

# Ruslan Z Valiev

## List of Publications by Year in descending order

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847  
papers

52,316  
citations

2101

100  
h-index

2033

205  
g-index

878  
all docs

878  
docs citations

878  
times ranked

12898  
citing authors

#	ARTICLE	IF	CITATIONS
1	Room-temperature-deformation-induced chemical short-range ordering in a supersaturated ultrafine-grained Al-Zn alloy. <i>Scripta Materialia</i> , 2022, 210, 114423.	5.2	16
2	Hyaluronic acid bisphosphonates as antifouling antimicrobial coatings for PEO-modified titanium implants. <i>Surfaces and Interfaces</i> , 2022, 28, 101678.	3.0	7
3	Annealing treatments to enhance thermal and mechanical stability of ultrafine-grained metals produced by severe plastic deformation. <i>International Journal of Materials Research</i> , 2022, 94, 1079-1083.	0.3	3
4	Dislocation structure and crystallite size distribution in plastically deformed Ti determined by X-ray peak profile analysis. <i>International Journal of Materials Research</i> , 2022, 94, 1185-1188.	0.3	0
5	Severe Plastic Deformation and Phase Transformations in High Entropy Alloys: A Review. <i>Crystals</i> , 2022, 12, 54.	2.2	13
6	Superplastic-Like Behavior and Enhanced Strength of a Two-Phase Titanium Alloy with Ultrafine Grains. <i>Advanced Engineering Materials</i> , 2022, 24, .	3.5	4
7	Nanomaterials by severe plastic deformation: review of historical developments and recent advances. <i>Materials Research Letters</i> , 2022, 10, 163-256.	8.7	215
8	Enhanced Erosion Resistance of an Ultrafine-Grained Ti Alloy with a PVD Coating. <i>Metals</i> , 2022, 12, 818.	2.3	1
9	Using Severe Plastic Deformation to Produce Nanostructured Materials with Superior Properties. <i>Annual Review of Materials Research</i> , 2022, 52, 357-382.	9.3	34
10	Cryogenic impact toughness of a work hardened austenitic stainless steel. <i>Materialia</i> , 2022, 23, 101460.	2.7	5
11	The role of temperature in the microstructural evolution of HPT-processed NiTiHf high-temperature shape memory alloy. <i>Materials Letters</i> , 2022, 322, 132484.	2.6	3
12	The influence of severe plastic deformation on the thermal expansion of additively manufactured Ti6Al4V alloy. <i>Journal of Materials Research and Technology</i> , 2022, 19, 3498-3506.	5.8	5
13	Significant improvement in the thermal cycling stability of Ni44.8Ti45.8Hf5Cu5 shape memory alloy by high pressure torsion and post-deformation annealing. <i>Journal of Materials Research and Technology</i> , 2022, 19, 2215-2224.	5.8	7
14	Temperature-dependent-composition of $\beta$ phase in an Al-Zn-Mg-Cu alloy under high pressure torsion: Kinetics and thermodynamics. <i>Acta Materialia</i> , 2022, 237, 118181.	7.9	6
15	The formation of a high-strength state in martensitic Ti Grade 4 by ECAP. <i>Journal of Alloys and Compounds</i> , 2022, 922, 166205.	5.5	3
16	Enhanced tensile strength and ductility of bulk metallic glasses Zr52.5Cu17.9Al10Ni14.6Ti5 via high-pressure torsion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 803, 140485.	5.6	12
17	The effect of neutron irradiation on the impact toughness of austenitic stainless steel in ultrafine-grained state. <i>Journal of Nuclear Materials</i> , 2021, 544, 152680.	2.7	4
18	Effect of multiple forging and annealing on microstructure and mechanical properties of a high-manganese steel. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1014, 012008.	0.6	0

