

Mikhail Gorshenkov

List of Publications by Year in descending order

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73
papers

1,257
citations

331538

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434063

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all docs

74
docs citations

74
times ranked

1461
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface modification of carbon fibers and its effect on the fiber-matrix interaction of UHMWPE based composites. Journal of Alloys and Compounds, 2014, 586, S459-S463.	2.8	58
2	Hollow NiCo ₂ O ₄ nano-spheres obtained by ultrasonic spray pyrolysis method with superior electrochemical performance for lithium-ion batteries and supercapacitors. Journal of Industrial and Engineering Chemistry, 2018, 59, 90-98.	2.9	57
3	Radiation-protective polymer-matrix nanostructured composites. Journal of Alloys and Compounds, 2012, 536, S522-S526.	2.8	55
4	Rapid preparation of In _x Co ₄ Sb ₁₂ with a record-breaking <i>ZT</i> = 1.5: the role of the In overfilling fraction limit and Sb overstoichiometry. Journal of Materials Chemistry A, 2017, 5, 3541-3546.	5.2	55
5	Ultra-high molecular weight polyethylene reinforced with multi-walled carbon nanotubes: Fabrication method and properties. Journal of Alloys and Compounds, 2012, 536, S538-S540.	2.8	54
6	Size and morphology-controlled synthesis of mesoporous hydroxyapatite nanocrystals by microwave-assisted hydrothermal method. Ceramics International, 2018, 44, 11257-11264.	2.3	54
7	Hollow mesoporous heterostructures negative electrode comprised of CoFe ₂ O ₄ @Fe ₃ O ₄ for next generation lithium ion batteries. Microporous and Mesoporous Materials, 2018, 272, 1-7.	2.2	48
8	Formation of intermetallic Ni-Al coatings by mechanical alloying on the different hardness substrates. Journal of Alloys and Compounds, 2014, 586, S373-S376.	2.8	43
9	Reinforcement of bulk ultrahigh molecular weight polyethylene by fluorinated carbon nanotubes insertion followed by hot pressing and orientation stretching. Composites Science and Technology, 2015, 120, 26-31.	3.8	39
10	On the state of boride precipitates in grain refined TiAl-based alloys with high Nb content. Journal of Alloys and Compounds, 2014, 586, S153-S158.	2.8	35
11	Strength, corrosion resistance, and biocompatibility of ultrafine-grained Mg alloys after different modes of severe plastic deformation. IOP Conference Series: Materials Science and Engineering, 2017, 194, 012004.	0.3	33
12	Fractographic analysis of composites based on ultra high molecular weight polyethylene. Composites Part B: Engineering, 2014, 56, 869-875.	5.9	31
13	Enhanced thermoelectric figure of merit of p-type Si _{0.8} Ge _{0.2} nanostructured spark plasma sintered alloys with embedded SiO ₂ nanoinclusions. Scripta Materialia, 2017, 127, 63-67.	2.6	31
14	CHARGE SPECTRUM OF HEAVY AND SUPERHEAVY COMPONENTS OF GALACTIC COSMIC RAYS: RESULTS OF THE OLIMPIYA EXPERIMENT. Astrophysical Journal, 2016, 829, 120.	1.6	28
15	Mechanical alloying of nanocrystalline intermetallic compound TiFe doped with sulfur and magnesium. Journal of Alloys and Compounds, 2014, 615, S569-S572.	2.8	27
16	Lanthanum hexaboride as advanced structural refiner/getter in TiAl-based refractory intermetallics. Journal of Alloys and Compounds, 2014, 588, 122-126.	2.8	27
17	Biocompatible polymer composites based on ultrahigh molecular weight polyethylene perspective for cartilage defects replacement. Journal of Alloys and Compounds, 2014, 586, S544-S547.	2.8	27
18	Structure and magnetic properties of Fe-Cr-Co nanocrystalline alloys for permanent magnets. Journal of Alloys and Compounds, 2014, 586, S291-S293.	2.8	26

