Hua-Jie Yang

List of Publications by Year
in descending order

61 papers	2,537 citations	218677 26 h-index	197818 49 g-index
61 all docs	61 docs citations	61 times ranked	2044 citing authors

#	Article	IF	Citations
1	Microstructural evolution and mechanical properties of Cuâ€"Al alloys subjected to equal channel angular pressing. Acta Materialia, 2009, 57, 1586-1601.	7.9	328
2	Transition of twinning behavior in CoCrFeMnNi high entropy alloy with grain refinement. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 712, 603-607.	5.6	211
3	Morphologies, orientation relationships and evolution of Cu6Sn5 grains formed between molten Sn and Cu single crystals. Acta Materialia, 2008, 56, 2649-2662.	7.9	181
4	Cyclic deformation behavior of as-extruded Mgâ€"3%Alâ€"1%Zn. Scripta Materialia, 2008, 58, 751-754.	5.2	150
5	Effects of temperature on the tribological behavior of Al0.25CoCrFeNi high-entropy alloy. Journal of Materials Science and Technology, 2019, 35, 917-925.	10.7	105
6	High temperature healing of Ti2AlC: On the origin of inhomogeneous oxide scale. Scripta Materialia, 2011, 65, 135-138.	5.2	85
7	Achieving high ductility in the 1.7â€¯GPa grade CoCrFeMnNi high-entropy alloy at 77â€¯K. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 740-741, 336-341.	5.6	81
8	Self-healing performance of Ti2AlC ceramic. Journal of Materials Chemistry, 2012, 22, 8304.	6.7	77
9	Strain rate effects on the dynamic mechanical properties of the AlCrCuFeNi2 high-entropy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 649, 35-38.	5.6	75
10	Nano-scale precipitates: The key to high strength and high conductivity in Al alloy wire. Materials and Design, 2017, 132, 148-157.	7.0	66
11	Oxide-scale growth on Cr2AlC ceramic and its consequence for self-healing. Scripta Materialia, 2013, 69, 203-206.	5.2	64
12	Microstructure evolution and strengthening mechanisms of cold-drawn commercially pure aluminum wire. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 639, 103-106.	5.6	64
13	Heterogeneous microstructure and voids dependence of tensile deformation in a selective laser melted AlSi10Mg alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 798, 140109.	5.6	60
14	EBSD Study on Deformation Twinning in AZ31 Magnesium Alloy During Quasiâ€inâ€Situ Compression. Advanced Engineering Materials, 2008, 10, 955-960.	3.5	59
15	Recovery of tensile properties of twinning-induced plasticity steel via electropulsing induced void healing. Scripta Materialia, 2018, 147, 88-92.	5.2	57
16	Modulating the prestrain history to optimize strength and ductility in CoCrFeMnNi high-entropy alloy. Scripta Materialia, 2019, 163, 111-115.	5.2	56
17	TEM study of the initial oxide scales of Ti2AlC. Acta Materialia, 2011, 59, 5216-5223.	7.9	52
18	High-cycle fatigue properties and damage mechanisms of pre-strained Fe-30Mn-0.9C twinning-induced plasticity steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 679, 258-271.	5.6	45

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19	Optimizing the fatigue strength of 18Ni maraging steel through ageing treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 707, 674-688.	5.6	42
20	Hardening and softening mechanisms in a nano-lamellar austenitic steel induced by electropulsing treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 713, 146-150.	5.6	38
21	Healing performance of Ti2AlC ceramic studied with in situ microcantilever bending. Journal of the European Ceramic Society, 2013, 33, 383-391.	5.7	34
22	Dynamic recrystallization in the shear bands of Feâ€“Crâ€“Ni monocrystal: Electron backscatter diffraction characterization. Scripta Materialia, 2008, 58, 691-694.	5.2	32
23	Evolution of initial grain boundaries and shear bands in Cu bicrystals during one-pass equal-channel angular pressing. Acta Materialia, 2009, 57, 1132-1146.	7.9	31
24	Improving the High-Cycle Fatigue Lives of Fe-30Mn-0.9C Twinning-Induced Plasticity Steel Through Pre-straining. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 3317-3323.	2.2	31
25	Enhancing strength and ductility of Mgâ€“12Gdâ€“3Yâ€“0.5Zr alloy by forming a bi-ultrafine microstructure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 4300-4311.	5.6	30
26	Enhanced tensile and bending yield strengths of 304 stainless steel and H62 brass by surface spinning strengthening. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 754, 593-601.	5.6	29
27	Effects of electropulsing on the microstructure and microhardness of a selective laser melted Ti6Al4V alloy. Journal of Alloys and Compounds, 2021, 875, 160044.	5.5	29
28	Rapid hardening of AISI 4340 steel induced by electropulsing treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 725, 28-32.	5.6	27
29	Basal shearing of twinned stacking faults and its effect on mechanical properties in an Mgâ€“Znâ€“Y alloy with LPSO phase. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 779, 139109.	5.6	24
30	Effects of Route on Microstructural Evolution and Mechanical Properties of Cu-8ÂWtÂPct Ag Alloy Processed by Equal Channel Angular Pressing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 2290-2303.	2.2	23
31	Shear banding observations in Cuâ€“16wt.% Ag alloy subjected to one-pass equal channel angular pressing. Scripta Materialia, 2010, 62, 183-186.	5.2	23
32	Enhanced bending fatigue resistance of a 50CrMnMoVNb spring steel with decarburized layer by surface spinning strengthening. International Journal of Fatigue, 2019, 124, 277-287.	5.7	21
33	Effects of embedded spherical pore on the tensile properties of a selective laser melted Ti6Al4V alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 815, 141254.	5.6	21
34	Coarsening mechanisms, texture evolution and size distribution of Cu6Sn5 between Cu and Sn-based solders. Materials Chemistry and Physics, 2011, 131, 190-198.	4.0	20
35	Exploring the strength and ductility improvement of Cuâ€“Al alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 786, 139441.	5.6	19
36	Microstructural Characterization of Long-Period Stacking Ordered Phases in Mg₉₇Zn₁Y₂ (at.%) Alloy. Microscopy and Microanalysis, 2013, 19, 1575-1580.	0.4	18

