

I N Burmistrov

List of Publications by Year in descending order

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71
papers

802
citations

567281

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552781

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73
all docs

73
docs citations

73
times ranked

881
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal conductivity of polypropylene composites filled with silane-modified hexagonal BN. Composites Science and Technology, 2015, 111, 40-43.	7.8	120
2	Improvement of carbon black based polymer composite electrical conductivity with additions of MWCNT. Composites Science and Technology, 2016, 129, 79-85.	7.8	72
3	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
4	Anisotropic thermal conductivity of polypropylene composites filled with carbon fibers and multiwall carbon nanotubes. Polymer Composites, 2015, 36, 1951-1957.	4.6	37
5	High seebeck coefficient thermo-electrochemical cell using nickel hollow microspheres electrodes. Renewable Energy, 2020, 157, 1-8.	8.9	32
6	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
7	Potassium polytitanate gas-sensor study by impedance spectroscopy. Analytica Chimica Acta, 2015, 897, 81-86.	5.4	27
8	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
9	Development of new electrode materials for thermo-electrochemical cells for waste heat harvesting. Renewable Energy Focus, 2019, 29, 42-48.	4.5	23
10	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
11	An innovative route for valorising iron and aluminium oxide rich industrial wastes: Recovery of multiple metals. Journal of Environmental Management, 2021, 295, 113035.	7.8	22
12	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
13	Mechanical properties of (surface-modified potassium polytitanate small additives)/epoxy composite materials. Polymer Engineering and Science, 2014, 54, 2866-2871.	3.1	19
14	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
15	Red Mud as a Secondary Resource of Low-Grade Iron: A Global Perspective. Sustainability, 2022, 14, 1258.	3.2	17
16	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
17	Synthesis of the hollandite-like copper doped potassium titanate high-k ceramics. Ceramics International, 2021, 47, 5721-5729.	4.8	16
18	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

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19	Harvesting Waste Thermal Energy Using a Surface-Modified Carbon Fiber-Based Thermo-Electrochemical Cell. Sustainability, 2021, 13, 1377.	3.2	14
20	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
21	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
22	The Potentiodynamic Bottom-up Growth of the Tin Oxide Nanostructured Layer for Gas-Analytical Multisensor Array Chips. Sensors, 2017, 17, 1908.	3.8	11
23	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
24	Wastewater Treatment from Lead and Strontium by Potassium Polytitanates: Kinetic Analysis and Adsorption Mechanism. Processes, 2020, 8, 217.	2.8	10
25	Utilization of nickel-electroplating wastewaters in manufacturing of photocatalysts for water purification. Chemical Engineering Research and Design, 2020, 134, 208-216.	5.6	8
26	Spark Plasma Sintering of Cobalt Powders in Conjunction with High Energy Mechanical Treatment and Nanomodification. Processes, 2020, 8, 627.	2.8	8
27	An Overview on Solid Waste Generation and Management: Current Status in Chile. Sustainability, 2021, 13, 11644.	3.2	8
28	High-k Three-Phase Epoxy/K1.6(Ni0.8Ti7.2)O16/CNT Composites with Synergetic Effect. Polymers, 2022, 14, 448.	4.5	8
29	Polytetrafluorethylene-based high-k composites with low dielectric loss filled with priderite (K 1.46 Ti) Tj ETQq1,1,0.784314 rgBT /Dv	2.6	7
30	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
31	Increasing electrical conductivity of PMMA-MWCNT composites by gas phase iodination. Composites Science and Technology, 2021, 214, 108972.	7.8	7
32	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. Nanomaterials, 2021, 11, 341.	4.1	7
33	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
34	Polymer composites based on epoxy resin with added carbon nanotubes. Fullerenes Nanotubes and Carbon Nanostructures, 2020, 28, 45-49.	2.1	6
35	Sorbent Based on Polyvinyl Butyral and Potassium Polytitanate for Purifying Wastewater from Heavy Metal Ions. Processes, 2020, 8, 690.	2.8	6
36	Development of a fibrous potassium polytitanate. Theoretical Foundations of Chemical Engineering, 2015, 49, 485-489.	0.7	5

