

Youxing Chen

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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.

66

papers

2,311

citations

25

h-index

47

g-index

70

ext. papers

2,720

ext. citations

6.1

avg, IF

4.76

L-index

#	Paper	IF	Citations
66	Corrosion and stress corrosion cracking in supercritical water. <i>Journal of Nuclear Materials</i> , 2007 , 371, 176-201	3.3	299
65	Radiation damage in nanostructured materials. <i>Progress in Materials Science</i> , 2018 , 96, 217-321	42.2	178
64	Length scale-dependent deformation behavior of nanolayered Cu/Zr micropillars. <i>Acta Materialia</i> , 2012 , 60, 1610-1622	8.4	99
63	Stacking fault and partial dislocation dominated strengthening mechanisms in highly textured Cu/Co multilayers. <i>International Journal of Plasticity</i> , 2013 , 49, 152-163	7.6	91
62	Microstructure and strengthening mechanisms in Cu/Fe multilayers. <i>Acta Materialia</i> , 2012 , 60, 6312-6328	8.4	89
61	Ultra-micro-indentation of silicon and compound semiconductors with spherical indenters. <i>Journal of Materials Research</i> , 1999 , 14, 2338-2343	2.5	88
60	Radiation-induced Ostwald ripening in oxide dispersion strengthened ferritic steels irradiated at high ion dose. <i>Acta Materialia</i> , 2014 , 78, 328-340	8.4	82
59	In situ Evidence of Defect Cluster Absorption by Grain Boundaries in Kr Ion Irradiated Nanocrystalline Ni. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 1966-1974	2.3	81
58	Damage-tolerant nanotwinned metals with nanovoids under radiation environments. <i>Nature Communications</i> , 2015 , 6, 7036	17.4	79
57	In situ study of defect migration kinetics and self-healing of twin boundaries in heavy ion irradiated nanotwinned metals. <i>Nano Letters</i> , 2015 , 15, 2922-7	11.5	78
56	Mechanical properties of crystalline Cu/Zr and crystal/amorphous Cu/CuZr multilayers. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 552, 392-398	5.3	77
55	Response of equal channel angular extrusion processed ultrafine-grained T91 steel subjected to high temperature heavy ion irradiation. <i>Acta Materialia</i> , 2014 , 74, 285-295	8.4	62
54	Unusual size-dependent strengthening mechanisms in helium ion-irradiated immiscible coherent Cu/Co nanolayers. <i>Acta Materialia</i> , 2015 , 84, 393-404	8.4	61
53	In situ study of defect migration kinetics in nanoporous Ag with enhanced radiation tolerance. <i>Scientific Reports</i> , 2014 , 4, 3737	4.9	57
52	In situ studies on radiation tolerance of nanotwinned Cu. <i>Acta Materialia</i> , 2016 , 111, 148-156	8.4	56
51	A roadmap for tailoring the strength and ductility of ferritic/martensitic T91 steel via thermo-mechanical treatment. <i>Acta Materialia</i> , 2016 , 112, 361-377	8.4	50
50	Microstructure evolution during homogenization of a β -type Mg ₂ NiAl alloy. <i>Journal of Alloys and Compounds</i> , 2008 , 448, 316-320	5.7	43

