Zhonghao Jiang

List of Publications by Year
in descending order

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79	2,469	186265	214800
papers	citations	28 h-index	47 g-index

80	80	80	2325
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High corrosion-resistance nanocrystalline Ni coating on AZ91D magnesium alloy. Surface and Coatings Technology, 2006, 200, 5413-5418.	4.8	187
2	Effects of microstructural variables on the deformation behaviour of dual-phase steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1995, 190, 55-64.	5.6	150
3	Electroless Niâ€“P plating on AZ91D magnesium alloy from a sulfate solution. Journal of Alloys and Compounds, 2005, 391, 104-109.	5.5	127
4	Enhanced tensile ductility in an electrodeposited nanocrystalline Ni. Scripta Materialia, 2006, 54, 579-584.	5.2	113
5	A black phosphate coating for C1008 steel. Surface and Coatings Technology, 2004, 176, 215-221.	4.8	102
6	High corrosion-resistant Niâ€“P/Ni/Niâ€“P multilayer coatings on steel. Surface and Coatings Technology, 2005, 197, 61-67.	4.8	97
7	Strain rate sensitivity of a nanocrystalline Cu synthesized by electric brush plating. Applied Physics Letters, 2006, 88, 143115.	3.3	83
8	A novel open architecture built by ultra-fine single-crystal Co₂(CO₃)(OH)₂ nanowires and reduced graphene oxide for asymmetric supercapacitors. Journal of Materials Chemistry A, 2016, 4, 17171-17179.	10.3	74
9	Carbon-Encapsulated Co3O4 Nanoparticles as Anode Materials with Super Lithium Storage Performance. Scientific Reports, 2015, 5, 16629.	3.3	73
10	A unique porous architecture built by ultrathin wrinkled NiCoO₂/rGO/NiCoO₂ sandwich nanosheets for pseudocapacitance and Li ion storage. Journal of Materials Chemistry A, 2016, 4, 10304-10313.	10.3	72
11	High strength and high ductility of electrodeposited nanocrystalline Ni with a broad grain size distribution. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 487, 410-416.	5.6	69
12	Strain rate sensitivity of face-centered-cubic nanocrystalline materials based on dislocation deformation. Journal of Applied Physics, 2006, 99, 076103.	2.5	61
13	An analytical study of the influence of thermal residual stresses on the elastic and yield behaviors of short fiber-reinforced metal matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1998, 248, 256-275.	5.6	56
14	Effects of loading strain rate and stacking fault energy on nanoindentation creep behaviors of nanocrystalline Cu, Ni-20 wt.%Fe and Ni. Journal of Alloys and Compounds, 2015, 647, 670-680.	5.5	55
15	An elevated temperature Mgâ€“Dyâ€“Zn alloy with long period stacking ordered phase by extrusion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 3609-3614.	5.6	54
16	Super-hydrophobic property of nano-sized cupric oxide films. Surface and Coatings Technology, 2010, 204, 3200-3204.	4.8	53
17	A dislocation density approximation for the flow stressâ€”grain size relation of polycrystals. Acta Metallurgica Et Materialia, 1995, 43, 3349-3360.	1.8	41
18	The relationship between ductility and material parameters for dual-phase steel. Journal of Materials Science, 1993, 28, 1814-1818.	3.7	38

