

Konstantin Ivanov

List of Publications by Year in descending order

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84
papers

581
citations

840776
11
h-index

713466
21
g-index

84
all docs

84
docs citations

84
times ranked

426
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancing mechanical and tribological properties of Ni3Al-15vol%TiC composite by high current pulsed electron beam irradiation. Journal of Alloys and Compounds, 2022, 898, 162860.	5.5	7
2	Application of high current pulsed electron beam irradiation to smoothing of cold spray aluminum bronze coating. Vacuum, 2022, 197, 110780.	3.5	10
3	<i>Technical Note:</i> Effect of High-Current Pulsed Electron Beam Processing of Zr-1%Nb Alloy on Its Oxidation Kinetics at 1,200Â°C in Air and Steam. Corrosion, 2022, 78, 163-167.	1.1	0
4	The effect of shear strains on grain size in the Ni3Al intermetallic compound synthesized under pressure. Mechanics of Materials, 2021, 161, 103988.	3.2	1
5	INVESTIGATION OF STRUCTURE AND MECHANICAL PROPERTIES UNDER QUASI-STATIC AND PLANAR IMPACT LOADING OF ALUMINUM COMPOSITE REINFORCED WITH Al2O3 NANOPARTICLES OF DIFFERENT SHAPE. Materials Today Communications, 2021, 29, 102942.	1.9	3
6	Formation of a Nanostructured Hardened Surface Layer on the TiC-(Ni-Cr) Metal-Ceramic Alloy by Pulsed Electron-Beam Irradiation. Springer Tracts in Mechanical Engineering, 2021, , 421-459.	0.3	1
7	SEM Studies on the Microstructure and Phase Composition Distribution in Cr₃C₂ + TiC Claddings on Low-Carbon Steel. Solid State Phenomena, 2020, 303, 59-66.	0.3	1
8	The Effect of Pulsed Electron-Ion Irradiation on Defects in Ceramic-Metal Coatings on Dies for Pelletizing Plastics. IOP Conference Series: Earth and Environmental Science, 2020, 543, 012031.	0.3	0
9	Structure and phase composition of “ZrO2 thin coating” aluminum substrate”-system processed through pulsed electron beam irradiation. Applied Surface Science, 2020, 534, 147628.	6.1	7
10	Structural features of ultrafine-grained aluminum processed through accumulative roll bonding providing improved mechanical properties and thermal stability. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 775, 138988.	5.6	17
11	Corrosion and Wear Resistance of Coatings Produced by Nonvacuum Electron Beam Cladding of Refractory Carbides on Low-Carbon Steel. Inorganic Materials, 2020, 56, 328-332.	0.8	5
12	About the features of the chemical composition of additive products from nickel-based superalloy. AIP Conference Proceedings, 2020, , .	0.4	2
13	Structure, Phase Composition, and Hardness of Coatings Obtained by High-Energy Electron Beam Cladding of a Mixture of Cr3C2 and TiC Powders on Low-Carbon Steel. Inorganic Materials: Applied Research, 2019, 10, 595-599.	0.5	4
14	Thermal Stability of the Structure and Microhardness of the Al”0.05 vol % Al2O3 Nanocomposite Fabricated by Accumulative Roll Bonding. Russian Journal of Non-Ferrous Metals, 2019, 60, 524-530.	0.6	0
15	Formation of Grain Structure in Ni3Al Intermetallic Compound Synthesized by Thermal Explosion. Combustion, Explosion and Shock Waves, 2019, 55, 191-196.	0.8	7
16	Structural heterogeneity of ultrafine-grained FCC metals processed through equal-channel angular pressing on mesoscale level. AIP Conference Proceedings, 2019, , .	0.4	0
17	Effect of Alumina Nanoparticles on the Microstructure, Texture, and Mechanical Properties of Ultrafine”Grained Aluminum Processed by Accumulative Roll Bonding. Advanced Engineering Materials, 2019, 21, 1701135.	3.5	15
18	Thermal stability of Al”0,05 vo1.% Al2O3 nanocomposite fabricated by accumulative roll bonding. Russian Journal of Non-Ferrous Metals, 2019, , 48-56.	0.1	0