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19	Development of nanostructured titanium implants for biomedical implants – A short review. <i>Materials Today: Proceedings</i> , 2021, 46, 1195-1200.	1.8	15
20	Unveiling the Local Atomic Arrangements in the Shear Band Regions of Metallic Glass. <i>Advanced Materials</i> , 2021, 33, e2007267.	21.0	38
21	Tailoring Extra-Strength of a TWIP Steel by Combination of Multi-Pass Equal-Channel Angular Pressing and Warm Rolling. <i>Metals</i> , 2021, 11, 518.	2.3	13
22	Commercialization of bulk nanostructured metals and alloys. <i>MRS Bulletin</i> , 2021, 46, 265-272.	3.5	20
23	Large and Severe Plastic Deformation of Metals: Similarities and Differences in Flow Mechanics and Structure Formation. <i>Advanced Engineering Materials</i> , 2021, 23, 2100110.	3.5	6
24	Advanced Materials for Mechanical Engineering: Ultrafine-Grained Alloys with Multilayer Coatings. <i>Advanced Engineering Materials</i> , 2021, 23, 2100145.	3.5	7
25	Low temperature super ductility and threshold stress of an ultrafine-grained Al–Zn–Mg–Zr alloy processed by equal-channel angular pressing. <i>Journal of Materials Science</i> , 2021, 56, 19244-19252.	3.7	2
26	Study of second phase precipitates in nanostructured commercially pure titanium. <i>Letters on Materials</i> , 2021, 11, 345-350.	0.7	2
27	Ultralow-temperature superplasticity and its novel mechanism in ultrafine-grained Al alloys. <i>Materials Research Letters</i> , 2021, 9, 475-482.	8.7	21
28	Strength and torsion fracture mechanism of commercially pure titanium with ultrafine-grained structure. <i>Letters on Materials</i> , 2021, 11, 273-278.	0.7	2
29	Microstructural evolution and mechanical properties of nanocrystalline Fe–Mn–Al–C steel processed by high-pressure torsion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 827, 142073.	5.6	13
30	Mechanical properties of UFG titanium: Notched fatigue and impact toughness. <i>Materials Letters</i> , 2021, 302, 130366.	2.6	8
31	Enhanced service properties of a protective coating on a titanium alloy with an ultrafine-grained structure. <i>Materials Letters</i> , 2021, 305, 130781.	2.6	6
32	Fracture locus characteristics of Al alloy 5083 processed by equal channel angular pressing using miniaturized specimens. <i>Journal of Alloys and Compounds</i> , 2021, 889, 161675.	5.5	6
33	Determination of static fracture toughness of coarse-grained and ultrafine-grained materials by the depth of the plastic zone under the fractures surface. <i>Letters on Materials</i> , 2021, 11, 45-49.	0.7	1
34	THE RESEARCH OF AGING AND MECHANICAL PROPERTIES OF NANOSTRUCTURAL TITANIUM. <i>Vektor Nauki Tol Yattinskogo Gosudarstvennogo Universiteta</i> , 2021, , 67-73.	0.1	0
35	Local State of Stress of the Material at the Crack Tip for Various Types of Loading. <i>Russian Metallurgy (Metally)</i> , 2021, 2021, 1177-1182.	0.5	2
36	Strength and fracture mechanism during torsion of ultrafine-grained austenitic steel for medical applications. <i>Izvestiya Vysshikh Uchebnykh Zavedenij Chernaya Metallurgiya</i> , 2021, 64, 832-838.	0.3	0

