

Nariman A Enikeev

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81
papers

1,849
citations

22
h-index

41
g-index

85
ext. papers

2,270
ext. citations

3.5
avg, IF

4.87
L-index

#	Paper	IF	Citations
81	On the origin of the extremely high strength of ultrafine-grained Al alloys produced by severe plastic deformation. <i>Scripta Materialia</i> , 2010 , 63, 949-952	5.6	223
80	Atomic-scale analysis of the segregation and precipitation mechanisms in a severely deformed AlMg alloy. <i>Acta Materialia</i> , 2014 , 72, 125-136	8.4	166
79	Nanostructured titanium-based materials for medical implants: Modeling and development. <i>Materials Science and Engineering Reports</i> , 2014 , 81, 1-19	30.9	166
78	Optimization of electrical conductivity and strength combination by structure design at the nanoscale in AlMgBi alloys. <i>Acta Materialia</i> , 2015 , 98, 355-366	8.4	138
77	Evolution of microstructure, macrotexture and mechanical properties of commercially pure Ti during ECAP-conform processing and drawing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 562, 128-136	5.3	128
76	Grain boundary segregation induced strengthening of an ultrafine-grained austenitic stainless steel. <i>Materials Letters</i> , 2014 , 136, 349-352	3.3	89
75	Mechanical and electrical properties of an ultrafine grained Al8.5 wt. % RE (RE = 5.4 wt.% Ce, 3.1 wt.% La) alloy processed by severe plastic deformation. <i>Materials and Design</i> , 2016 , 90, 433-442	8.1	77
74	Grain Boundary Segregation in UFG Alloys Processed by Severe Plastic Deformation. <i>Advanced Engineering Materials</i> , 2012 , 14, 968-974	3.5	68
73	Annealing behavior of a 304L stainless steel processed by large strain cold and warm rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 689, 370-383	5.3	48
72	Enhancement of mechanical and electrical properties of Al-RE alloys by optimizing rare-earth concentration and thermo-mechanical treatment. <i>Journal of Alloys and Compounds</i> , 2018 , 745, 696-704	5.7	35
71	Enhanced Mechanical Properties and Electrical Conductivity in Ultrafine-Grained Al 6101 Alloy Processed via ECAP-Conform. <i>Metals</i> , 2015 , 5, 2148-2164	2.3	35
70	Superior Strength and Multiple Strengthening Mechanisms in Nanocrystalline TWIP Steel. <i>Scientific Reports</i> , 2018 , 8, 11200	4.9	32
69	Analysis of substructure evolution during simple shear of polycrystals by means of a combined viscoplastic self-consistent and disclination modeling approach. <i>Acta Materialia</i> , 2006 , 54, 985-995	8.4	31
68	Impact of the nanostructuring on the corrosion resistance and hardness of irradiated 316 austenitic stainless steels. <i>Applied Surface Science</i> , 2017 , 392, 1026-1035	6.7	29
67	Mechanisms of precipitation induced by large strains in the Al-Cu system. <i>Journal of Alloys and Compounds</i> , 2017 , 710, 736-747	5.7	28
66	Bulk Nanostructured Materials with Multifunctional Properties. <i>SpringerBriefs in Materials</i> , 2015 ,	0.5	27
65	Superstrength of ultrafine-grained aluminum alloys produced by severe plastic deformation. <i>Doklady Physics</i> , 2010 , 55, 267-270	0.8	26