49	Plasticity and ultra-low stress induced twin boundary migration in nanotwinned Cu by in situ nanoindentation studies. <i>Applied Physics Letters</i> , 2014 , 104, 231910	3.4	42
48	Comparison of size dependent strengthening mechanisms in Ag/Fe and Ag/Ni multilayers. <i>Acta Materialia</i> , 2016 , 114, 154-163	8.4	42
47	Superior tolerance of Ag/Ni multilayers against Kr ion irradiation: an in situ study. <i>Philosophical Magazine</i> , 2013 , 93, 3547-3562	1.6	41
46	Enhancement of strength and ductility in ultrafine-grained T91 steel through thermomechanical treatments. <i>Journal of Materials Science</i> , 2013 , 48, 7360-7373	4.3	37
45	The formation mechanisms of growth twins in polycrystalline Al with high stacking fault energy. <i>Acta Materialia</i> , 2015 , 101, 62-70	8.4	36
44	In situ study of heavy ion irradiation response of immiscible Cu/Fe multilayers. <i>Journal of Nuclear Materials</i> , 2016 , 475, 274-279	3.3	35
43	Misfit dislocation patterns of Mg-Nb interfaces. <i>Acta Materialia</i> , 2017 , 126, 552-563	8.4	33
42	In situ heavy ion irradiation studies of nanopore shrinkage and enhanced radiation tolerance of nanoporous Au. <i>Scientific Reports</i> , 2017 , 7, 39484	4.9	27
41	Enhanced radiation tolerance in immiscible Cu/Fe multilayers with coherent and incoherent layer interfaces. <i>Journal of Materials Research</i> , 2015 , 30, 1300-1309	2.5	25
40	In situ studies of radiation induced crystallization in Fe/a-Y2O3 nanolayers. <i>Journal of Nuclear Materials</i> , 2014 , 452, 321-327	3.3	25
39	Superior twin stability and radiation resistance of nanotwinned Ag solid solution alloy. <i>Acta Materialia</i> , 2018 , 151, 395-405	8.4	20
38	Basic criteria for formation of growth twins in high stacking fault energy metals. <i>Applied Physics Letters</i> , 2013 , 103, 181903	3.4	20
37	Radiation induced detwinning in nanotwinned Cu. <i>Scripta Materialia</i> , 2017 , 130, 37-41	5.6	19
36	In situ Observation of Defect Annihilation in Kr Ion-Irradiated Bulk Fe/Amorphous-Fe2Zr Nanocomposite Alloy. <i>Materials Research Letters</i> , 2015 , 3, 35-42	7.4	18
35	Resilient ZnO nanowires in an irradiation environment: An in situ study. <i>Acta Materialia</i> , 2015 , 95, 156-163	3.4	18
34	Effects of three-dimensional Cu/Nb interfaces on strengthening and shear banding in nanoscale metallic multilayers. <i>Acta Materialia</i> , 2020 , 199, 593-601	8.4	18
33	Grain refinement mechanisms and strength-hardness correlation of ultra-fine grained grade 91 steel processed by equal channel angular extrusion. <i>International Journal of Pressure Vessels and Piping</i> , 2019 , 172, 212-219	2.4	17
32	Roles of strain and domain boundaries on the phase transition stability of VO2 thin films. <i>Applied Physics Letters</i> , 2017 , 111, 153102	3.4	16

31	In Situ Studies on Twin-Thickness-Dependent Distribution of Defect Clusters in Heavy Ion-Irradiated Nanotwinned Ag. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017 , 48, 1466-1473	2.3	16
30	A nanocrystalline AlCoCuNi medium-entropy alloy with high thermal stability via entropy and boundary engineering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 774, 138925	5.3	16
29	Hierarchical nanotwins in single-crystal-like nickel with high strength and corrosion resistance produced via a hybrid technique. <i>Nanoscale</i> , 2020 , 12, 1356-1365	7.7	15
28	In situ study on surface roughening in radiation-resistant Ag nanowires. <i>Nanotechnology</i> , 2018 , 29, 2157084	9.4	13
27	A plastic damage model for finite element analysis of cracking of silicon under indentation. <i>Journal of Materials Research</i> , 2010 , 25, 2224-2237	2.5	13
26	Measurement of Heavy Ion Irradiation Induced In-Plane Strain in Patterned Face-Centered-Cubic Metal Films: An in Situ Study. <i>Nano Letters</i> , 2016 , 16, 7481-7489	11.5	13
25	Mechanically controlling the reversible phase transformation from zinc blende to wurtzite in AlN. <i>Materials Research Letters</i> , 2017 , 5, 426-432	7.4	11
24	In situ studies on superior thermal stability of bulk FeZr nanocomposites. <i>Acta Materialia</i> , 2015 , 101, 125-135	8.4	11
23	Enhanced hydrogen absorption kinetics by introducing fine eutectic and long-period stacking ordered structure in ternary eutectic MgNi ₂ alloy. <i>Journal of Alloys and Compounds</i> , 2020 , 820, 153187	5.7	11
22	9R phase enabled superior radiation stability of nanotwinned Cu alloys via in situ radiation at elevated temperature. <i>Acta Materialia</i> , 2019 , 167, 248-256	8.4	10
21	High-Throughput Nanomechanical Screening of Phase-Specific and Temperature-Dependent Hardness in Al _x FeCrNiMn High-Entropy Alloys. <i>Jom</i> , 2019 , 71, 3368-3377	2.1	10
20	Significant enhancement in the thermal stability of nanocrystalline metals via immiscible tri-phases. <i>Scripta Materialia</i> , 2012 , 67, 177-180	5.6	10
19	In situ study on enhanced heavy ion irradiation tolerance of porous Mg. <i>Scripta Materialia</i> , 2018 , 144, 13-17	5.6	10
18	Defect evolution in heavy ion irradiated nanotwinned Cu with nanovoids. <i>Journal of Nuclear Materials</i> , 2017 , 496, 293-300	3.3	9
17	Energetic, structural and mechanical properties of terraced interfaces. <i>Acta Materialia</i> , 2019 , 171, 92-107	8.4	9
16	Radiation Enhanced Absorption of Frank Loops by Nanovoids in Cu. <i>Jom</i> , 2016 , 68, 235-241	2.1	9
15	Neutron reflectometry investigations of interfacial structures of Ti/TiN layers deposited by magnetron sputtering. <i>Thin Solid Films</i> , 2016 , 616, 399-407	2.2	9
14	Radiation tolerance and microstructural changes of nanocrystalline Cu-Ta alloy to high dose self-ion irradiation. <i>Acta Materialia</i> , 2020 , 195, 621-630	8.4	8