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19	Electron microscopy investigation of interface between carbon fiber and ultra high molecular weight polyethylene. <i>Journal of Alloys and Compounds</i> , 2014, 586, S168-S172.	2.8	23
20	Dry sliding friction of Al-based composites reinforced with various boron-containing particles. <i>Journal of Alloys and Compounds</i> , 2012, 536, S126-S129.	2.8	22
21	Microstructure and properties of composite materials based on UHMWPE after mechanical activation. <i>Journal of Alloys and Compounds</i> , 2014, 615, S573-S577.	2.8	22
22	Calorimetric study of peculiar hydrogenation behavior of nanocrystalline TiFe. <i>Journal of Alloys and Compounds</i> , 2016, 688, 1181-1185.	2.8	22
23	Multilayer σ -Steel/Vanadium Alloy/Steel-Hybrid Material Obtained by High-Pressure Torsion at Different Temperatures. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 6091-6101.	1.1	22
24	ZnO/Cu ₂ MgO ₃ hollow porous nanocage: A new class of hybrid anode material for advanced lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2018, 763, 94-101.	2.8	22
25	Microstructure engineering of TiAl-based refractory intermetallics within power-down directional solidification process. <i>Journal of Alloys and Compounds</i> , 2014, 586, S180-S183.	2.8	20
26	Hollow (Co _{0.62} Fe _{1.38})FeO ₄ /NiCo ₂ O ₄ nanoboxes with porous shell synthesized via chemical precipitation: A novel form as a high performance lithium ion battery anode. <i>Microporous and Mesoporous Materials</i> , 2017, 247, 9-15.	2.2	18
27	One-pot ultrasonic spray pyrolysis mediated hollow Mg _{0.25} Cu _{0.25} Zn _{0.5} Fe ₂ O ₄ /NiFe ₂ O ₄ nanocomposites: A promising anode material for high-performance lithium-ion battery. <i>Journal of Alloys and Compounds</i> , 2017, 725, 665-672.	2.8	18
28	New insights into solidification and phase equilibria in the Al-Al ₃ Zr system: Theoretical and experimental investigations. <i>Journal of Alloys and Compounds</i> , 2018, 743, 626-638.	2.8	18
29	Ti-Ag-Pd alloy with good mechanical properties and high potential for biological applications. <i>Scientific Reports</i> , 2016, 6, 25142.	1.6	17
30	The effect of Cr and Zr on the structure and phase composition of TNM gamma titanium aluminide alloy. <i>Intermetallics</i> , 2017, 84, 121-129.	1.8	16
31	Resistance of alloy Zr-2.5% Nb with ultrafine-grain structure to stress corrosion cracking. <i>Metal Science and Heat Treatment</i> , 2012, 54, 407-413.	0.2	15
32	Effect of torsion conditions under high pressure on the structure and strengthening of the Zr-1% Nb alloy. <i>Physics of Metals and Metallography</i> , 2016, 117, 371-377.	0.3	15
33	Thermoelectric properties and cost optimization of spark plasma sintered n-type Si _{0.9} Ge _{0.1} - Mg ₂ Si nanocomposites. <i>Scripta Materialia</i> , 2018, 146, 295-299.	2.6	15
34	Analysis of the effect of preparation conditions for potassium polytitanates on their morphological properties. <i>Refractories and Industrial Ceramics</i> , 2012, 52, 393-397.	0.2	14
35	Negative Electrode Comprised of Nanostructured CuO for Advanced Lithium Ion Batteries. <i>Journal of Cluster Science</i> , 2017, 28, 1595-1604.	1.7	14
36	Hollow Cu _{0.10} Mg _{0.40} Zn _{0.50} Fe ₂ O ₄ /Ca ₂ Ni ₅ nanocomposite: A novel form as anode material in lithium-ion battery. <i>Journal of Alloys and Compounds</i> , 2017, 710, 501-509.	2.8	14

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37	Application of microstructured intermetallides in turbine manufacture. Part 1: Present state and prospects (a review). <i>Inorganic Materials: Applied Research</i> , 2013, 4, 12-20.	0.1	13
38	Ascorbic Acid-Assisted Eco-friendly Synthesis of NiCo ₂ O ₄ Nanoparticles as an Anode Material for High-Performance Lithium-Ion Batteries. <i>Jom</i> , 2018, 70, 1416-1422.	0.9	12
39	A Comparison of "Bottom-Up" and "Top-Down" Approaches to the Synthesis of Pt/C Electrocatalysts. <i>Processes</i> , 2020, 8, 947.	1.3	11
40	Decagonal quasicrystalline phase in as-cast and mechanically alloyed Al-Cu-Cr alloys. <i>Journal of Alloys and Compounds</i> , 2014, 586, S391-S394.	2.8	10
41	Novel <i>Leea grandifolia</i> leaves mediated synthesis of ZnO nanorods for photocatalytic and anticancer applications. <i>Applied Organometallic Chemistry</i> , 2021, 35, e6239.	1.7	10
42	Photons transport through ultra-high molecular weight polyethylene based composite containing tungsten and boron carbide fillers. <i>Journal of Alloys and Compounds</i> , 2014, 586, S455-S458.	2.8	9
43	Amorphous silica nanoparticles derived from biowaste via microwave combustion for drug delivery. <i>International Journal of Applied Ceramic Technology</i> , 2021, 18, 583-589.	1.1	9
44	Synthesis of phase-pure highly-doped MAX-phase (Cr _{1-x} Mn _x) ₂ AlC. <i>Ceramics International</i> , 2021, 47, 21069-21076.	2.3	9
45	Anticancer and photocatalytic activities of zinc oxide nanorods synthesized from Manilkara littoralis leaf extract. <i>Materials Chemistry and Physics</i> , 2022, 277, 125541.	2.0	9
46	Application of microstructured intermetallides in turbine manufacture. Part 2: Problems in development of heat-resistant alloys based on TiAl (a review). <i>Inorganic Materials: Applied Research</i> , 2013, 4, 36-45.	0.1	8
47	Thermoelectric Properties of n-Type Si _{0.8} Ge _{0.2} -FeSi ₂ Multiphase Nanostructures. <i>Journal of Electronic Materials</i> , 2016, 45, 3427-3432.	1.0	8
48	Transformation of the lamellar structure into nanofibrillar structure in the bulk oriented ultra high molecular weight polyethylene: mechanical and tribological properties. <i>Mendeleev Communications</i> , 2016, 26, 350-352.	0.6	8
49	The Effect of the Rate of Cooling from High-Temperature Single-Phase Region on the Microstructure and Magnetic Properties of AlNi Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 656-664.	1.1	7
50	Mechanical Properties, Fatigue Life, and Electrical Conductivity of Cu-Cr-Hf Alloy after Equal Channel Angular Pressing. <i>Advanced Engineering Materials</i> , 2018, 20, 1700536.	1.6	7
51	Structural Aspects of Deformational Amorphization of Ti ₅₀ Ni ₂₅ Cu ₂₅ Crystalline Alloy under High Pressure Torsion. <i>Physics of the Solid State</i> , 2018, 60, 1168-1172.	0.2	7
52	Microstructure, Phase Composition, and Thermal Stability of Two Zirconium Alloys Subjected to High-Pressure Torsion at Different Temperatures. <i>Advanced Engineering Materials</i> , 2018, 20, 1800151.	1.6	7
53	High-temperature dilatometry of Ti-46Al-8Nb refractory alloy. <i>Russian Metallurgy (Metally)</i> , 2013, 2013, 528-534.	0.1	6
54	Tailored microstructure creation of TiAl-based refractory alloys within VGF solidification. <i>Materials Chemistry and Physics</i> , 2013, 141, 643-650.	2.0	6