64	Kinetic dislocation model of microstructure evolution during severe plastic deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 460-461, 619-623	5.3	26
63	Nanomaterials by severe plastic deformation: review of historical developments and recent advances. <i>Materials Research Letters</i> , 2022 , 10, 163-256	7.4	26
62	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	3.3	24
61	Formation of fully austenitic ultrafine-grained high strength state in metastable CrNiTi stainless steel by severe plastic deformation. <i>Materials Letters</i> , 2016 , 166, 276-279	3.3	22
60	Developing age-hardenable Al-Zr alloy by ultra-severe plastic deformation: Significance of supersaturation, segregation and precipitation on hardening and electrical conductivity. <i>Acta Materialia</i> , 2021 , 203, 116503	8.4	22
59	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	5.7	20
58	Structural and phase transformation in a TWIP steel subjected to high pressure torsion. <i>Materials Letters</i> , 2016 , 166, 321-324	3.3	20
57	Superstrength of nanostructured metals and alloys produced by severe plastic deformation. <i>Physics of Metals and Metallography</i> , 2012 , 113, 1193-1201	1.2	19
56	Biaxial Deformation Behavior and Enhanced Formability of Ultrafine-Grained Pure Copper. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 2399-2408	2.3	18
55	Superior Strength of Austenitic Steel Produced by Combined Processing, including Equal-Channel Angular Pressing and Rolling. <i>Metals</i> , 2016 , 6, 310	2.3	16
54	Effect of initial grain size on the microstructure and mechanical properties of high-pressure torsion processed twinning-induced plasticity steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 682, 164-167	5.3	15
53	Modelling grain refinement in fcc metals during equal-channel angular pressing by route $\epsilon\epsilon$. <i>International Journal of Materials Research</i> , 2007 , 98, 167-171	0.5	15
52	Examination of inverse Hall-Petch relation in nanostructured aluminum alloys by ultra-severe plastic deformation. <i>Journal of Materials Science and Technology</i> , 2021 , 91, 78-89	9.1	14
51	Grain size refinement due to relaxation of disclination junction configurations in the course of plastic deformation of polycrystals. <i>Physics of the Solid State</i> , 2005 , 47, 845	0.8	13
50	Annealing behavior of severely-deformed titanium Grade 4. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 742, 89-101	5.3	13
49	Optimization of Strength-Electrical Conductivity Properties in AlFe Alloy by Severe Plastic Deformation and Heat Treatment. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700867	3.5	13
48	Strength enhancement induced by grain boundary solute segregations in ultrafine-grained alloys. <i>International Journal of Plasticity</i> , 2019 , 123, 133-144	7.6	12
47	Post-treatment of additively manufactured FeCrNi stainless steels by high pressure torsion: TRIP effect. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 811, 141086	5.3	12

46	Irradiation resistance of a nanostructured 316 austenitic stainless steel. <i>IOP Conference Series: Materials Science and Engineering</i> , 2014 , 63, 012121	0.4	11
45	X-ray analysis and computer simulation for grain size determination in nanostructured materials. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000 , 286, 110-114	5.3	11
44	Submicrocrystalline Austenitic Stainless Steel Processed by Cold or Warm High Pressure Torsion. <i>Materials Science Forum</i> , 2016 , 838-839, 398-403	0.4	10
43	Effect of neutron irradiation on the microstructure and the mechanical and corrosion properties of the ultrafine-grained stainless CrNi steel. <i>Physics of Metals and Metallography</i> , 2015 , 116, 1270-1278	1.2	10
42	Fatigue Properties of Ultra-Fine Grained Al-Mg-Si Wires with Enhanced Mechanical Strength and Electrical Conductivity. <i>Metals</i> , 2018 , 8, 1034	2.3	10
41	Microstructural Changes and Strengthening of Austenitic Stainless Steels during Rolling at 473 K. <i>Metals</i> , 2020 , 10, 1614	2.3	9
40	Stability of the structure and properties of an ultrafine-grained Cr-Ni steel irradiated with neutrons in nuclear reactor core conditions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 712, 365-372	5.3	9
39	Observations of Texture in Large Scale HPT-Processed Cu. <i>Materials Science Forum</i> , 2008 , 584-586, 367-374	3.4	8
38	Three-dimensional numerical simulations of multi-pass equal-channel angular pressing by a variation difference method and comparison with experiment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 493, 148-159	5.3	8
37	The effect of tungsten on microstructure and mechanical performance of an ultrafine Fe-Cr steel. <i>Materials Letters</i> , 2018 , 227, 292-295	3.3	8
36	Peculiarities of Interactions of Alloying Elements with Grain Boundaries and the Formation of Segregations in AlMg and AlZn Alloys. <i>Physics of Metals and Metallography</i> , 2018 , 119, 607-612	1.2	7
35	Radiation Tolerance of Ultrafine-Grained Materials Fabricated by Severe Plastic Deformation. <i>Materials Transactions</i> , 2019 , 60, 1723-1731	1.3	7
34	Contribution of grain boundary related strain accommodation to deformation of ultrafine-grained palladium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 668, 255-262	5.3	7
33	Deformation of nanocrystalline binary aluminum alloys with segregation of Mg, Co and Ti at grain boundaries. <i>Physics of Metals and Metallography</i> , 2017 , 118, 65-74	1.2	6
32	Low-temperature plasticity in nanocrystalline titanium and copper. <i>Physics of the Solid State</i> , 2007 , 49, 678-683	0.8	6
31	A mechanism of grain nucleation during relaxation of the latent energy of junction disclinations in the course of plastic deformation. <i>Technical Physics Letters</i> , 2005 , 31, 1015-1018	0.7	6
30	Tuning the Structure and the Mechanical Properties of Ultrafine Grain AlZn Alloys by Short Time Annealing. <i>Reviews on Advanced Materials Science</i> , 2018 , 55, 61-68	4.8	6
29	Surface modification of low activation ferritic-martensitic steel EK-181 (Rusfer) by high temperature pulsed plasma flows. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015 , 365, 218-221	1.2	5