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37	High-Temperature Engineering Ceramic Based on Complex Titanates Having a Hollandite Structure. <i>Refractories and Industrial Ceramics</i> , 2016, 57, 413-416.	0.6	5
38	Synthesis and Study of the Composition of Hollow Microspheres of NiO and NiO/Ni Composition for Thermochemical 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
39	Acrylate Hydrogel Modification Using a Cross-Linking Agent for Increasing Multilayer Glazing Flame Resistance. <i>Advanced Materials Research</i> , 0, 1085, 265-269.	0.3	4
40	The Room-Temperature Chemiresistive Properties of Potassium Titanate Whiskers versus Organic Vapors. <i>Nanomaterials</i> , 2017, 7, 455.	4.1	4
41	A Study of the Polymerisation Temperature of Hydrogel and the Properties of the Copolymers Synthesised. <i>International Polymer Science and Technology</i> , 2009, 36, 53-56.	0.1	3
42	Heat-insulating material based on cullet subjected to mechanochemical activation. <i>Glass and Ceramics (English Translation of Steklo I Keramika)</i> , 2010, 67, 6-9.	0.6	3
43	The effects of liquid-phase oxidation of multiwall carbon nanotubes on their surface characteristics. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 112, 012004.	0.6	3
44	Preparation of Basalt Incorporated Polyethylene Composite with Enhanced Mechanical Properties for Various Applications. <i>MATEC Web of Conferences</i> , 2017, 96, 00003.	0.2	3
45	Using Thermoelectrics for Power Supplying of Wireless Sensors Network. , 2019, , .		3
46	ENHANCEMENT OF MECHANICAL AND ELECTRICAL PROPERTIES OF EPOXY-BASED COMPOSITES FILLED WITH INTACT OR OXIDIZED CARBON NANOTUBES. <i>Composites: Mechanics, Computations, Applications</i> , 2019, 10, 241-251.	0.3	3
47	Study of cross-linking parameters of polyacrylic acid hydrogels. <i>Russian Journal of Applied Chemistry</i> , 2011, 84, 1920-1923.	0.5	2
48	Secondary polyvinyl butyral modified with potassium polytitanate for coatings with improved mechanical properties. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	2
49	Lead-Titanate-Based Ceramics That Protect Against Gamma Radiation. <i>Refractories and Industrial Ceramics</i> , 2017, 57, 661-664.	0.6	2
50	Development of acrylate-based polymeric layers for fireproof laminated glass. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	2
51	Thermo-electrochemical cells based on polymer and mineral hydrogels for low-grade waste heat conversion. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	2
52	Structure and electrical conductivity of heat treated iodine-doped multi-walled carbon nanotubes. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 693, 012019.	0.6	2
53	Data on the current-voltage dependents of nickel hollow microspheres based thermo-electrochemical in alkaline electrolyte. <i>Data in Brief</i> , 2020, 31, 105770.	1.0	2
54	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

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55	Room temperature gas sensing with potassium titanate nanowires. , 2015, , .		1
56	Simulation of hydrogen adsorption on carbon nanotubes with different chirality parameters. IOP Conference Series: Materials Science and Engineering, 2016, 112, 012006.	0.6	1
57	Electric Power Supply of Wireless Sensors by Thermo-Electrochemical Cells. , 2019, , .		1
58	Electrolyte concentration dependences of NiO based thermoelectrochemical cells performance. AIP Conference Proceedings, 2022, , .	0.4	1
59	Impedance spectroscopy study of a response of potassium polytitanate based gas sensor. , 2014, , .		0
60	A new gas-analytical device concept via implementation of impedance spectroscopy. , 2015, , .		0
61	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
62	Potassium layered polytitanates influence on low-pressure polyethylene properties in wide concentrations range. AIP Conference Proceedings, 2016, , .	0.4	0
63	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
64	Heat-Reflecting Ceramic Materials Based on Potassium Polytitanate and Silicon Oxide. Refractories and Industrial Ceramics, 2019, 59, 663-666.	0.6	0
65	FT-IR in situ thermoelectrochemical cell for electrode kinetics study. Journal of Physics: Conference Series, 2020, 1652, 012029.	0.4	0
66	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. Novye Ogneupory (new Refractories), 2021, , 49-53.	0.1	0
67	Influence of Ni / NiO Ratio on the Performance of Thermoelectrochemical Waste Heat Harvester Based on Hollow Microspheres. IOP Conference Series: Materials Science and Engineering, 2021, 1079, 052070.	0.6	0
68	Heat-reflecting ceramic materials based on potassium poly-titanate and silicon oxide.. Novye Ogneupory (new Refractories), 2018, , 54-57.	0.1	0
69	Research of Efficiency Dependence of Thermoelectrochemicals of Electrolyte Concentration. Electrochemical Energetics, 2019, 19, 212-222.	0.2	0
70	Preparation of Hollow Spherical Particles of Strontium Ferrite SrFe12O19 by Spray-Pyrolysis. Refractories and Industrial Ceramics, 2021, 62, 483.	0.6	0
71	Environmental Sustainability of Current Waste Management Practices. Sustainability, 2022, 14, 2321.	3.2	0