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19	Ductileâ€“brittleâ€“ductile transition in an electrodeposited 13 nanometer grain sized Niâ€“8.6wt.% Co alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 459, 75-81.	5.6	36
20	Microstructure and properties of thin wall by laser cladding forming. Journal of Materials Processing Technology, 2009, 209, 4970-4976.	6.3	35
21	Deformation mechanism transition caused by strain rate in a pulse electric brush-plated nanocrystalline Cu. Journal of Applied Physics, 2008, 104, .	2.5	33
22	Superhydrophobicity of bionic alumina surfaces fabricated by hard anodizing. Journal of Bionic Engineering, 2011, 8, 369-374.	5.0	32
23	A new relationship between the flow stress and the microstructural parameters for dual phase steel. Acta Metallurgica Et Materialia, 1992, 40, 1587-1597.	1.8	31
24	A new analytical model for three-dimensional elastic stress field distribution in short fibre composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 366, 381-396.	5.6	31
25	The Optimal Grain Sized Nanocrystalline Ni with High Strength and Good Ductility Fabricated by a Direct Current Electrodeposition. Advanced Engineering Materials, 2008, 10, 539-546.	3.5	31
26	Double-peak ageing behavior of Mgâ€“2Dyâ€“0.5Zn alloy. Journal of Alloys and Compounds, 2011, 509, 8268-8275.	5.5	31
27	Ultrathin Mesoporous NiCo₂O₄ Nanosheet Networks as Highâ€Performance Anodes for Lithium Storage. ChemPlusChem, 2015, 80, 1725-1731.	2.8	31
28	Thermodynamic analysis on wetting states and wetting state transitions of rough surfaces. Advances in Colloid and Interface Science, 2020, 278, 102136.	14.7	31
29	Nanoindentation creep behavior and its relation to activation volume and strain rate sensitivity of nanocrystalline Cu. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 751, 35-41.	5.6	30
30	Strain rate dependence of tensile ductility in an electrodeposited Cu with ultrafine grain size. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 479, 136-141.	5.6	28
31	Cu surfaces with controlled structures: From intrinsically hydrophilic to apparently superhydrophobic. Applied Surface Science, 2014, 290, 320-326.	6.1	28
32	Plastic flow behavior and its relationship to tensile mechanical properties of high nitrogen nickel-free austenitic stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 662, 432-442.	5.6	25
33	Strong work-hardening effect in a multiphase ZrCuAlNiO alloy. Applied Physics Letters, 2008, 92, .	3.3	23
34	The origin of the ultrahigh strength and good ductility in nanotwinned copper. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 4270-4274.	5.6	23
35	Microstructure and Mechanical Properties of an Extruded Mg-2Dy-0.5Zn Alloy. Journal of Materials Science and Technology, 2012, 28, 543-551.	10.7	23
36	A novel electrodeposited nanostructured Ni coating with grain size gradient distribution. Surface and Coatings Technology, 2008, 203, 142-147.	4.8	22

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37	Effect of strain rate on tensile properties of electric brush-plated nanocrystalline copper. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 618, 621-628.	5.6	22
38	Enhanced tensile ductility in an electrodeposited nanocrystalline copper. Journal of Materials Research, 2008, 23, 2238-2244.	2.6	20
39	Microstructure and tensile deformation of nanocrystalline Cu produced by pulse electrodeposition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 517, 316-320.	5.6	19
40	Fabrication of Superhydrophobic Calcium Phosphate Coating on Mg-Zn-Ca alloy and Its Corrosion Resistance. Journal of Materials Engineering and Performance, 2017, 26, 6117-6129.	2.5	19
41	Mechanical behavior of an electrodeposited nanostructured Cu with a mixture of nanocrystalline grains and nanoscale growth twins in submicrometer grains. Journal of Applied Physics, 2008, 104, 084305.	2.5	18
42	Elasticâ€“plastic stress transfer in short fibre-reinforced metalâ€“matrix composites. Composites Science and Technology, 2004, 64, 1661-1670.	7.8	17
43	An analytical model for elastic stress field distribution in fibre composite with partially debonded interface. Composites Science and Technology, 2005, 65, 1176-1194.	7.8	17
44	Compressive creep behavior of an electric brush-plated nanocrystalline Cu at room temperature. Journal of Applied Physics, 2009, 106, .	2.5	16
45	High-speed creep process mediated by rapid dislocation absorption in nanocrystalline Cu. Journal of Applied Physics, 2012, 111, 063506.	2.5	16
46	Changes in surface morphology and work function caused by corrosion in aluminum alloys. Journal of Physics and Chemistry of Solids, 2012, 73, 781-787.	4.0	16
47	The Synthesis and Electrochemical Behavior of High-Nitrogen Nickel-Free Austenitic Stainless Steel. Journal of Materials Engineering and Performance, 2014, 23, 3957-3962.	2.5	16
48	Strain rate dependence of tensile strength and ductility of nano and ultrafine grained coppers. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 712, 341-349.	5.6	16
49	On the correlation between surface morphology and electron work function of indium tin oxide. Journal of Applied Physics, 2012, 111, 123714.	2.5	15
50	Friction and Wear Behavior of Nanocrystalline Nickel in Air and Vacuum. Tribology Letters, 2013, 49, 481-490.	2.6	14
51	Impact dynamics of water droplets on Cu films with three-level hierarchical structures. Journal of Materials Science, 2014, 49, 3379-3390.	3.7	14
52	Influence of predeformation on microstructure and mechanical properties of 1020 dual phase steel. Materials Science and Technology, 1991, 7, 527-532.	1.6	13
53	Bulk Nanostructured Cu with High Strength and Good Ductility. Advanced Engineering Materials, 2008, 10, 41-45.	3.5	13
54	Fabrication of super-hydrophobic nano-sized copper films by electroless plating. Thin Solid Films, 2010, 518, 3731-3734.	1.8	13