13	Atomistic modeling of Mg/Nb interfaces: shear strength and interaction with lattice glide dislocations. <i>Journal of Materials Science</i> , 2018 , 53, 5733-5744	4.3	8
12	In situ neutron diffraction study on temperature dependent deformation mechanisms of ultrafine grained austenitic Fe ₄ Cr ₆ Ni alloy. <i>International Journal of Plasticity</i> , 2014 , 53, 125-134	7.6	8
11	Effects of coherency stress and vacancy sources/sinks on interdiffusion across coherent multilayer interfaces [Part I: Theory. <i>Acta Materialia</i> , 2012 , 60, 2528-2538	8.4	8
10	Effects of coherency stress and vacancy sources/sinks on interdiffusion across coherent multilayer interfaces [Part II: Interface sharpening and intermixing rate. <i>Acta Materialia</i> , 2012 , 60, 2539-2553	8.4	7
9	Microstructural evolution and hydrogen storage properties of melt-spun eutectic Mg _{76.87} Ni _{12.78} Y _{10.35} alloy with low hydrides formation/decomposition enthalpy. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 16644-16653	6.7	5
8	Interface Facilitated Reorientation of Mg Nanolayers in Mg-Nb Nanolaminates. <i>Jom</i> , 2019 , 71, 1215-1220.	7.1	5
7	In situ TEM Investigation of Mechanically Induced Phase Transformations in Nanoscale Composites. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1828-1829	0.5	1
6	The Role of Bcc Mg/Nb Interfaces in Nanocomposite Deformation Observed via In-Situ Mechanical Testing in TEM. <i>Microscopy and Microanalysis</i> , 2017 , 23, 754-755	0.5	1
5	Recent Studies on the Microstructural Response of Nanotwinned Metals to In Situ Heavy Ion Irradiation. <i>Jom</i> , 2020 , 72, 160-169	2.1	1
4	Nanostructured Materials under Extreme Environments. <i>Jom</i> , 2020 , 72, 3993-3994	2.1	1
3	Quantifying physical parameters to predict brittle/ ductile behavior. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 808, 140899	5.3	1
2	A comparison study of void swelling in additively manufactured and cold-worked 316L stainless steels under ion irradiation. <i>Journal of Nuclear Materials</i> , 2021 , 551, 152946	3.3	1
1	High-Throughput Nanoindentation Mapping of Additively Manufactured T91 Steel. <i>Jom</i> , 2022 , 74, 1469-1476	0	0