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55	Effect of $\hat{1}^3$ -(Fe,Ni) crystal-size stabilization in Fe $\hat{1}$ –Ni $\hat{1}$ –B amorphous ribbon. Physics of Metals and Metallography, 2017, 118, 176-182.	0.3	6
56	Structure and mechanical properties of Ti-Based alloys containing Ag subjected to a thermomechanical treatment. Journal of Alloys and Compounds, 2019, 781, 1182-1188.	2.8	5
57	Structure and properties of high damping Fe-Ga based alloy. Metallic Materials, 2016, 53, 267-274.	0.2	5
58	Magnetic Properties of Nd and Sm Rare-Earth Metals After Severe Plastic Deformation. IEEE Magnetics Letters, 2016, 7, 1-4.	0.6	4
59	Microstructure and Magnetic Properties of Melt-Spun Nd-Rich Nd-Fe Alloys. IEEE Magnetics Letters, 2016, 7, 1-4.	0.6	4
60	Structure Amorphization and Mechanical Properties of Nanolaminates of the Copper–Niobium System During High-Pressure Torsion. Russian Physics Journal, 2018, 61, 428-438.	0.2	4
61	Phase Formation and Magnetic Properties of Melt Spun and Annealed Nd-Fe-B Based Alloys with Ga Additions. Metals, 2019, 9, 497.	1.0	3
62	Cytrandroemia nicobarica-Synthesized ZnO NRs: A New Tool in Cancer Treatment. Jom, 2021, 73, 364-372.	0.9	3
63	Fabrication and Microstructure of Al-Based Hybrid Composite Reinforced by B ₄ C and Ultra-Dispersed Tungsten. Defect and Diffusion Forum, 2011, 309-310, 249-254.	0.4	2
64	Metal-matrix radiation-protective composite materials based on aluminum. Metal Science and Heat Treatment, 2013, 55, 14-18.	0.2	2
65	Structural and magnetic size effects in nanodisperse Zn x Fe ₃ $\hat{1}$ x O ₄ ferrite systems. Physics of the Solid State, 2014, 56, 1334-1337.	0.2	2
66	Formation of High-Coercivity State in Fe ₂ NiAl Alloy During Decomposition of Solid Solution Under Quenching from Liquid State and Subsequent Annealing. Metal Science and Heat Treatment, 2017, 59, 518-523.	0.2	2
67	Thermoelectric properties of Ce x Nd y Co ₄ Sb ₁₂ skutterudites. Semiconductors, 2017, 51, 928-931.	0.2	2
68	Structure and phase composition of composite pellets based on the ALTEK heat-resistance aluminum alloy with boron-containing filler. Russian Journal of Non-Ferrous Metals, 2014, 55, 182-185.	0.2	1
69	The Direct Observation of Grain Refinement Mechanism in Advanced Multicomponent $\hat{1}^3$ -TiAl Based Structural Intermetallics Doped with Boron. Springer Proceedings in Physics, 2015, , 175-181.	0.1	1
70	Charge distribution of superheavy elements in galactic cosmic rays on base of investigations in olivine crystals from meteorites. AIP Conference Proceedings, 2015, , .	0.3	0
71	Formation of Structure in an AlNi Alloy Upon Cooling from the Range of Single-Phase Solid Solution and Annealing. Metal Science and Heat Treatment, 2015, 56, 621-625.	0.2	0
72	Structure and magnetic properties of the Nd _{9.5} Fe _{84.5} B ₆ alloy subjected to severe plastic deformation and annealing. Russian Metallurgy (Metally), 2017, 2017, 801-806.	0.1	0

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73	Structural and Magnetic Properties of As-Cast Fe-Nd Alloys. , 2018, , 363-371.		0