

Hua-Jie Yang

List of Publications by Year in descending order

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61
papers

2,537
citations

218592

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docs citations

61
times ranked

2044
citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructural evolution and mechanical properties of Cu-Al alloys subjected to equal channel angular pressing. <i>Acta Materialia</i> , 2009, 57, 1586-1601.	3.8	328
2	Transition of twinning behavior in CoCrFeMnNi high entropy alloy with grain refinement. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 712, 603-607.	2.6	211
3	Morphologies, orientation relationships and evolution of Cu ₆ Sn ₅ grains formed between molten Sn and Cu single crystals. <i>Acta Materialia</i> , 2008, 56, 2649-2662.	3.8	181
4	Cyclic deformation behavior of as-extruded Mg-3%Al-1%Zn. <i>Scripta Materialia</i> , 2008, 58, 751-754.	2.6	150
5	Effects of temperature on the tribological behavior of Al _{0.25} CoCrFeNi high-entropy alloy. <i>Journal of Materials Science and Technology</i> , 2019, 35, 917-925.	5.6	105
6	High temperature healing of Ti ₂ AlC: On the origin of inhomogeneous oxide scale. <i>Scripta Materialia</i> , 2011, 65, 135-138.	2.6	85
7	Achieving high ductility in the 1.7 GPa grade CoCrFeMnNi high-entropy alloy at 77 K. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 740-741, 336-341.	2.6	81
8	Self-healing performance of Ti ₂ AlC ceramic. <i>Journal of Materials Chemistry</i> , 2012, 22, 8304.	6.7	77
9	Strain rate effects on the dynamic mechanical properties of the AlCrCuFeNi ₂ high-entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 649, 35-38.	2.6	75
10	Nano-scale precipitates: The key to high strength and high conductivity in Al alloy wire. <i>Materials and Design</i> , 2017, 132, 148-157.	3.3	66
11	Oxide-scale growth on Cr ₂ AlC ceramic and its consequence for self-healing. <i>Scripta Materialia</i> , 2013, 69, 203-206.	2.6	64
12	Microstructure evolution and strengthening mechanisms of cold-drawn commercially pure aluminum wire. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 639, 103-106.	2.6	64
13	Heterogeneous microstructure and voids dependence of tensile deformation in a selective laser melted AlSi10Mg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 798, 140109.	2.6	60
14	EBS D Study on Deformation Twinning in AZ31 Magnesium Alloy During Quasi-In Situ Compression. <i>Advanced Engineering Materials</i> , 2008, 10, 955-960.	1.6	59
15	Recovery of tensile properties of twinning-induced plasticity steel via electropulsing induced void healing. <i>Scripta Materialia</i> , 2018, 147, 88-92.	2.6	57
16	Modulating the prestrain history to optimize strength and ductility in CoCrFeMnNi high-entropy alloy. <i>Scripta Materialia</i> , 2019, 163, 111-115.	2.6	56
17	TEM study of the initial oxide scales of Ti ₂ AlC. <i>Acta Materialia</i> , 2011, 59, 5216-5223.	3.8	52
18	High-cycle fatigue properties and damage mechanisms of pre-strained Fe-30Mn-0.9C twinning-induced plasticity steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 679, 258-271.	2.6	45

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19	Optimizing the fatigue strength of 18Ni maraging steel through ageing treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 707, 674-688.	2.6	42
20	Hardening and softening mechanisms in a nano-lamellar austenitic steel induced by electropulsing treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 713, 146-150.	2.6	38
21	Healing performance of Ti ₂ AlC ceramic studied with in situ microcantilever bending. <i>Journal of the European Ceramic Society</i> , 2013, 33, 383-391.	2.8	34
22	Dynamic recrystallization in the shear bands of Fe-Cr-Ni monocrystal: Electron backscatter diffraction characterization. <i>Scripta Materialia</i> , 2008, 58, 691-694.	2.6	32
23	Evolution of initial grain boundaries and shear bands in Cu bicrystals during one-pass equal-channel angular pressing. <i>Acta Materialia</i> , 2009, 57, 1132-1146.	3.8	31
24	Improving the High-Cycle Fatigue Lives of Fe-30Mn-0.9C Twinning-Induced Plasticity Steel Through Pre-straining. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 3317-3323.	1.1	31
25	Enhancing strength and ductility of Mg-12Gd-3Y-0.5Zr alloy by forming a bi-ultrafine microstructure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 4300-4311.	2.6	30
26	Enhanced tensile and bending yield strengths of 304 stainless steel and H62 brass by surface spinning strengthening. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 754, 593-601.	2.6	29
27	Effects of electropulsing on the microstructure and microhardness of a selective laser melted Ti6Al4V alloy. <i>Journal of Alloys and Compounds</i> , 2021, 875, 160044.	2.8	29
28	Rapid hardening of AISI 4340 steel induced by electropulsing treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 725, 28-32.	2.6	27
29	Basal shearing of twinned stacking faults and its effect on mechanical properties in an Mg-Zn-Y alloy with LPSO phase. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 779, 139109.	2.6	24
30	Effects of Route on Microstructural Evolution and Mechanical Properties of Cu-8Wt% Ag Alloy Processed by Equal Channel Angular Pressing. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010, 41, 2290-2303.	1.1	23
31	Shear banding observations in Cu-16wt.% Ag alloy subjected to one-pass equal channel angular pressing. <i>Scripta Materialia</i> , 2010, 62, 183-186.	2.6	23
32	Enhanced bending fatigue resistance of a 50CrMnMoVNb spring steel with decarburized layer by surface spinning strengthening. <i>International Journal of Fatigue</i> , 2019, 124, 277-287.	2.8	21
33	Effects of embedded spherical pore on the tensile properties of a selective laser melted Ti6Al4V alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 815, 141254.	2.6	21
34	Coarsening mechanisms, texture evolution and size distribution of Cu ₆ Sn ₅ between Cu and Sn-based solders. <i>Materials Chemistry and Physics</i> , 2011, 131, 190-198.	2.0	20
35	Exploring the strength and ductility improvement of Cu-Al alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 786, 139441.	2.6	19
36	Microstructural Characterization of Long-Period Stacking Ordered Phases in Mg _{0.97} Zn _{0.1} Y _{0.2} (at.%) Alloy. <i>Microscopy and Microanalysis</i> , 2013, 19, 1575-1580.	0.2	18