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37	Strength and Fracture Mechanism during Torsion of Ultrafine-Grained Austenitic Steel for Medical Applications. <i>Steel in Translation</i> , 2021, 51, 778-782.	0.3	1
38	Strength and Fracture Mechanism of an Ultrafine-Grained Austenitic Steel for Medical Applications. <i>Materials</i> , 2021, 14, 7739.	2.9	4
39	Influence of ultra-fine grain structure on corrosion behaviour of biodegradable Mg-1Ca alloy. <i>Corrosion Science</i> , 2020, 163, 108303.	6.6	62
40	Superplasticity and High Strength in Al-Zn-Mg-Zr Alloy with Ultrafine Grains. <i>Advanced Engineering Materials</i> , 2020, 22, 1900555.	3.5	10
41	Characterizing Microstructural and Mechanical Properties of Al-Zn Alloys Processed by High-Pressure Torsion. <i>Advanced Engineering Materials</i> , 2020, 22, 1900672.	3.5	9
42	Consolidation of the Amorphous Zr <sub>50</sub> Cu <sub>50</sub> Ribbons by High-Pressure Torsion. <i>Advanced Engineering Materials</i> , 2020, 22, 1900694.	3.5	6
43	Accumulative HPT of Zr-based bulk metallic glasses. <i>Materials Letters</i> , 2020, 261, 127000.	2.6	23
44	Discontinuous grain growth in an equal-channel angular pressing processed Fe-9Cr steel with a heterogeneous microstructure. <i>Materials Characterization</i> , 2020, 159, 110004.	4.4	11
45	Biofunctionalization of PEO coatings on titanium implants with inorganic and organic substances. <i>Surface and Coatings Technology</i> , 2020, 404, 126486.	4.8	28
46	Impact of Equal Channel Angular Pressing on Mechanical Behavior and Corrosion Resistance of Hot-Rolled Ti-2Fe-0.1B Alloy. <i>Materials</i> , 2020, 13, 5117.	2.9	6
47	Ultrafine-Grained Metallic Materials and Coatings. <i>Advanced Engineering Materials</i> , 2020, 22, 2001012.	3.5	2
48	<i>in vitro</i> and <i>in vivo</i> studies on ultrafine-grained biodegradable pure Mg, Mg-Ca alloy and Mg-Sr alloy processed by high-pressure torsion. <i>Biomaterials Science</i> , 2020, 8, 5071-5087.	5.4	35
49	Enhanced Resistance to Irradiation Induced Ferritic Transformation in Nanostructured Austenitic Steels. <i>Materialia</i> , 2020, 13, 100806.	2.7	9
50	Evolution of microstructure and hardness during artificial aging of an ultrafine-grained Al-Zn-Mg-Zr alloy processed by high pressure torsion. <i>Journal of Materials Science</i> , 2020, 55, 16791-16805.	3.7	14
51	Microstructural Changes and Strengthening of Austenitic Stainless Steels during Rolling at 473 K. <i>Metals</i> , 2020, 10, 1614.	2.3	21
52	Architecture and Increased Adhesive Strength of Vacuum-Plasma Coating on Ultrafine-Grained Titanium Alloy. <i>Advanced Engineering Materials</i> , 2020, 22, 2000121.	3.5	3
53	Developing Nanostructured Ti Alloys for Innovative Implantable Medical Devices. <i>Materials</i> , 2020, 13, 967.	2.9	35
54	Nanostructured Fe-Cr-W Steel Exhibits Enhanced Resistance to Self-Ion Irradiation. <i>Advanced Engineering Materials</i> , 2020, 22, 1901333.	3.5	1