28	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	5
27	Using intensive plastic deformations for manufacturing bulk nanostructure metallic materials. <i>Mechanics of Solids</i> , 2012 , 47, 463-474	0.5	4
26	Superstrength of nanostructured alloys produced by SPD processing. <i>Journal of Physics: Conference Series</i> , 2011 , 291, 012029	0.3	3
25	Towards superstrength of nanostructured metals and alloys, produced by SPD. <i>Metallic Materials</i> , 2021 , 49, 1-9	1.3	3
24	Effect of combined loading on the microstructure and microhardness of austenitic steel. <i>Letters on Materials</i> , 2017 , 7, 29-33	0.9	3
23	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	3.3	2
22	High strength state of UFG steel produced by severe plastic deformation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2014 , 63, 012127	0.4	2
21	Ultra-fine grained Al-Mg alloys with superior strength via physical simulation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2014 , 63, 012042	0.4	2
20	A Physical Criterion for the Grain Subdivision during SPD. <i>Solid State Phenomena</i> , 2005 , 101-102, 319-324	0.4	2
19	Influence of Morphology of Intermetallic Particles on the Microstructure and Properties Evolution in Severely Deformed Al-Fe Alloys. <i>Metals</i> , 2021 , 11, 815	2.3	2
18	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	3.3	2
17	Plasticity of an extra-strong nanocrystalline stainless steel controlled by the Dislocation-segregation Interaction. <i>Materials Letters</i> , 2021 , 301, 130235	3.3	2
16	Peculiarities of Strengthening of AlCuZr Alloy Structured by Severe Plastic Deformation. <i>Physics of the Solid State</i> , 2021 , 63, 1744-1756	0.8	2
15	Nanostructured FeCrW Steel Exhibits Enhanced Resistance to Self-Ion Irradiation. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901333	3.5	1
14	SPD-Induced Grain Boundary Segregations and Superior Strength in UFG Al Alloys. <i>Materials Science Forum</i> , 2010 , 667-669, 665-669	0.4	1
13	Investigation of Assemblies of Grain Boundary Dislocations in Nanostructured Copper by Computer Simulation. <i>Materials Science Forum</i> , 1998 , 294-296, 207-210	0.4	1
12	Microstructural evolution and mechanical properties of nanocrystalline FeMnAl steel processed by high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 827, 142073	5.3	1
11	Modeling of Grain Subdivision during Severe Plastic Deformation by VPSC Method Combined with Disclination Analysis 2006 , 61-66		1

10	Room-temperature-deformation-induced chemical short-range ordering in a supersaturated ultrafine-grained Al-Zn alloy. <i>Scripta Materialia</i> , 2022 , 210, 114423	5.6	0
9	Influence of strain rate and Sn in solid solution on the grain refinement and crystalline defect density in severely deformed Cu. <i>Materials Today Communications</i> , 2021 , 26, 101746	2.5	0
8	Ultrafine-grained Al-Cu-Zr alloy with high-strength and enhanced plasticity. <i>Materials Letters</i> , 2021 , 303, 130490	3.3	0
7	Superior Mechanical Properties of Nanostructured Light Metallic Materials and Their Innovation Potential 2015 , 17-33		
6	X-Ray Analysis of SPD Nanostructured Materials 2013 , 623-632		
5	Computer Simulation for X-Ray Analysis of Nanostructured Cu Processed by Severe Plastic Deformation. <i>Materials Science Forum</i> , 2004 , 443-444, 99-102	0.4	
4	Deformation Behaviour of ECAP Cu as Described by a Dislocation-Based Model 2005 , 245-250		
3	Stability of the Ultrafine-Grained Structure of Austenitic Corrosion-Resistant Steels during Annealing. <i>Physics of Metals and Metallography</i> , 2021 , 122, 775-781	1.2	
2	Influence of Deformation Temperature on the Effect of High Plasticity Implementation in Ultrafine-Grained Al _{0.5} Cu Alloy. <i>Physics of the Solid State</i> , 2021 , 63, 1730-1738	0.8	
1	Cryogenic Impact Toughness of a Work Hardened Austenitic Stainless Steel. <i>Materialia</i> , 2022 , 101460	3.2	