Chongxiang Huang

List of Publications by Year
in descending order

32 papers	1,730 citations	361413 20 h-index	414414 32 g-index
32 all docs	32 docs citations	32 times ranked	1124 citing authors

#	Article	IF	Citations
1	Mechanical properties of copper/bronze laminates: Role of interfaces. Acta Materialia, 2016, 116, 43-52.	7.9	507
2	Extra strengthening in a coarse/ultrafine grained laminate: Role of gradient interfaces. International Journal of Plasticity, 2019, 123, 196-207.	8.8	139
3	Improved back stress and synergetic strain hardening in coarse-grain/nanostructure laminates. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 727, 113-118.	5.6	125
4	An Ideal Ultrafine-Grained Structure for High Strength and High Ductility. Materials Research Letters, 2015, 3, 88-94.	8.7	100
5	In-situobservation of dislocation dynamics near heterostructured interfaces. Materials Research Letters, 2019, 7, 376-382.	8.7	100
6	Corrosion performance of Al2CrFeCoxCuNiTi high-entropy alloy coatings in acid liquids. Journal of Alloys and Compounds, 2017, 708, 353-357.	5.5	79
7	Deformation microstructures and strengthening mechanisms of an ultrafine grained duplex medium-Mn steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 562, 89-95.	5.6	77
8	Dense dispersed shear bands in gradient-structured Ni. International Journal of Plasticity, 2020, 124, 186-198.	8.8	77
9	Size-dependent plasticity of hetero-structured laminates: A constitutive model considering deformation heterogeneities. International Journal of Plasticity, 2021, 145, 103063.	8.8	45
10	On adiabatic shear localization in nanostructured face-centered cubic alloys with different stacking fault energies. Acta Materialia, 2017, 141, 163-182.	7.9	43
11	Synergetic deformation-induced extraordinary softening and hardening in gradient copper. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 752, 217-222.	5.6	41
12	Fatigue damage evaluation of low-alloy steel welded joints in fusion zone and heat affected zone based on frequency response changes in gigacycle fatigue. International Journal of Fatigue, 2014, 61, 297-303.	5.7	31
13	Room temperature nanoindentation creep of nanocrystalline Cu and Cu alloys. Materials Letters, 2012, 70, 26-29.	2.6	29
14	Superior strength-ductility synergy achieved by synergistic strengthening and strain delocalization in a gradient-structured high-manganese steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 825, 141853.	5.6	28
15	Strain-rate sensitivity, activation volume and mobile dislocations exhaustion rate in nanocrystalline Cuâ€“11.1at%Al alloy with low stacking fault energy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 611, 274-279.	5.6	27
16	Ultrafine-Grained Microstructure and Improved Mechanical Behaviors of Friction Stir Welded Cu and Cuâ€“30Zn Joints. Acta Metallurgica Sinica (English Letters), 2018, 31, 878-886.	2.9	26
17	Activating dispersed strain bands in tensioned nanostructure layer for high ductility: The effects of microstructure inhomogeneity. International Journal of Plasticity, 2022, 149, 103159.	8.8	25
18	Shock compression of monocrystalline copper: Experiments, characterization, and analysis. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 424-434.	5.6	22

#	Article	IF	Citations
19	Characterization of Microstructures and Mechanical Properties of Cold-rolled Medium-Mn Steels with Different Annealing Processes. ISIJ International, 2015, 55, 2229-2236.	1.4	22
20	Promising Tensile and Fatigue Properties of Commercially Pure Titanium Processed by Rotary Swaging and Annealing Treatment. Materials, 2018, 11, 2261.	2.9	21
21	Adiabatic shear localization in nanostructured face centered cubic metals under uniaxial compression. Materials and Design, 2016, 105, 262-267.	7.0	20
22	Dynamic reverse phase transformation induced high-strain-rate superplasticity in low carbon low alloy steels with commercial potential. Scientific Reports, 2017, 7, 9199.	3.3	20
23	Shear band stability and uniform elongation of gradient structured material: Role of lateral constraint. Extreme Mechanics Letters, 2020, 37, 100686.	4.1	18
24	Influences of austenization temperature and annealing time on duplex ultrafine microstructure and mechanical properties of medium mn steel. Journal of Iron and Steel Research International, 2015, 22, 42-47.	2.8	17
25	Structure and properties of AlCrFeNiCuTi six principal elements equimolar alloy. Journal of Alloys and Compounds, 2016, 658, 1-5.	5.5	17
26	Yielding and fracture behaviors of coarse-grain/ultrafine-grain heterogeneous-structured copper with transitional interface. Transactions of Nonferrous Metals Society of China, 2019, 29, 588-594.	4.2	16
27	Mechanical response of the constrained nanostructured layer in heterogeneous laminate. Scripta Materialia, 2022, 207, 114310.	5.2	16
28	Mechanical responses and dynamic failure of nanostructure Cuâ€“Al alloys under uniaxial compression. Mechanics of Materials, 2017, 114, 147-160.	3.2	10
29	Coupling of RF antennas to large volume helicon plasma. AIP Advances, 2018, 8, .	1.3	9
30	Inter-zone constraint modifies the stress-strain response of the constituent layer in gradient structure. Science China Materials, 2021, 64, 3114-3123.	6.3	9
31	A strong and ductile pure titanium. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 833, 142534.	5.6	8
32	Significant enhancement of strength in a lamellar-type nanostructured maraging steel subjected to equal-channel angular pressing for 12 passes. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 550, 429-433.	5.6	6