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19	Impact of High-Temperature, High-Pressure Synthesis Conditions on the Formation of the Grain Structure and Strength Properties of Intermetallic Ni3Al. IOP Conference Series: Earth and Environmental Science, 2018, 115, 012049.	0.3	2
20	Effect of Surface Layer Structural-Phase Modification on Tribological and Strength Properties of a TiCâ€“(Niâ€“Cr) Metal Ceramic Alloy. Acta Metallurgica Sinica (English Letters), 2018, 31, 547-551.	2.9	12
21	The effect of geometric shape of Al2O3 nanoparticles on the nanoparticles distribution, microstructure and microhardness of Al-Al2O3 nanocomposite fabricated by accumulative roll bonding. AIP Conference Proceedings, 2018, , .	0.4	1
22	Corrosion resistance of coatings obtained by electron beam cladding of (Cr3C2 + TiC) powders on low-carbon steel in air. AIP Conference Proceedings, 2018, , .	0.4	1
23	Influence of High Energy Impact on the Structural-Phase State and Tribological Properties of the Surface Layer of Metal-Ceramic Composite Materials. Journal of Surface Investigation, 2018, 12, 485-491.	0.5	2
24	Modification of Structure and Tribological Properties of the Surface Layer of Metal-Ceramic Composite under Electron Irradiation in the Plasmas of Inert Gases. IOP Conference Series: Earth and Environmental Science, 2018, 115, 012048.	0.3	0
25	Quasi-static and shock-wave loading of ultrafine-grained aluminum: effect of microstructural characteristics. Journal of Materials Science, 2018, 53, 14681-14693.	3.7	8
26	The Structure, Microhardness and Wear Resistance of Coatings Obtained through Non-Vacuum Electron Beam Cladding of Chromium and Titanium Carbides on Low Carbon Steel. Materials Science Forum, 2018, 927, 13-19.	0.3	2
27	Effectiveness of inert plasma gases in formation of modified structures in the surface layer of a cermet composite under pulsed electron irradiation. International Journal of Refractory Metals and Hard Materials, 2018, 77, 31-36.	3.8	6
28	On the Similarity of Deformation Mechanisms During Friction Stir Welding and Sliding Friction of the AA5056 Alloy. Russian Physics Journal, 2018, 60, 2123-2129.	0.4	5
29	Structure, phase composition and hardness of coatings produced by high-energy electron beam cladding Cr3C2 and TiC powder mixture on a low carbon steel. Fizika I Khimiya Obrabotki Materialov, 2018, , 43-49.	0.1	1
30	Improving Hygienic Characteristics of Coated Electrodes for Welding High-Alloy Steels. IOP Conference Series: Earth and Environmental Science, 2017, 50, 012047.	0.3	4
31	Modification of the Structural-Phase State of the Surface Layer of a Cermet Composite Under Electron Beam Irradiation in Inert Gas Plasmas. Russian Physics Journal, 2017, 59, 2114-2121.	0.4	11
32	The Evolution of the Structure and Mechanical Properties of Aluminum During Accumulative Roll Bonding. Russian Physics Journal, 2017, 60, 163-169.	0.4	0
33	The effect of aluminum nanoparticles on the structure, mechanical properties and failure of aluminum processed by accumulative roll bonding. AIP Conference Proceedings, 2017, , .	0.4	1
34	Microstructure, tribological and strength properties of the surface layer in metal-ceramic composite nano-structured by electron irradiation. AIP Conference Proceedings, 2017, , .	0.4	0
35	Structure formation of 5083 alloy during friction stir welding. AIP Conference Proceedings, 2017, , .	0.4	0
36	Structure Evolution and Mechanical Properties of a Ti-6Al-4V Alloy During Helical Rolling and Subsequent Deformation and Heat Treatments. Russian Physics Journal, 2017, 60, 1226-1232.	0.4	6