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55	Annealing behavior in a high-pressure torsion-processed Fe-9Cr steel. <i>Journal of Materials Science</i> , 2020, 55, 7958-7968.	3.7	10
56	In vitro and in vivo studies on pure Mg, Mg-1Ca and Mg-2Sr alloys processed by equal channel angular pressing. <i>Nano Materials Science</i> , 2020, 2, 96-108.	8.8	24
57	Nanostructured Ti <sub>29.7</sub> Ni <sub>50.3</sub> Hf <sub>20</sub> high temperature shape memory alloy processed by high-pressure torsion. <i>Journal of Materials Science and Technology</i> , 2020, 52, 218-225.	10.7	26
58	Local stress state of materials with an hcp lattice and plastic zones under the fracture surface. <i>Letters on Materials</i> , 2020, 10, 16-21.	0.7	4
59	Kinetics and the fracture mechanism in low-cycle fatigue range and static crack resistance of the Mg <sub>6</sub> Al magnesium alloy after annealing and equal channel angular pressing. <i>Letters on Materials</i> , 2020, 10, 398-403.	0.7	2
60	Strength enhancement induced by grain boundary solute segregations in ultrafine-grained alloys. <i>International Journal of Plasticity</i> , 2019, 123, 133-144.	8.8	35
61	Developing Nanostructured Metals for Manufacturing of Medical Implants with Improved Design and Biofunctionality. <i>Materials Transactions</i> , 2019, 60, 1356-1366.	1.2	26
62	Influence of Ultrafine-Grained Structure on the Kinetics and Fatigue Failure Mechanism of VT6 Titanium Alloy. <i>Russian Journal of Non-Ferrous Metals</i> , 2019, 60, 253-258.	0.6	5
63	The effects of ultra-fine-grained structure and cryogenic temperature on adiabatic shear localization in titanium. <i>Acta Materialia</i> , 2019, 181, 408-422.	7.9	29
64	Influence of fine scale features on room temperature superplastic behaviour of an ultrafine-grained Al-30Zn alloy. <i>Materials Letters</i> , 2019, 254, 329-331.	2.6	14
65	A possible stabilizing effect of work hardening on the tensile performance of superplastic materials. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 759, 448-454.	5.6	6
66	The effect of hardening by annealing in ultrafine-grained Al-0.4Zr alloy: influence of Zr microadditives. <i>Philosophical Magazine</i> , 2019, 99, 2424-2443.	1.6	21
67	Observation of shear bands in the Vitreloy metallic glass subjected to HPT processing. <i>Journal of Alloys and Compounds</i> , 2019, 800, 58-63.	5.5	31
68	Severe plastic deformation assisted carbide precipitation in Fe-21Cr-5Al alloy. <i>Materials Letters</i> , 2019, 253, 78-81.	2.6	6
69	Strain Accumulated during Equal-Channel Angular Pressing and Its Components. <i>Russian Metallurgy (Metally)</i> , 2019, 2019, 281-288.	0.5	8
70	Nanocrystalline Ti <sub>49.2</sub> Ni <sub>50.8</sub> shape memory alloy as orthopaedic implant material with better performance. <i>Journal of Materials Science and Technology</i> , 2019, 35, 2156-2162.	10.7	23
71	EBSD analysis of grain-refinement mechanisms operating during equal-channel angular pressing of commercial-purity titanium. <i>Acta Materialia</i> , 2019, 173, 174-183.	7.9	45
72	Effect of the eutectic Al-(Ce,La) phase morphology on microstructure, mechanical properties, electrical conductivity and heat resistance of Al-4.5(Ce,La) alloy after SPD and subsequent annealing. <i>Journal of Alloys and Compounds</i> , 2019, 796, 321-330.	5.5	37

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73	The Impact of Severe Plastic Deformation on the Microstructure and Physicomechanical Properties of Al-0.4Zr. <i>Inorganic Materials: Applied Research</i> , 2019, 10, 5-11.	0.5	1
74	Biological response of chemically treated surface of the ultrafine-grained Ti-6Al-7Nb alloy for biomedical applications. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 1725-1736.	6.7	19
75	Strengthening mechanisms in an ultrafine-grained Al Zn Mg Cu alloy processed by high pressure torsion at different temperatures. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 752, 223-232.	5.6	34
76	High-pressure torsion assisted segregation and precipitation in a Fe-18Cr-8Ni austenitic stainless steel. <i>Materials Letters</i> , 2019, 243, 116-119.	2.6	11
77	Effects of grain refinement by HPT processing in carbon steel with various cementite morphology. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 672, 012026.	0.6	1
78	Structural features and mechanical properties of Grade 4 titanium from VSMPO-AVISMA (Russia) and Grade 4 titanium from Carpenter Technology Corporation (USA), subjected to ECAP-Conform. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 672, 012016.	0.6	1
79	Microstructure and mechanical properties of the Mg-Zn-Ca biodegradable alloy after severe plastic deformation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 672, 012030.	0.6	3
80	Surface modification of CP-Ti metallic implant material by plasma electrolytic oxidation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 672, 012012.	0.6	4
81	High strength and high conductive copper-based alloy produced by SPD for contact wires for high speed railway lines - A short review. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 672, 012055.	0.6	0
82	Correlation between strain-rate sensitivity and viscous properties derived from dynamic nanoindentation of ultrafine-grained Al-Zn alloys. <i>MRS Communications</i> , 2019, 9, 310-314.	1.8	4
83	Effect of annealing on microstructure, strength and electrical conductivity of the pre-aged and HPT-processed Al-0.4Zr alloy. <i>Journal of Alloys and Compounds</i> , 2019, 784, 41-48.	5.5	35
84	Charpy absorbed energy of ultrafine-grained Ti-6Al-4V alloy at cryogenic and elevated temperatures. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 743, 581-589.	5.6	20
85	Surface functionalization via PEO coating and RGD peptide for nanostructured titanium implants and their in vitro assessment. <i>Surface and Coatings Technology</i> , 2019, 357, 669-683.	4.8	29
86	Annealing behavior of severely-deformed titanium Grade 4. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 742, 89-101.	5.6	22
87	High-pressure torsion and equal-channel angular pressing. , 2019, , 3-19.		5
88	Combined processing ECAP + TMP. , 2019, , 21-35.		1
89	Strengthening mechanisms and super-strength of severely deformed titanium. , 2019, , 123-143.		5
90	Dynamic precipitation, segregation and strengthening of an Al-Zn-Mg-Cu alloy (AA7075) processed by high-pressure torsion. <i>Acta Materialia</i> , 2019, 162, 19-32.	7.9	166

