

Che Wei Tsai

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56
papers

3,827
citations

29
h-index

61
g-index

61
ext. papers

4,660
ext. citations

4.1
avg, IF

5.44
L-index

#	Paper	IF	Citations
56	Fatigue behavior of Al _{0.5} CoCrCuFeNi high entropy alloys. <i>Acta Materialia</i> , 2012 , 60, 5723-5734	8.4	492
55	Microstructure and texture evolution during annealing of equiatomic CoCrFeMnNi high-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2014 , 587, 544-552	5.7	321
54	Enhanced mechanical properties of HfMoTaTiZr and HfMoNbTaTiZr refractory high-entropy alloys. <i>Intermetallics</i> , 2015 , 62, 76-83	3.5	273
53	Fatigue behavior of a wrought Al _{0.5} CoCrCuFeNi two-phase high-entropy alloy. <i>Acta Materialia</i> , 2015 , 99, 247-258	8.4	255
52	Deformation and annealing behaviors of high-entropy alloy Al _{0.5} CoCrCuFeNi. <i>Journal of Alloys and Compounds</i> , 2009 , 486, 427-435	5.7	215
51	Criterion for Sigma Phase Formation in Cr- and V-Containing High-Entropy Alloys. <i>Materials Research Letters</i> , 2013 , 1, 207-212	7.4	196
50	Effect of temperature on mechanical properties of Al _{0.5} CoCrCuFeNi wrought alloy. <i>Journal of Alloys and Compounds</i> , 2010 , 490, 160-165	5.7	193
49	Effect of Al addition on mechanical properties and microstructure of refractory AlxHfNbTaTiZr alloys. <i>Journal of Alloys and Compounds</i> , 2015 , 624, 100-107	5.7	146
48	Thermal Stability and Performance of NbSiTaTiZr High-Entropy Alloy Barrier for Copper Metallization. <i>Journal of the Electrochemical Society</i> , 2011 , 158, H1161	3.9	127
47	Tensile deformation behavior and deformation twinning of an equimolar CoCrFeMnNi high-entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 689, 122-133	5.3	109
46	Solution strengthening of ductile refractory HfMo _x NbTaTiZr high-entropy alloys. <i>Materials Letters</i> , 2016 , 175, 284-287	3.3	97
45	Simultaneously increasing the strength and ductility of a refractory high-entropy alloy via grain refining. <i>Materials Letters</i> , 2016 , 184, 200-203	3.3	89
44	Effect of heavy cryo-rolling on the evolution of microstructure and texture during annealing of equiatomic CoCrFeMnNi high entropy alloy. <i>Intermetallics</i> , 2016 , 69, 1-9	3.5	82
43	Experiments and Model for Serration Statistics in Low-Entropy, Medium-Entropy, and High-Entropy Alloys. <i>Scientific Reports</i> , 2015 , 5, 16997	4.9	81
42	On microstructure and mechanical performance of AlCoCrFeMo _{0.5} Ni _x high-entropy alloys. <i>Intermetallics</i> , 2013 , 32, 401-407	3.5	70
41	Alloying behavior of binary to octonary alloys based on CuNiAlCoCrFeTiMo during mechanical alloying. <i>Journal of Alloys and Compounds</i> , 2009 , 477, 696-705	5.7	69
40	Effect of the substitution of Co by Mn in Al-Cr-Cu-Fe-Co-Ni high-entropy alloys. <i>European Journal of Control</i> , 2006 , 31, 685-698	2.5	69

39	Morphology, structure and composition of precipitates in Al _{0.3} CoCrCu _{0.5} FeNi high-entropy alloy. <i>Intermetallics</i> , 2013 , 32, 329-336	3.5	64
38	Temperature Effects on Deformation and Serration Behavior of High-Entropy Alloys (HEAs). <i>Jom</i> , 2014 , 66, 2002-2008	2.1	62
37	Amorphization of equimolar alloys with HCP elements during mechanical alloying. <i>Journal of Alloys and Compounds</i> , 2010 , 506, 210-215	5.7	61
36	Grain growth and Hall-Petch relationship in a refractory HfNbTaZrTi high-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2019 , 795, 19-26	5.7	60
35	Strong amorphization of high-entropy AlBCrSiTi nitride film. <i>Thin Solid Films</i> , 2012 , 520, 2613-2618	2.2	56
34	Superior Oxidation Resistance of (Al _{0.34} Cr _{0.22} Nb _{0.11} Si _{0.11} Ti _{0.22}) ₅₀ N ₅₀ High-Entropy Nitride. <i>Journal of the Electrochemical Society</i> , 2013 , 160, C531-C535	3.9	54
33	A light-weight high-entropy alloy Al ₂₀ Be ₂₀ Fe ₁₀ Si ₁₅ Ti ₃₅ . <i>Science China Technological Sciences</i> , 2018 , 61, 184-188	3.5	53
32	Fatigue behavior of high-entropy alloys: A review. <i>Science China Technological Sciences</i> , 2018 , 61, 168-178	3.5	53
31	On the Solidification and Phase Stability of a Co-Cr-Fe-Ni-Ti High-Entropy Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 184-190	2.3	49
30	Compressive deformation behavior of CrMnFeCoNi high-entropy alloy. <i>Metals and Materials International</i> , 2016 , 22, 982-986	2.4	42
29	Intrinsic surface hardening and precipitation kinetics of Al _{0.3} CrFe _{1.5} MnNi _{0.5} multi-component alloy. <i>Journal of Alloys and Compounds</i> , 2013 , 551, 12-18	5.7	32
28	Effects of Mo, Nb, Ta, Ti, and Zr on Mechanical Properties of Equiatomic Hf-Mo-Nb-Ta-Ti-Zr Alloys. <i>Entropy</i> , 2018 , 21,	2.8	30
27	Microstructure and aging behaviour of Al ₅ Cr ₃₂ Fe ₃₅ Ni ₂₂ Ti ₆ high entropy alloy. <i>Materials Science and Technology</i> , 2015 , 31, 1165-1170	1.5	28
26	The effect of heating rate on microstructure and texture formation during annealing of heavily cold-rolled equiatomic CoCrFeMnNi high entropy alloy. <i>Journal of Alloys and Compounds</i> , 2016 , 688, 752-761	5.7	28
25	Portevin-Le Chatelier mechanism in face-centered-cubic metallic alloys from low to high entropy. <i>International Journal of Plasticity</i> , 2019 , 122, 212-224	7.6	27
24	Effects of silicon content on the structure and mechanical properties of (AlCrTaTiZr) ₅₀ Si ₅₀ coatings by reactive RF magnetron sputtering. <i>Journal Physics D: Applied Physics</i> , 2011 , 44, 205405	3	25
23	New TiC/Co _{1.5} CrFeNi _{1.5} Ti _{0.5} Cermet with Slow TiC Coarsening During Sintering. <i>Jom</i> , 2014 , 66, 2050-2056	2.5	22
22	Peierls barrier characteristic and anomalous strain hardening provoked by dynamic-strain-aging strengthening in a body-centered-cubic high-entropy alloy. <i>Materials Research Letters</i> , 2019 , 7, 475-481	7.4	18

