Yipeng Gao

List of Publications by Year in Descending Order

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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.

72 1,343 5.8 4.86 ext. papers ext. citations avg, IF L-index

#	Paper Paper	IF	Citations
69	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
68	Enhanced strength-ductility synergy achieved through twin boundary pinning in a bake-hardened MgZn-0.5Ca alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2022 , 831, 142239	5.3	2
67	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	O
66	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	O
65	Enhanced twinning-induced plasticity effect by novel {315}₽/{332}Icorrelated deformation twins in a Ti-Nb alloy. <i>International Journal of Plasticity</i> , 2021 , 148, 103132	7.6	2
64	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
63	Recent Advances in the Design of Novel Elitanium Alloys Using Integrated Theory, Computer Simulation, and Advanced Characterization. <i>Advanced Engineering Materials</i> , 2021 , 23, 2100152	3.5	3
62	Enhanced ductility of MgflZnfl.2Zr 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
61	Regulation of Cathode Mass and Charge Transfer by Structural 3D Engineering for Protonic Ceramic Fuel Cell at 400 IIC. Advanced Functional Materials, 2021, 31, 2102907	15.6	4
60	Defect dynamics in EU, Mo, and their alloys. <i>Journal of Nuclear Materials</i> , 2021 , 549, 152893	3.3	1
59	Dissociated prismatic loop punching by bubble growth in FCC metals. <i>Scientific Reports</i> , 2021 , 11, 12839	4.9	1
58	Regulation of Cathode Mass and Charge Transfer by Structural 3D Engineering for Protonic Ceramic Fuel Cell at 400 (Adv. Funct. Mater. 33/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 21702	2 44 .6	2
57	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
56	Phase Transformation Graph and Transformation Pathway Engineering for Shape Memory Alloys. <i>Shape Memory and Superelasticity</i> , 2020 , 6, 115-130	2.8	3
55	Novel deformation twinning system in a cold rolled high-strength metastable-□ Ti-5Al-5V-5Mo-3Cr-0.5Fe alloy. <i>Materialia</i> , 2020 , 9, 100614	3.2	10
54	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
53	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

(2018-2020)

52	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
51	Symmetry breaking during defect self-organization under irradiation. <i>Materials Theory</i> , 2020 , 4,	2.2	4
50	The role of nano-scaled structural non-uniformities on deformation twinning and stress-induced transformation in a cold rolled multifunctional £itanium alloy. <i>Scripta Materialia</i> , 2020 , 177, 181-185	5.6	24
49	Shuffle-nanodomain regulated strain glass transition in Ti-24Nb-4Zr-8Sn alloy. <i>Acta Materialia</i> , 2020 , 186, 415-424	8.4	21
48	A improved equation of state for Xe gas bubbles in D -Mo fuels. <i>Journal of Nuclear Materials</i> , 2020 , 530, 151961	3.3	3
47	Linear-superelastic metals by controlled strain release via nanoscale concentration-gradient engineering. <i>Materials Today</i> , 2020 , 33, 17-23	21.8	12
46	Intrinsic coupling between twinning plasticity and transformation plasticity in metastable [] Ti-alloys: A symmetry and pathway analysis. <i>Acta Materialia</i> , 2020 , 196, 488-504	8.4	13
45	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
44	Making metals linear super-elastic with ultralow modulus and nearly zero hysteresis. <i>Materials Horizons</i> , 2019 , 6, 515-523	14.4	13
43	Symmetry and pathway analyses of the twinning modes in NiIIi shape memory alloys. <i>Materialia</i> , 2019 , 6, 100320	3.2	13
42	Bifurcation and Pattern Symmetry Selection in Reaction-Diffusion Systems with Kinetic Anisotropy. <i>Scientific Reports</i> , 2019 , 9, 7835	4.9	3
41	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
40	A generalized O-element approach for analyzing interface structures. <i>Acta Materialia</i> , 2019 , 165, 508-51	18.4	4
39	Formation of tetragonal gas bubble superlattice in bulk molybdenum under helium ion implantation. <i>Scripta Materialia</i> , 2018 , 149, 26-30	5.6	8
38	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
37	An atomistic study of grain boundaries and surfaces in U -Mo. <i>Journal of Nuclear Materials</i> , 2018 , 507, 248-257	3.3	5
36	Grand-potential-based phase-field model for multiple phases, grains, and chemical components. <i>Physical Review E</i> , 2018 , 98, 023309	2.4	26
35	Formation and self-organization of void superlattices under irradiation: A phase field study. <i>Materialia</i> , 2018 , 1, 78-88	3.2	27