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37	Structure and mechanical properties of aluminum " aluminum nanoparticles composite produced by accumulative roll bonding. Letters on Materials, 2017, 7, 34-38.	0.7	0
38	Nanostructuring and Physical Properties of Metal-Ceramic Composites With a Different Content the Ceramic Components. IOP Conference Series: Materials Science and Engineering, 2016, 125, 012008.	0.6	1
39	Nanostructured Hardening of Hard Alloys Surface Layers Through Electron Irradiation in Heavy Inert Gas Plasma Conditions. IOP Conference Series: Materials Science and Engineering, 2016, 142, 012093.	0.6	0
40	Modification of subsurface structure in TiC-(Ni-Cr) cermet composite under pulsed electron-beam irradiation of samples in plasmas of light and heavy inert gases. AIP Conference Proceedings, 2016, , .	0.4	1
41	Structure, deformation behavior and failure of aluminum and copper processed by accumulative roll bonding. AIP Conference Proceedings, 2016, , .	0.4	5
42	Wear resistance of the surface layers of hard alloys with a multilevel structural phase state. Journal of Surface Investigation, 2016, 10, 718-722.	0.5	3
43	Comparative TEM study of microstructures of Ti-6Al-4V alloy processed by equal channel angular pressing and helical plus groove rolling. AIP Conference Proceedings, 2016, , .	0.4	2
44	Modification of a hard alloy cermet structure upon pulsed electron-ion-plasma irradiation. Inorganic Materials: Applied Research, 2016, 7, 786-790.	0.5	2
45	Structure and properties of fixed joints formed by ultrasonic-assisted friction-stir welding. AIP Conference Proceedings, 2015, , .	0.4	9
46	Grain structure and strength of a plastically deformed Ni3Al intermetallic compound. Doklady Physics, 2015, 60, 440-441.	0.7	0
47	Formation of a multigrain structure and its influence on the strength and plasticity of the Ni3Al intermetallic compound. Physics of the Solid State, 2015, 57, 1293-1299.	0.6	7
48	The Special Features of the Deformation Behavior of an Ultrafine-Grained Aluminum Alloy of the Al-Mg-Li System at Room Temperature. Russian Physics Journal, 2015, 57, 1705-1708.	0.4	0
49	Effect of atomic displacement on the parameters of the grain boundary ensemble in nickel-based alloys with L12 superstructure. Bulletin of the Russian Academy of Sciences: Physics, 2015, 79, 715-718.	0.6	2
50	Evolution of Structure and Phase Composition of Aluminum Alloy under Severe Plastic Deformation. Advanced Materials Research, 2014, 880, 179-183.	0.3	0
51	Bulk nanostructuring intermetallic composite material. , 2014, , .		1
52	Investigation of Surface Layers of Aluminum Alloy after Superplastic Deformation. Advanced Materials Research, 2014, 880, 190-194.	0.3	0
53	Characteristic Features of Structure Evolution and Phase Composition of an Ultrafine-Grained Al-Mg-Li-Zr Alloy Produced by Severe Plastic Deformation. Russian Physics Journal, 2014, 56, 1025-1029.	0.4	4
54	The changes in phase composition of the subsurface layer of an ultrafine-grained Al-Mg-Li alloy during its deformation under superplasticity conditions. Russian Physics Journal, 2014, 56, 1018-1024.	0.4	2

