Yong Zhang

List of Publications by Year in descending order

27 papers	6,339 citations	471061 17 h-index	552369 26 g-index
28 all docs	28 docs citations	28 times ranked	5086 citing authors

#	Article	IF	Citations
1	Gradient structure induced simultaneous enhancement of strength and ductility in AZ31 Mg alloy with twin-twin interactions. Journal of Magnesium and Alloys, 2023, 11, 2872-2882.	5.5	19
2	Microstructure and Properties in Simulated Seawater of Copper-Doped Micro-arc Coatings on TC4 Alloy. Coatings, 2022, 12, 883.	1.2	6
3	Mechanical properties and deformation mechanisms of a Ni2Co1Fe1V0.5Mo0.2 medium-entropy alloy at elevated temperatures. Acta Materialia, 2021, 213, 116982.	3.8	36
4	The mechanism for the serrated flow induced by Suzuki segregation in a Ni alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 820, 141575.	2.6	7
5	Dynamic strain ageing induced by Suzuki segregation in a Ni alloy. Materials Letters, 2021, 296, 129879.	1.3	1
6	A convergence relationship between slip transmission and grain boundary migration in nanocrystalline nickel. Materials Characterization, 2021, 178, 111295.	1.9	0
7	Gradient Enhanced Strain Hardening and Tensile Deformability in a Gradient-Nanostructured Ni Alloy. Nanomaterials, 2021, 11, 2437.	1.9	2
8	Heterogeneous structure controlled by shear bands in partially recrystallized nano-laminated copper. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 721, 226-233.	2.6	10
9	Electrochemical corrosion characteristics and biocompatibility of nanostructured titanium for implants. Applied Surface Science, 2018, 434, 63-72.	3.1	77
10	TEM sample preparation by femtosecond laser machining and ion milling for high-rate TEM straining experiments. Ultramicroscopy, 2017, 175, 1-8.	0.8	7
11	Serration and noise behaviors in materials. Progress in Materials Science, 2017, 90, 358-460.	16.0	203
12	DTEM In Situ Mechanical Testing: Defects Motion at High Strain Rates. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 209-213.	0.3	2
13	In Situ High-Rate Mechanical Testing in the Dynamic Transmission Electron Microscope. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 25-30.	0.3	1
14	A Highâ€Capacitance Saltâ€Free Dielectric for Selfâ€Healable, Printable, and Flexible Organic Field Effect Transistors and Chemical Sensor. Advanced Functional Materials, 2015, 25, 3745-3755.	7.8	113
15	Fabrication and mechanical characterization of 3D woven Cu lattice materials. Materials and Design, 2015, 85, 743-751.	3.3	26
16	Properties of sputter deposited Ni-base superalloys for microelectromechanical systems. Thin Solid Films, 2014, 558, 20-23.	0.8	14
17	Microstructures and properties of high-entropy alloys. Progress in Materials Science, 2014, 61, 1-93.	16.0	4,761
18	Discerning size effect strengthening in ultrafine-grained Mg thin films. Scripta Materialia, 2014, 75, 10-13.	2.6	27

#	Article	IF	Citations
19	Permeability measurements and modeling of topology-optimized metallic 3-D woven lattices. Acta Materialia, 2014, 81, 326-336.	3.8	40
20	Stress-driven grain growth in ultrafine grained Mg thin film. Scripta Materialia, 2013, 68, 424-427.	2.6	34
21	Development of Ni-based superalloys for microelectromechanical systems. Scripta Materialia, 2012, 67, 459-462.	2.6	28
22	Effects of stacking fault energy, strain rate and temperature on microstructure and strength of nanostructured Cuâ€“Al alloys subjected to plastic deformation. Acta Materialia, 2011, 59, 6048-6058.	3.8	130
23	Effect of stacking-fault energy on deformation twin thickness in Cuâ€“Al alloys. Scripta Materialia, 2009, 60, 211-213.	2.6	170
24	Effect of the Zenerâ€“Hollomon parameter on the microstructures and mechanical properties of Cu subjected to plastic deformation. Acta Materialia, 2009, 57, 761-772.	3.8	214
25	Mechanical properties and rolling behaviors of nano-grained copper with embedded nano-twin bundles. Acta Materialia, 2008, 56, 2429-2440.	3.8	212
26	Effect of thermal annealing on mechanical properties of a nanostructured copper prepared by means of dynamic plastic deformation. Scripta Materialia, 2008, 59, 475-478.	2.6	137
27	High strength and high electrical conductivity in bulk nanograined Cu embedded with nanoscale twins. Applied Physics Letters, 2007, 91, .	1.5	61