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	Self-organized multigrain patterning with special grain boundaries produced by phase transformation cycling. <i>Physical Review Materials</i> , 2018 , 2,	3.2	12
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	A Revisit to the Notation of Martensitic Crystallography. <i>Crystals</i> , 2018 , 8, 349	2.3	4
30	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
29	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
28	A universal symmetry criterion for the design of high performance ferroic materials. <i>Acta Materialia</i> , 2017 , 127, 438-449	8.4	33
27	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
26	Taming martensitic transformation via concentration modulation at nanoscale. <i>Acta Materialia</i> , 2017 , 130, 196-207	8.4	31
25	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
24	An origin of functional fatigue of shape memory alloys. <i>Acta Materialia</i> , 2017 , 126, 389-400	8.4	56
23	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
22	Crystallographic analysis and phase field simulation of transformation plasticity in a multifunctional ETi alloy. <i>International Journal of Plasticity</i> , 2017 , 89, 110-129	7.6	24
21	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
20	Group theory description of transformation pathway degeneracy in structural phase transformations. <i>Acta Materialia</i> , 2016 , 109, 353-363	8.4	45
19	Practical verifiably encrypted signatures based on discrete logarithms. <i>Security and Communication Networks</i> , 2016 , 9, 5996-6003	1.9	4
18	Defect strength and strain glass state in ferroelastic systems. <i>Journal of Alloys and Compounds</i> , 2016 , 661, 100-109	5.7	18
17	Pattern formation during interfacial reaction in-between liquid Sn and Cu substrates IA simulation study. <i>Acta Materialia</i> , 2016 , 113, 245-258	8.4	14

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16	Practical verifiably encrypted signature based on Waters signatures. <i>IET Information Security</i> , 2015 , 9, 185-193	1.4	2
15	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, 3:	28 7 -33	01 ³³
14	Austenite grain refinement during load-biased thermal cycling of a Ni49.9Ti50.1 shape memory alloy. <i>Acta Materialia</i> , 2015 , 91, 318-329	8.4	31
13	Guided Self-Assembly of Nano-Precipitates into Mesocrystals. <i>Scientific Reports</i> , 2015 , 5, 16530	4.9	11
12	Certificate-based verifiably encrypted RSA signatures. <i>Transactions on Emerging Telecommunications Technologies</i> , 2015 , 26, 276-289	1.9	2
11	Certificate-based Fair Exchange Protocol of Schnorr Signatures in Chosen-key Model. <i>Fundamenta Informaticae</i> , 2015 , 141, 95-114	1	
10	A simulation study of 1 precipitation on dislocations in an MgEare earth alloy. <i>Acta Materialia</i> , 2014 , 77, 133-150	8.4	50
9	Pattern formation during cubic to orthorhombic martensitic transformations in shape memory alloys. <i>Acta Materialia</i> , 2014 , 68, 93-105	8.4	33
8	Practical verifiably encrypted signatures without random oracles. <i>Information Sciences</i> , 2014 , 278, 793	-8 9 17	2
7	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
6	A simulation study of the shape of 2 precipitates in MgN and MgNd alloys. <i>Acta Materialia</i> , 2013 , 61, 453-466	8.4	120
5	Microstructure map for self-organized phase separation during film deposition. <i>Physical Review Letters</i> , 2012 , 109, 086101	7.4	42
4	Simulation study of precipitation in an MgMNd alloy. Acta Materialia, 2012, 60, 4819-4832	8.4	74
3	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
2	Nano 🛚 🖟 composite precipitates in Alloy 718. Applied Physics Letters, 2012 , 100, 211913	3.4	24
1	Correlated Nucleation of Precipitates in Magnesium Alloy WE54 2011 , 1-8		