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Version: 2024-04-27

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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.

69 papers	1,059 citations	20 h-index	30 g-index
72 ext. papers	1,343 ext. citations	5.8 avg, IF	4.86 L-index

#	Paper	IF	Citations
69	A simulation study of the shape of η precipitates in Mg ₉₂ and Mg ₉₀ alloys. <i>Acta Materialia</i> , 2013 , 61, 453-466	8.4	120
68	Simulation study of precipitation in an Mg ₉₀ alloy. <i>Acta Materialia</i> , 2012 , 60, 4819-4832	8.4	74
67	An origin of functional fatigue of shape memory alloys. <i>Acta Materialia</i> , 2017 , 126, 389-400	8.4	56
66	A simulation study of η precipitation on dislocations in an Mg ₉₀ rare earth alloy. <i>Acta Materialia</i> , 2014 , 77, 133-150	8.4	50
65	P-phase precipitation and its effect on martensitic transformation in (Ni,Pt)Ti shape memory alloys. <i>Acta Materialia</i> , 2012 , 60, 1514-1527	8.4	47
64	Group theory description of transformation pathway degeneracy in structural phase transformations. <i>Acta Materialia</i> , 2016 , 109, 353-363	8.4	45
63	Microstructure map for self-organized phase separation during film deposition. <i>Physical Review Letters</i> , 2012 , 109, 086101	7.4	42
62	A universal symmetry criterion for the design of high performance ferroic materials. <i>Acta Materialia</i> , 2017 , 127, 438-449	8.4	33
61	Phase-Field Simulation of Orowan Strengthening by Coherent Precipitate Plates in an Aluminum Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 3287-3301	7.3	33
60	Pattern formation during cubic to orthorhombic martensitic transformations in shape memory alloys. <i>Acta Materialia</i> , 2014 , 68, 93-105	8.4	33
59	Taming martensitic transformation via concentration modulation at nanoscale. <i>Acta Materialia</i> , 2017 , 130, 196-207	8.4	31
58	Austenite grain refinement during load-biased thermal cycling of a Ni _{49.9} Ti _{50.1} shape memory alloy. <i>Acta Materialia</i> , 2015 , 91, 318-329	8.4	31
57	Effects of the austenitizing temperature on the mechanical properties of cold-rolled medium-Mn steel system. <i>Journal of Alloys and Compounds</i> , 2017 , 691, 51-59	5.7	30
56	Formation and self-organization of void superlattices under irradiation: A phase field study. <i>Materialia</i> , 2018 , 1, 78-88	3.2	27
55	Grand-potential-based phase-field model for multiple phases, grains, and chemical components. <i>Physical Review E</i> , 2018 , 98, 023309	2.4	26
54	Crystallographic analysis and phase field simulation of transformation plasticity in a multifunctional Ti alloy. <i>International Journal of Plasticity</i> , 2017 , 89, 110-129	7.6	24
53	Nano η/η' composite precipitates in Alloy 718. <i>Applied Physics Letters</i> , 2012 , 100, 211913	3.4	24