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91	Effect of Mg on microstructure and mechanical properties of Al-Mg alloys produced by high pressure torsion. Scripta Materialia, 2019, 159, 137-141.	5.2	87
92	Superplastic Behavior at Lower Temperatures of High-Strength Ultrafine-Grained Al Alloy 7475. Advanced Engineering Materials, 2019, 21, 1800094.	3.5	12
93	Corrosion resistance of steels with ultrafine grained structure in hydrogen sulfide environment. Letters on Materials, 2019, 9, 282-287.	0.7	1
94	Enhancement of mechanical and electrical properties of Al-RE alloys by optimizing rare-earth concentration and thermo-mechanical treatment. Journal of Alloys and Compounds, 2018, 745, 696-704.	5.5	53
95	Enhanced strain rate sensitivity of Zr-based bulk metallic glasses subjected to high pressure torsion. Journal of Alloys and Compounds, 2018, 747, 595-602.	5.5	45
96	Psoriasis patients demonstrate HLA-Cw*06:02 allele dosage-dependent T cell proliferation when treated with hair follicle-derived keratin 17 protein. Scientific Reports, 2018, 8, 6098.	3.3	20
97	Review on superior strength and enhanced ductility of metallic nanomaterials. Progress in Materials Science, 2018, 94, 462-540.	32.8	634
98	Strength and Fracture Mechanisms of Nanostructured Metallic Materials Under Single Kinds of Loading. Metal Science and Heat Treatment, 2018, 59, 597-605.	0.6	2
99	Fracture toughness at cryogenic temperatures of ultrafine-grained Ti-6Al-4V alloy processed by ECAP. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 716, 260-267.	5.6	44
100	Impact Toughness of Ultrafine-Grained Commercially Pure Titanium for Medical Application. Advanced Engineering Materials, 2018, 20, 1700863.	3.5	9
101	Transition from poor ductility to room-temperature superplasticity in a nanostructured aluminum alloy. Scientific Reports, 2018, 8, 6740.	3.3	70
102	Cluster structure in amorphous Ti-Ni-Cu alloys subjected to high-pressure torsion deformation. Journal of Alloys and Compounds, 2018, 749, 612-619.	5.5	12
103	Microstructure, Texture and Mechanical Properties of Titanium Grade 2 Processed by ECAP (Route C). Metals and Materials International, 2018, 24, 802-814.	3.4	7
104	Full-scale use of X-ray scattering techniques to characterize aged Al-2wt.%Cu alloy. Journal of Alloys and Compounds, 2018, 735, 1792-1798.	5.5	10
105	Diffusive and displacive phase transitions in Ti-Fe and Ti-Co alloys under high pressure torsion. Journal of Alloys and Compounds, 2018, 735, 2281-2286.	5.5	35
106	Stability of the structure and properties of an ultrafine-grained Cr-Ni steel irradiated with neutrons in nuclear reactor core conditions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 712, 365-372.	5.6	11
107	Optimization of Strength-Electrical Conductivity Properties in Al-2Fe Alloy by Severe Plastic Deformation and Heat Treatment. Advanced Engineering Materials, 2018, 20, 1700867.	3.5	24
108	Hardening by Annealing and Implementation of High Ductility of Ultra-Fine Grained Aluminum: Experiment and Theory. Reviews on Advanced Materials Science, 2018, 57, 224-240.	3.3	27

