

Yong Zhang

List of Publications by Year in descending order

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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	Microstructures and properties of high-entropy alloys. <i>Progress in Materials Science</i> , 2014, 61, 1-93.	16.0	4,761
2	Effect of the Zener-Hollomon parameter on the microstructures and mechanical properties of Cu subjected to plastic deformation. <i>Acta Materialia</i> , 2009, 57, 761-772.	3.8	214
3	Mechanical properties and rolling behaviors of nano-grained copper with embedded nano-twin bundles. <i>Acta Materialia</i> , 2008, 56, 2429-2440.	3.8	212
4	Serration and noise behaviors in materials. <i>Progress in Materials Science</i> , 2017, 90, 358-460.	16.0	203
5	Effect of stacking-fault energy on deformation twin thickness in Cu-Al alloys. <i>Scripta Materialia</i> , 2009, 60, 211-213.	2.6	170
6	Effect of thermal annealing on mechanical properties of a nanostructured copper prepared by means of dynamic plastic deformation. <i>Scripta Materialia</i> , 2008, 59, 475-478.	2.6	137
7	Effects of stacking fault energy, strain rate and temperature on microstructure and strength of nanostructured Cu-Al alloys subjected to plastic deformation. <i>Acta Materialia</i> , 2011, 59, 6048-6058.	3.8	130
8	A High-Capacitance Salt-Free Dielectric for Self-Healable, Printable, and Flexible Organic Field Effect Transistors and Chemical Sensor. <i>Advanced Functional Materials</i> , 2015, 25, 3745-3755.	7.8	113
9	Electrochemical corrosion characteristics and biocompatibility of nanostructured titanium for implants. <i>Applied Surface Science</i> , 2018, 434, 63-72.	3.1	77
10	High strength and high electrical conductivity in bulk nanograined Cu embedded with nanoscale twins. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	61
11	Permeability measurements and modeling of topology-optimized metallic 3-D woven lattices. <i>Acta Materialia</i> , 2014, 81, 326-336.	3.8	40
12	Mechanical properties and deformation mechanisms of a Ni ₂ Co ₁ Fe ₁ V _{0.5} Mo _{0.2} medium-entropy alloy at elevated temperatures. <i>Acta Materialia</i> , 2021, 213, 116982.	3.8	36
13	Stress-driven grain growth in ultrafine grained Mg thin film. <i>Scripta Materialia</i> , 2013, 68, 424-427.	2.6	34
14	Development of Ni-based superalloys for microelectromechanical systems. <i>Scripta Materialia</i> , 2012, 67, 459-462.	2.6	28
15	Discerning size effect strengthening in ultrafine-grained Mg thin films. <i>Scripta Materialia</i> , 2014, 75, 10-13.	2.6	27
16	Fabrication and mechanical characterization of 3D woven Cu lattice materials. <i>Materials and Design</i> , 2015, 85, 743-751.	3.3	26
17	Gradient structure induced simultaneous enhancement of strength and ductility in AZ31 Mg alloy with twin-twin interactions. <i>Journal of Magnesium and Alloys</i> , 2023, 11, 2872-2882.	5.5	19
18	Properties of sputter deposited Ni-base superalloys for microelectromechanical systems. <i>Thin Solid Films</i> , 2014, 558, 20-23.	0.8	14

#	ARTICLE	IF	CITATIONS
19	Heterogeneous structure controlled by shear bands in partially recrystallized nano-laminated copper. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 721, 226-233.	2.6	10
20	TEM sample preparation by femtosecond laser machining and ion milling for high-rate TEM straining experiments. <i>Ultramicroscopy</i> , 2017, 175, 1-8.	0.8	7
21	The mechanism for the serrated flow induced by Suzuki segregation in a Ni alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 820, 141575.	2.6	7
22	Microstructure and Properties in Simulated Seawater of Copper-Doped Micro-arc Coatings on TC4 Alloy. <i>Coatings</i> , 2022, 12, 883.	1.2	6
23	Gradient Enhanced Strain Hardening and Tensile Deformability in a Gradient-Nanostructured Ni Alloy. <i>Nanomaterials</i> , 2021, 11, 2437.	1.9	2
24	DTEM In Situ Mechanical Testing: Defects Motion at High Strain Rates. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2017, , 209-213.	0.3	2
25	Dynamic strain ageing induced by Suzuki segregation in a Ni alloy. <i>Materials Letters</i> , 2021, 296, 129879.	1.3	1
26	In Situ High-Rate Mechanical Testing in the Dynamic Transmission Electron Microscope. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016, , 25-30.	0.3	1
27	A convergence relationship between slip transmission and grain boundary migration in nanocrystalline nickel. <i>Materials Characterization</i> , 2021, 178, 111295.	1.9	0