52	The role of nano-scaled structural non-uniformities on deformation twinning and stress-induced transformation in a cold rolled multifunctional Titanium alloy. <i>Scripta Materialia</i> , 2020 , 177, 181-185	5.6	24
51	Mechanical behavior and microstructural analysis of NiTi-40Au shape memory alloys exhibiting work output above 400 °C. <i>Intermetallics</i> , 2017 , 86, 33-44	3.5	21
50	Shuffle-nanodomain regulated strain glass transition in Ti-24Nb-4Zr-8Sn alloy. <i>Acta Materialia</i> , 2020 , 186, 415-424	8.4	21
49	Theoretical prediction and atomic kinetic Monte Carlo simulations of void superlattice self-organization under irradiation. <i>Scientific Reports</i> , 2018 , 8, 6629	4.9	20
48	Defect strength and strain glass state in ferroelastic systems. <i>Journal of Alloys and Compounds</i> , 2016 , 661, 100-109	5.7	18
47	Pattern formation during interfacial reaction in-between liquid Sn and Cu substrates – A simulation study. <i>Acta Materialia</i> , 2016 , 113, 245-258	8.4	14
46	Making metals linear super-elastic with ultralow modulus and nearly zero hysteresis. <i>Materials Horizons</i> , 2019 , 6, 515-523	14.4	13
45	Symmetry and pathway analyses of the twinning modes in NiTi shape memory alloys. <i>Materialia</i> , 2019 , 6, 100320	3.2	13
44	Intrinsic coupling between twinning plasticity and transformation plasticity in metastable β Ti-alloys: A symmetry and pathway analysis. <i>Acta Materialia</i> , 2020 , 196, 488-504	8.4	13
43	Determination of twinning path from broken symmetry: A revisit to deformation twinning in bcc metals. <i>Acta Materialia</i> , 2020 , 196, 280-294	8.4	12
42	Self-organized multigrain patterning with special grain boundaries produced by phase transformation cycling. <i>Physical Review Materials</i> , 2018 , 2,	3.2	12
41	Linear-superelastic metals by controlled strain release via nanoscale concentration-gradient engineering. <i>Materials Today</i> , 2020 , 33, 17-23	21.8	12
40	Guided Self-Assembly of Nano-Precipitates into Mesocrystals. <i>Scientific Reports</i> , 2015 , 5, 16530	4.9	11
39	Novel deformation twinning system in a cold rolled high-strength metastable- β Ti-5Al-5V-5Mo-3Cr-0.5Fe alloy. <i>Materialia</i> , 2020 , 9, 100614	3.2	10
38	Formation of tetragonal gas bubble superlattice in bulk molybdenum under helium ion implantation. <i>Scripta Materialia</i> , 2018 , 149, 26-30	5.6	8
37	Deformation pathway and defect generation in crystals: a combined group theory and graph theory description. <i>IUCrJ</i> , 2019 , 6, 96-104	4.7	8
36	H-phase precipitation and its effects on martensitic transformation in NiTi-Hf high-temperature shape memory alloys. <i>Acta Materialia</i> , 2021 , 208, 116651	8.4	8
35	Non-conservative dynamics of lattice sites near a migrating interface in a diffusional phase transformation. <i>Acta Materialia</i> , 2017 , 127, 481-490	8.4	6

34	Ab initio theory of noble gas atoms in bcc transition metals. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 17048-17058	3.6	6
33	An atomistic study of grain boundaries and surfaces in U-Mo. <i>Journal of Nuclear Materials</i> , 2018 , 507, 248-257	3.3	5
32	Hidden pathway during fcc to bcc/bct transformations: Crystallographic origin of slip martensite in steels. <i>Physical Review Materials</i> , 2018 , 2,	3.2	5
31	Monte Carlo simulation of magnetic domain structure and magnetic properties near the morphotropic phase boundary. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 7236-7244	3.6	4
30	A Provably Secure Signature Scheme based on Factoring and Discrete Logarithms. <i>Applied Mathematics and Information Sciences</i> , 2014 , 8, 1553-1558	2.4	4
29	Symmetry breaking during defect self-organization under irradiation. <i>Materials Theory</i> , 2020 , 4,	2.2	4
28	Disordering of helium gas bubble superlattices in molybdenum under ion irradiation and thermal annealing. <i>Journal of Nuclear Materials</i> , 2020 , 539, 152315	3.3	4
27	Enhanced ductility of Mg _{0.9} Zn _{0.1} alloy with dilute Ca addition achieved by activation of non-basal slip and twinning. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 813, 141128	5.3	4
26	Regulation of Cathode Mass and Charge Transfer by Structural 3D Engineering for Protonic Ceramic Fuel Cell at 400°C. <i>Advanced Functional Materials</i> , 2021 , 31, 2102907	15.6	4
25	Practical verifiably encrypted signatures based on discrete logarithms. <i>Security and Communication Networks</i> , 2016 , 9, 5996-6003	1.9	4
24	A generalized O-element approach for analyzing interface structures. <i>Acta Materialia</i> , 2019 , 165, 508-518	18.4	4
23	A Revisit to the Notation of Martensitic Crystallography. <i>Crystals</i> , 2018 , 8, 349	2.3	4
22	Phase Transformation Graph and Transformation Pathway Engineering for Shape Memory Alloys. <i>Shape Memory and Superelasticity</i> , 2020 , 6, 115-130	2.8	3
21	A Cayley graph description of the symmetry breaking associated with deformation and structural phase transitions in metallic materials. <i>Materialia</i> , 2020 , 9, 100588	3.2	3
20	Bifurcation and Pattern Symmetry Selection in Reaction-Diffusion Systems with Kinetic Anisotropy. <i>Scientific Reports</i> , 2019 , 9, 7835	4.9	3
19	A improved equation of state for Xe gas bubbles in U-Mo fuels. <i>Journal of Nuclear Materials</i> , 2020 , 530, 151961	3.3	3
18	Recent Advances in the Design of Novel Titanium Alloys Using Integrated Theory, Computer Simulation, and Advanced Characterization. <i>Advanced Engineering Materials</i> , 2021 , 23, 2100152	3.5	3
17	Thermal stability of helium bubble superlattice in Mo under TEM in-situ heating. <i>Journal of Nuclear Materials</i> , 2018 , 505, 207-211	3.3	3