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109	Studies on the Superplasticity Effect in UFA: History and Development (In Memory of Prof. O.A.) Tj ETQq1 1 0.784314 rgBT /Qverlock	3.3	2
110	Microstructure, mechanical and corrosion properties of ultrafine-grained Mg-2%Sr alloy. IOP Conference Series: Materials Science and Engineering, 2018, 380, 012014.	0.6	3
111	Influence of additional severe plastic deformation at elevated temperatures on microstructure and physical-mechanical properties of ultrafine grained Al-0.4Zr alloy. IOP Conference Series: Materials Science and Engineering, 2018, 447, 012027.	0.6	0
112	High pressure torsion induced structural transformations in Ti- and Zr-based amorphous alloys. IOP Conference Series: Materials Science and Engineering, 2018, 447, 012052.	0.6	3
113	Ultra-fine grained $\hat{I}^2$ -type TNZT ELI alloy with high strength and low elastic modulus. IOP Conference Series: Materials Science and Engineering, 2018, 461, 012077.	0.6	3
114	Influence of Severe Plastic Deformation on Microstructure, Strength and Electrical Conductivity of Aged Al $\hat{I}$ €“0.4Zr(Wt.%) Alloy. Reviews on Advanced Materials Science, 2018, 55, 92-101.	3.3	23
115	Free volume measurement of severely deformed Zr <sub>62</sub> Cu <sub>22</sub> Al <sub>10</sub> Fe <sub>5</sub> Dy <sub>1</sub> bulk metallic glass. Journal of Physics: Conference Series, 2018, 1134, 012010.	0.4	8
116	Enhancement of Mechanical and Electrical Properties in Al 6101 Alloy by Severe Shear Strain under Hydrostatic Pressure. Advanced Engineering Materials, 2018, 20, 1800695.	3.5	2
117	The Strength and Fracture Mechanism of Unalloyed Medium-Carbon Steel with Ultrafine-Grained Structure under Single Loads. Physics of Metals and Metallography, 2018, 119, 1004-1012.	1.0	3
118	Modern techniques of surface geometry modification for the implants based on titanium and its alloys used for improvement of the biomedical characteristics. , 2018, , 115-145.		3
119	Long-time stability of metals after severe plastic deformation: Softening and hardening by self-annealing versus thermal stability. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 729, 340-348.	5.6	48
120	The effect of tungsten on microstructure and mechanical performance of an ultrafine Fe-Cr steel. Materials Letters, 2018, 227, 292-295.	2.6	10
121	Superior Strength and Multiple Strengthening Mechanisms in Nanocrystalline TWIP Steel. Scientific Reports, 2018, 8, 11200.	3.3	48
122	Atomic Force Microscopy Studies of Severely Deformed Amorphous TiNiCu Alloy. Defect and Diffusion Forum, 2018, 385, 200-205.	0.4	1
123	Improved osseointegration properties of hierarchical microtopographic/nanotopographic coatings fabricated on titanium implants. International Journal of Nanomedicine, 2018, Volume 13, 2175-2188.	6.7	16
124	Enhanced Osseointegrative Properties of Ultra-Fine-Grained Titanium Implants Modified by Chemical Etching and Atomic Layer Deposition. ACS Biomaterials Science and Engineering, 2018, 4, 3268-3281.	5.2	32
125	Peculiarities of Interactions of Alloying Elements with Grain Boundaries and the Formation of Segregations in Al $\hat{I}$ €“Mg and Al $\hat{I}$ €“Zn Alloys. Physics of Metals and Metallography, 2018, 119, 607-612.	1.0	10
126	Multiple Shear Bands in Zr-Based Bulk Metallic Glass Processed by Severe Plastic Deformation. Defect and Diffusion Forum, 2018, 385, 319-324.	0.4	7