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37	Synchronously improved fatigue strength and fatigue crack growth resistance in twinning-induced plasticity steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 711, 533-542.	5.6	18
38	Preferential growth and orientation relationship of Ag₃Sn grains formed between molten Sn and (001) Ag single crystal. Journal of Materials Research, 2009, 24, 2141-2144.	2.6	17
39	Surface strengthening behaviors of pure Cu with heterogeneous microstructures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 727, 192-199.	5.6	17
40	Effects of defects and microstructures on tensile properties of selective laser melted Ti6Al4V alloys fabricated in the optimal process zone. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 830, 142294.	5.6	16
41	Laser powder bed fusion of 17â€“4 PHÂstainless steel: A comparative study on the effect of heat treatment on the microstructure evolution and mechanical properties. Additive Manufacturing, 2021, 46, 102176.	3.0	14
42	Analysis and characterization by electron backscatter diffraction of microstructural evolution in the adiabatic shear bands in Feâ€“Crâ€“Ni alloys. Journal of Materials Research, 2009, 24, 2617-2627.	2.6	13
43	Anisotropic Electroplastic Effects on the Mechanical Properties of a Nano-Lamellar Austenitic Stainless Steel. Acta Metallurgica Sinica (English Letters), 2021, 34, 534-542.	2.9	13
44	Effect of aging state on fatigue property of wrought aluminum alloys. International Journal of Fatigue, 2022, 156, 106682.	5.7	12
45	Declined Fatigue Crack Propagation Rate of a Highâ€Strength Steel by Electropulsing Treatment. Advanced Engineering Materials, 2019, 21, 1801345.	3.5	11
46	Comments on â€œmicrostructural evolution during high-temperature oxidation of Ti2AlC ceramicsâ€ Scripta Materialia, 2011, 65, 930-932.	5.2	10
47	Enhanced efficiency of self-healing of Cr2AlC. Materials Letters, 2018, 227, 51-54.	2.6	10
48	Segregation of solute atoms along deformation-induced boundaries in an Mgâ€“Znâ€“Y alloy containing long period stacking ordered phase. Materialia, 2019, 6, 100287.	2.7	10
49	Fatigue and Fracture Behavior of a Cold-Drawn Commercially Pure Aluminum Wire. Materials, 2016, 9, 764.	2.9	9
50	Revealing the maximum microhardness and thickness of hardened layers for copper with various grain sizes. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 778, 139113.	5.6	9
51	Excellent combination of strength and ductility in CoNiCr-based MP159 alloys at cryogenic temperature. Journal of Alloys and Compounds, 2022, 907, 164144.	5.5	9
52	Enhanced very high cycle fatigue resistance of solution treated Mgâ€“10Gdâ€“3Yâ€“1Znâ€“0.5Zr magnesium alloy containing long-period stacking ordered phase. Materialia, 2020, 11, 100672.	2.7	8
53	Stress relaxation behaviors and mechanical properties of precipitation strengthening copper alloys. Journal of Alloys and Compounds, 2021, 861, 158537.	5.5	8
54	In situ bending of layered compounds: The role of anisotropy in Ti2AlC microcantilevers. Scripta Materialia, 2014, 89, 21-24.	5.2	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 Cuâ€“Al Alloy via Minor Recrystallization. Advanced Engineering Materials, 2019, 21, 1800889.	3.5	4
57	Nanoscale precipitates with quasicrystal domains enhanced strength-ductility synergy in a Mgâ€“6Znâ€“4Alâ€“1Snâ€“0.5Mn alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 848, 143425.	5.6	4
58	LÃ¼ders strain of the fine-grained material under the electric current. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 825, 141924.	5.6	3
59	Regulating the tensile properties of a nanoâ€lamellar austenitic stainless steel via cryogenic electropulsing. Advanced Engineering Materials, 0, , .	3.5	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