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55	Formation of a Multiphase Gradient Structure in a Zrâ€“Cuâ€“Niâ€“Alâ€“O Alloy. Advanced Engineering Materials, 2008, 10, 384-388.	3.5	12
56	Microstructures and mechanical properties of Mgâ€“2Yâ€“1Mnâ€“1â€“2Nd alloys fabricated by extrusion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 4383-4388.	5.6	12
57	Preparation of nano-silver iodide powders and their efficiency as ice-nucleating agent in weather modification. Advanced Powder Technology, 2011, 22, 613-616.	4.1	12
58	Tensile-relaxation behavior of electrodeposited nanocrystalline Ni. Journal of Applied Physics, 2010, 108, 054319.	2.5	11
59	Microstructures and mechanical properties of extruded Mgâ€“2Snâ€“xYb (x=0, 0.1, 0.5Âat.%) sheets. Journal of Magnesium and Alloys, 2014, 2, 257-264.	11.9	10
60	Stable ductility of an electrodeposited nanocrystalline Niâ€“20wt.%Fe alloy in tensile plastic deformation. Journal of Alloys and Compounds, 2013, 553, 99-105.	5.5	9
61	Plastic deformation and fracture behaviour of high-nitrogen nickel-free austenitic stainless steel. Materials Science and Technology, 2017, 33, 1635-1644.	1.6	9
62	Self-assembly growth and electron work function of copper phthalocyanine films on indium tin oxide glass. Applied Surface Science, 2012, 258, 3373-3377.	6.1	8
63	Dislocation-mediated creep process in nanocrystalline Cu. Chinese Physics B, 2013, 22, 037303.	1.4	7
64	The grain refinement mechanism of electrodeposited copper. Journal of Materials Research, 2009, 24, 3226-3236.	2.6	6
65	Nanoindentation creep deformation behaviour of high nitrogen nickel-free austenitic stainless steel. Materials Science and Technology, 2019, 35, 1592-1599.	1.6	6
66	A universal method to fabricate Cu films with superhydrophobic and anti-corrosion properties. Materials Science and Technology, 2019, 35, 695-701.	1.6	6
67	Wetting of Cu substrates with micrometer and nanometer grains by molten Snâ€3.5Agâ€0.7Cu alloy. Surface and Interface Analysis, 2010, 42, 1681-1684.	1.8	5
68	Dual-phase nanocrystalline Niâ€“Co alloy with high strength and enhanced ductility. Journal of Materials Research, 2010, 25, 401-405.	2.6	5
69	Synthesis of Î²-phase Ag1â^'xCuxI (x=0â€“0.5) solid solutions nanocrystals. Materials Research Bulletin, 2011, 46, 910-913.	5.2	5
70	AN INVESTIGATION OF SMOOTH NANOSIZED COPPER FILMS ON GLASS SUBSTRATE BY IMPROVED ELECTROLESS PLATING. Surface Review and Letters, 2006, 13, 471-478.	1.1	4
71	Electroless Ni-P deposition on magnesium alloy from a sulfate bath. Journal Wuhan University of Technology, Materials Science Edition, 2008, 23, 60-64.	1.0	4
72	Influences of Y and Y-Rich Mischmetal Additions on Microstructure and Compressive Properties of As-Cast Al-Mg-Mn Alloy. Journal of Materials Engineering and Performance, 2013, 22, 1201-1207.	2.5	4

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73	ENHANCED TENSILE DUCTILITY IN AN ELECTRODEPOSITED CU WITH NANO-SIZED GROWTH TWINS. International Journal of Modern Physics B, 2010, 24, 2537-2542.	2.0	3
74	Strain Rate Dependence of Tensile Properties of Extruded Mgâ€“9Yâ€“3Znâ€“1Mn Alloy. Advanced Engineering Materials, 2018, 20, 1800123.	3.5	3
75	Preparation of nano-Cr2â^'xAlxO3 (x=0â€“1) solid solution powders by using citrate-dispersant method. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 172, 33-36.	3.5	2
76	Preparation of Nanocrystalline Cu Films by Brush-Plating. Integrated Ferroelectrics, 2012, 137, 52-60.	0.7	2
77	Enhanced tensile ductility in an electrodeposited nanocrystalline Ni. , 0, , .		1
78	Study on energy loss of high-energy protons in nano crystalline Ni. Radiation Effects and Defects in Solids, 2013, 168, 933-939.	1.2	0
79	Effect of Zn addition on the microstructures and mechanical behaviors of As-cast Mg-2.5Y-1Ce-0.5Mn alloy. Materials Research Express, 2020, 7, 016564.	1.6	0