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127	Molybdenum Disulfide Surface Modification of Ultrafine-Grained Titanium for Enhanced Cellular Growth and Antibacterial Effect. <i>Scientific Reports</i> , 2018, 8, 9907.	3.3	14
128	The influence of the microstructure morphology of two phase Ti-6Al-4V alloy on the mechanical properties of diffusion bonded joints. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 726, 251-258.	5.6	8
129	Phase Transformations, Strength, and Modulus of Elasticity of Ti-15Mo Alloy Obtained by High-Pressure Torsion. <i>Inorganic Materials: Applied Research</i> , 2018, 9, 14-20.	0.5	4
130	Nanostructured commercially pure titanium for development of miniaturized biomedical implants. , 2018, , 393-417.		10
131	Influence of microstructure on thermal stability of ultrafine-grained Cu processed by equal channel angular pressing. <i>Journal of Materials Science</i> , 2018, 53, 13173-13185.	3.7	30
132	Effect of self-ion irradiation on the microstructural changes of alloy EK-181 in annealed and severely deformed conditions. <i>Journal of Nuclear Materials</i> , 2017, 487, 96-104.	2.7	30
133	Paramagnetic susceptibility of the Zr 62 Cu 22 Al 10 Fe 5 Dy 1 metallic glass subjected to high-pressure torsion deformation. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 437, 67-71.	2.3	4
134	Hardness, Electrical Conductivity and Thermal Stability of Externally Oxidized Cu-Al <sub>2</sub> O <sub>3</sub> Composite Processed by SPD. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 2110-2117.	2.5	11
135	Effect of strain rate on the mechanical properties of a gum metal with various microstructures. <i>Acta Materialia</i> , 2017, 132, 193-208.	7.9	23
136	Mechanical behavior and impact toughness of the ultrafine-grained Grade 5 Ti alloy processed by ECAP. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 696, 166-173.	5.6	36
137	Investigation into the corrosion rate and features of the samples made of nanostructured aluminum alloy in the H <sub>2</sub> S-containing medium. <i>Russian Journal of Non-Ferrous Metals</i> , 2017, 58, 142-148.	0.6	3
138	Precipitates studies in ultrafine-grained Al alloys with enhanced strength and conductivity. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 194, 012034.	0.6	2
139	Microstructure and thermal stability of nanocrystalline Mg-Gd-Y-Zr alloy processed by high pressure torsion. <i>Journal of Alloys and Compounds</i> , 2017, 721, 577-585.	5.5	54
140	Microstructure evolution and strengthening mechanisms in commercial-purity titanium subjected to equal-channel angular pressing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 701, 289-301.	5.6	48
141	Room-Temperature Superplasticity in an Ultrafine-Grained Magnesium Alloy. <i>Scientific Reports</i> , 2017, 7, 2662.	3.3	100
142	Mechanisms of precipitation induced by large strains in the Al-Cu system. <i>Journal of Alloys and Compounds</i> , 2017, 710, 736-747.	5.5	42
143	Effect of annealing on microhardness and electrical resistivity of nanostructured SPD aluminium. <i>Journal of Alloys and Compounds</i> , 2017, 698, 539-546.	5.5	41
144	Dynamic deformation and failure of ultrafine-grained titanium. <i>Acta Materialia</i> , 2017, 125, 210-218.	7.9	82

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145	The microstructure-strength relationship in severely-deformed commercial-purity titanium. <i>Materials Letters</i> , 2017, 192, 165-168.	2.6	11
146	Effect of annealing on the microstructure and mechanical properties of ultrafine-grained commercially pure Al. <i>Physics of the Solid State</i> , 2017, 59, 1970-1977.	0.6	27
147	Effect of surface etching on the tensile behavior of coarse- and ultrafine-grained pure titanium. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 707, 337-343.	5.6	10
148	New X-Ray Technique to Characterize Nanoscale Precipitates in Aged Aluminum Alloys. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 4732-4737.	2.5	8
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#	ARTICLE	IF	CITATIONS
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