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37	Synchronously improved fatigue strength and fatigue crack growth resistance in twinning-induced plasticity steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 711, 533-542.	2.6	18
38	Preferential growth and orientation relationship of Ag ₃ Sn grains formed between molten Sn and (001) Ag single crystal. <i>Journal of Materials Research</i> , 2009, 24, 2141-2144.	1.2	17
39	Surface strengthening behaviors of pure Cu with heterogeneous microstructures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 727, 192-199.	2.6	17
40	Effects of defects and microstructures on tensile properties of selective laser melted Ti6Al4V alloys fabricated in the optimal process zone. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 830, 142294.	2.6	16
41	Laser powder bed fusion of 17% PH stainless steel: A comparative study on the effect of heat treatment on the microstructure evolution and mechanical properties. <i>Additive Manufacturing</i> , 2021, 46, 102176.	1.7	14
42	Analysis and characterization by electron backscatter diffraction of microstructural evolution in the adiabatic shear bands in Fe-Cr-Ni alloys. <i>Journal of Materials Research</i> , 2009, 24, 2617-2627.	1.2	13
43	Anisotropic Electroplastic Effects on the Mechanical Properties of a Nano-Lamellar Austenitic Stainless Steel. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 534-542.	1.5	13
44	Effect of aging state on fatigue property of wrought aluminum alloys. <i>International Journal of Fatigue</i> , 2022, 156, 106682.	2.8	12
45	Declined Fatigue Crack Propagation Rate of a High-Strength Steel by Electropulsing Treatment. <i>Advanced Engineering Materials</i> , 2019, 21, 1801345.	1.6	11
46	Comments on "microstructural evolution during high-temperature oxidation of Ti ₂ AlC ceramics". <i>Scripta Materialia</i> , 2011, 65, 930-932.	2.6	10
47	Enhanced efficiency of self-healing of Cr ₂ AlC. <i>Materials Letters</i> , 2018, 227, 51-54.	1.3	10
48	Segregation of solute atoms along deformation-induced boundaries in an Mg-Zn-Y alloy containing long period stacking ordered phase. <i>Materialia</i> , 2019, 6, 100287.	1.3	10
49	Fatigue and Fracture Behavior of a Cold-Drawn Commercially Pure Aluminum Wire. <i>Materials</i> , 2016, 9, 764.	1.3	9
50	Revealing the maximum microhardness and thickness of hardened layers for copper with various grain sizes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 778, 139113.	2.6	9
51	Excellent combination of strength and ductility in CoNiCr-based MP159 alloys at cryogenic temperature. <i>Journal of Alloys and Compounds</i> , 2022, 907, 164144.	2.8	9
52	Enhanced very high cycle fatigue resistance of solution treated Mg ₁₀ Gd ₃ Y ₁ Zn _{0.5} Zr magnesium alloy containing long-period stacking ordered phase. <i>Materialia</i> , 2020, 11, 100672.	1.3	8
53	Stress relaxation behaviors and mechanical properties of precipitation strengthening copper alloys. <i>Journal of Alloys and Compounds</i> , 2021, 861, 158537.	2.8	8
54	In situ bending of layered compounds: The role of anisotropy in Ti ₂ AlC microcantilevers. <i>Scripta Materialia</i> , 2014, 89, 21-24.	2.6	7

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55	Tailoring Microstructures and Mechanical Properties of AlCoCrFeNiTi0.3 High-Entropy Alloys by Heat Treatment. Materials Science Forum, 0, 745-746, 768-774.	0.3	4
56	Significant Enhancement in Cryogenic Mechanical Properties of Cu-Al Alloy via Minor Recrystallization. Advanced Engineering Materials, 2019, 21, 1800889.	1.6	4
57	Nanoscale precipitates with quasicrystal domains enhanced strength-ductility synergy in a Mg-6Zn-4Al-1Sn-0.5Mn alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 848, 143425.	2.6	4
58	Reduces strain of the fine-grained material under the electric current. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 825, 141924.	2.6	3
59	Regulating the tensile properties of a nano-lamellar austenitic stainless steel via cryogenic electropulsing. Advanced Engineering Materials, 0, , .	1.6	2
60	Enhancing Strength and Maintaining Ductility of Mg-3%Li-1%Sc Alloy by Equal Channel Angular Pressing. Materials Science Forum, 2010, 667-669, 839-844.	0.3	1
61	Effect of Aging State on Fatigue Property of Wrought Aluminum Alloys. SSRN Electronic Journal, 0, , .	0.4	0