality parameters. IOP Conference Series: Materials Science and Engineering, 2016, 112, 012006.	0.6	1
47	High-Temperature Engineering Ceramic Based on Complex Titanates Having a Hollandite Structure. Refractories and Industrial Ceramics, 2016, 57, 413-416.	0.6	5
48	The effects of liquid-phase oxidation of multiwall carbon nanotubes on their surface characteristics. IOP Conference Series: Materials Science and Engineering, 2016, 112, 012004.	0.6	3
49	Improvement of carbon black based polymer composite electrical conductivity with additions of MWCNT. Composites Science and Technology, 2016, 129, 79-85.	7.8	72
50	Studying dispersions of ferroelectric nanopowders in dioctyl phthalate as dielectric media for capacitive electronic components. Technical Physics Letters, 2016, 42, 659-662.	0.7	0
51	Potassium layered polytitanates influence on low-pressure polyethylene properties in wide concentrations range. AIP Conference Proceedings, 2016, , .	0.4	0
52	Secondary polyvinyl butyral modified with potassium polytitanate for coatings with improved mechanical properties. AIP Conference Proceedings, 2016, , .	0.4	2
53	Investigation of mechanical properties of masterbatches and composites with small additions of CNTs. IOP Conference Series: Materials Science and Engineering, 2016, 112, 012019.	0.6	0
54	Room temperature gas sensing with potassium titanate nanowires. , 2015, , .		1

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55	Thermal conductivity of polypropylene composites filled with silane-modified hexagonal BN. Composites Science and Technology, 2015, 111, 40-43.	7.8	120
56	Use of modified nanoparticles of potassium polytitanate and physical methods of modification of epoxy compositions for improving their operational properties. Russian Journal of Applied Chemistry, 2015, 88, 129-137.	0.5	21
57	A new gas-analytical device concept via implementation of impedance spectroscopy. , 2015, , .		0
58	Potassium polytitanate gas-sensor study by impedance spectroscopy. Analytica Chimica Acta, 2015, 897, 81-86.	5.4	27
59	Development of a fibrous potassium polytitanate. Theoretical Foundations of Chemical Engineering, 2015, 49, 485-489.	0.7	5
60	Synthesis and characterization of high-strength ceramic composites in the system of potassium titanate " Metallurgical slag. Ceramics International, 2015, 41, 13294-13303.	4.8	12
61	Anisotropic thermal conductivity of polypropylene composites filled with carbon fibers and multiwall carbon nanotubes. Polymer Composites, 2015, 36, 1951-1957.	4.6	37
62	Impedance spectroscopy study of a response of potassium polytitanate based gas sensor. , 2014, , .		0
63	Mechanical properties of (surface"modified potassium polytitanate small additives)/epoxy composite materials. Polymer Engineering and Science, 2014, 54, 2866-2871.	3.1	19
64	Influence of surface modification of potassium polytitanates on the mechanical properties of polymer composites thereof. Russian Journal of Applied Chemistry, 2013, 86, 765-771.	0.5	16
65	Analysis of the effect of preparation conditions for potassium polytitanates on their morphological properties. Refractories and Industrial Ceramics, 2012, 52, 393-397.	0.6	14
66	Development of a procedure for modifying nanomaterials of mullite-corundum mixes in equipment with a high-intensity rotating electromagnetic field. Refractories and Industrial Ceramics, 2012, 53, 54-58.	0.6	6
67	Study of cross-linking parameters of polyacrylic acid hydrogels. Russian Journal of Applied Chemistry, 2011, 84, 1920-1923.	0.5	2
68	Influence of compaction conditions on the structure and mechanical properties of potassium hexatitanate based ceramics. Technical Physics Letters, 2010, 36, 37-39.	0.7	11
69	Heat-insulating material based on cullet subjected to mechanochemical activation. Glass and Ceramics (English Translation of Steklo I Keramika), 2010, 67, 6-9.	0.6	3
70	A Study of the Polymerisation Temperature of Hydrogel and the Properties of the Copolymers Synthesised. International Polymer Science and Technology, 2009, 36, 53-56.	0.1	3
71	Acrylate Hydrogel Modification Using a Cross-Linking Agent for Increasing Multilayer Glazing Flame Resistance. Advanced Materials Research, 0, 1085, 265-269.	0.3	4