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55	Tensile behavior and deformation mechanisms of ultrafine-grained aluminum processed using equal-channel angular pressing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 606, 313-321.	5.6	22
56	Activation parameters and deformation mechanisms of ultrafine-grained copper under tension at moderate temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 608, 123-129.	5.6	11
57	Effect of cryorolling on the structure and the mechanical properties of ultrafine-grained nickel. <i>Russian Metallurgy (Metally)</i> , 2014, 2014, 303-307.	0.5	4
58	Electron backscatter diffraction study of changes in the grain structure of Ni ₃ Fe ordering alloy upon an Al α' L1 ₂ phase transition. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2014, 78, 807-810.	0.6	0
59	Investigating the grain structure of Cu-Al and Cu-Mn alloys via electron backscatter diffraction and optical metallography. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2014, 78, 253-256.	0.6	1
60	The effect of strain rate on tensile behavior and deformation mechanisms of ultrafine-grained aluminum. <i>IOP Conference Series: Materials Science and Engineering</i> , 2014, 63, 012123.	0.6	4
61	On the fatigue strength of grade 20Cr13 hardened steel modified by an electron beam. <i>Journal of Surface Investigation</i> , 2013, 7, 90-93.	0.5	11
62	Influence of the degree of long-range atomic order on parameters of the solid solution and the granular structure of the Pd ₃ Fe alloy with superstructure L1 ₂ . <i>Physics of the Solid State</i> , 2013, 55, 1936-1940.	0.6	0
63	Evolution of grain-boundary ensembles in nickel during boundary migration induced by copper diffusion. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2013, 77, 1382-1385.	0.6	2
64	The evolution of the grain boundary ensemble of polycrystalline nickel under creep at elevated temperatures. <i>Russian Physics Journal</i> , 2013, 55, 1105-1110.	0.4	0
65	Change in grain-boundary ensemble upon the Al α' L1 ₂ phase transition in Ni ₃ Mn alloy. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2012, 76, 836-839.	0.6	1
66	Grain boundary sliding in ultrafine grained aluminum under tension at room temperature. <i>Scripta Materialia</i> , 2012, 66, 511-514.	5.2	34
67	The Effect of Grain Boundary State on Deformation Process Development in Nanostructured Metals Produced by the Methods of Severe Plastic Deformation. <i>Materials Science Forum</i> , 2011, 683, 69-79.	0.3	7
68	Features of plastic flow of powder Al-40Sn alloy during extrusion. <i>Russian Journal of Non-Ferrous Metals</i> , 2011, 52, 504-510.	0.6	2
69	Structure Evolution and Deformation Mechanisms in Ultrafine-Grained Aluminum under Tension at Room Temperature. <i>Materials Science Forum</i> , 2010, 667-669, 915-920.	0.3	0
70	The heterogeneity of the aluminum structure and mechanical properties under equal-channel angular pressing. <i>Russian Physics Journal</i> , 2009, 52, 1030-1035.	0.4	8
71	Effect of the velocity of equal-channel angular pressing on the formation of the structure of pure aluminum. <i>Physics of Metals and Metallography</i> , 2008, 106, 411-417.	1.0	9
72	Grain Boundary Diffusion-Controlled Processes and Properties of Bulk Nanostructured Alloys and Steels. <i>Materials Science Forum</i> , 2006, 503-504, 141-148.	0.3	7

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73	Characteristic features of diffusion-controlled processes in ordinary and ultrafine-grained polycrystalline metals. Russian Physics Journal, 2004, 47, 840-856.	0.4	4
74	The structure and microhardness evolution in submicrocrystalline molybdenum processed by severe plastic deformation followed by annealing. International Journal of Refractory Metals and Hard Materials, 2003, 21, 69-73.	3.8	39
75	Diffusion and Properties of Bulk Nanostructured Metals and Alloys Processed by Severe Plastic Deformation. Defect and Diffusion Forum, 2003, 216-217, 253-262.	0.4	3
76	Diffusion and Plasticity of Submicrocrystalline Metals and Alloys. Solid State Phenomena, 2003, 94, 35-40.	0.3	10
77	Caractéristiques du fluage des matériaux nanostructurés produits par hypercorroyage. Annales De Chimie: Science Des Matériaux, 2002, 27, 89-98.	0.4	23
78	Grain Boundary Diffusion and Mechanisms of Creep of Nanostructured Metals. Journal of Materials Science, 2002, 10, 31-36.	1.2	68
79	Title is missing!. Russian Physics Journal, 2002, 45, 547-552.	0.4	6
80	Deformation behavior of Cu-based nanocomposite processed by severe plastic deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 319-321, 872-876.	5.6	75
81	Investigation of possibility to get superplastic state of nanostructured copper. Scripta Materialia, 1999, 12, 947-950.	0.5	6
82	Diffusion induced creep of polycrystalline and nanostructured metals. Scripta Materialia, 1999, 12, 1127-1130.	0.5	30
83	Microplastic deformation of polycrystalline and submicrocrystalline titanium during static and cyclic loading. Russian Physics Journal, 1998, 41, 1188-1192.	0.4	5
84	Characteristic Features and Thermal Stability of Molybdenum Processed by Different Ways of Severe Plastic Deformation. Materials Science Forum, 0, 584-586, 917-922.	0.3	8