16	Practical verifiably encrypted signature based on Waters signatures. <i>IET Information Security</i> , 2015 , 9, 185-193	1.4	2
15	Certificate-based verifiably encrypted RSA signatures. <i>Transactions on Emerging Telecommunications Technologies</i> , 2015 , 26, 276-289	1.9	2
14	Practical verifiably encrypted signatures without random oracles. <i>Information Sciences</i> , 2014 , 278, 793-801	1.7	2
13	Twinning path determined by broken symmetry: A revisit to deformation twinning in hexagonal close-packed titanium and zirconium. <i>Physical Review Materials</i> , 2020 , 4,	3.2	2
12	Enhanced twinning-induced plasticity effect by novel $\{315\}_\alpha/\{332\}_\beta$ correlated deformation twins in a Ti-Nb alloy. <i>International Journal of Plasticity</i> , 2021 , 148, 103132	7.6	2
11	Enhanced strength-ductility synergy achieved through twin boundary pinning in a bake-hardened Mg ₉₂ Zn-0.5Ca alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 831, 142239	5.3	2
10	Regulation of Cathode Mass and Charge Transfer by Structural 3D Engineering for Protonic Ceramic Fuel Cell at 400 $^\circ$ C (Adv. Funct. Mater. 33/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170244	15.6	2
9	Simulation study on exchange interaction and unique magnetization near ferromagnetic morphotropic phase boundary. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 445802	1.8	1
8	Defect-free plastic deformation through dimensionality reduction and self-annihilation of topological defects in crystalline solids. <i>Physical Review Research</i> , 2020 , 2,	3.9	1
7	Rapid dislocation-mediated solute repartitioning towards strain-aging hardening in a fine-grained dilute magnesium alloy. <i>Materials Research Letters</i> , 2022 , 10, 21-28	7.4	1
6	Defect dynamics in Fe, Mo, and their alloys. <i>Journal of Nuclear Materials</i> , 2021 , 549, 152893	3.3	1
5	Dissociated prismatic loop punching by bubble growth in FCC metals. <i>Scientific Reports</i> , 2021 , 11, 12839	4.9	1
4	The effect of elastic anisotropy on the symmetry selection of irradiation-induced void superlattices in cubic metals. <i>Computational Materials Science</i> , 2022 , 206, 111252	3.2	0
3	Enhanced superplasticity achieved by disclination-dislocation reactions in a fine-grained low-alloyed magnesium system. <i>International Journal of Plasticity</i> , 2022 , 154, 103300	7.6	0
2	Certificate-based Fair Exchange Protocol of Schnorr Signatures in Chosen-key Model. <i>Fundamenta Informaticae</i> , 2015 , 141, 95-114	1	
1	Correlated Nucleation of Precipitates in Magnesium Alloy WE54 2011 , 1-8		