21	Structural evolution during mechanical milling and subsequent annealing of CuNiAlCoCrBeTi alloys. <i>Materials Chemistry and Physics</i> , 2009 , 118, 354-361	4.4	18
20	Effect of cellular structure on the mechanical property of Al _{0.2} Co _{1.5} CrFeNi _{1.5} Ti _{0.3} high-entropy alloy. <i>Materials Chemistry and Physics</i> , 2018 , 210, 103-110	4.4	17
19	Element Effects on High-Entropy Alloy Vacancy and Heterogeneous Lattice Distortion Subjected to Quasi-equilibrium Heating. <i>Scientific Reports</i> , 2019 , 9, 14788	4.9	16
18	Microstructure and tensile properties of Al _{0.5} CoCrCuFeNi alloys produced by simple rolling and annealing. <i>Materials Science and Technology</i> , 2015 , 31, 1178-1183	1.5	16
17	Effect of Atomic Size Difference on the Microstructure and Mechanical Properties of High-Entropy Alloys. <i>Entropy</i> , 2018 , 20,	2.8	16
16	Heterogeneous structure-induced strength-ductility synergy by partial recrystallization during friction stir welding of a high-entropy alloy. <i>Materials and Design</i> , 2021 , 197, 109238	8.1	15
15	Deviatoric deformation kinetics in high entropy alloy under hydrostatic compression. <i>Journal of Alloys and Compounds</i> , 2019 , 792, 116-121	5.7	13
14	Improvement in oxidation behavior of Al _{0.2} Co _{1.5} CrFeNi _{1.5} Ti _{0.3} high-entropy superalloys by minor Nb addition. <i>Journal of Alloys and Compounds</i> , 2020 , 825, 153983	5.7	13
13	Evolution of microstructure and crystallographic texture in severely cold rolled high entropy equiatomic CoCrFeMnNi alloy during annealing. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015 , 82, 012068	0.4	11
12	Effect of Ge addition on the microstructure, mechanical properties, and corrosion behavior of CoCrFeNi high-entropy alloys. <i>Intermetallics</i> , 2021 , 132, 107167	3.5	11
11	Element Effects of Mn and Ge on the Tuning of Mechanical Properties of High-Entropy Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 5023-5028	2.3	7
10	High-temperature martensitic transformation of CuNiHfTiZr high- entropy alloys. <i>Scientific Reports</i> , 2019 , 9, 19598	4.9	7
9	High-temperature shape memory properties of Cu ₁₅ Ni ₃₅ Ti ₂₅ Hf _{12.5} Zr _{12.5} high-entropy alloy. <i>Journal of Materials Research and Technology</i> , 2021 , 14, 1235-1242	5.5	5
8	Study on the damping behaviour of eutectic high-entropy alloys with lamellar structures. <i>Philosophical Magazine Letters</i> , 2019 , 99, 226-234	1	4
7	Isothermal Oxidation of Aluminized Coatings on High-Entropy Alloys. <i>Entropy</i> , 2016 , 18, 376	2.8	3
6	Effects of rotational speed on the Al _{0.3} CoCrCu _{0.3} FeNi high-entropy alloy by friction stir welding. <i>High Temperature Materials and Processes</i> , 2020 , 39, 556-566	0.9	2
5	Design of corrosion-resistant high-entropy alloys through valence electron concentration and new PHACOMP. <i>Journal of Alloys and Compounds</i> , 2021 , 883, 160787	5.7	2
4	Disordering of L12 Phase in High-Entropy Alloy Deformed at Cryogenic Temperature. <i>Advanced Engineering Materials</i> , 2021 , 23, 2100564	3.5	1

- 3 Microstructure and mechanical properties of medium-entropy alloys with a high-density β 024 phase. *Materials Characterization*, **2022**, 185, 111713 3.9 ○
- 2 An effective and efficient model for temperature and molding appearance analyses for selective laser melting process. *Journal of Materials Processing Technology*, **2021**, 294, 117109 5.3 ○
- 1 On the Solidification and Phase Stability of a Co-Cr-Fe-Ni-Ti High-Entropy Alloy 1155-1162