

Che Wei Tsai

List of Publications by Year in descending order

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117453

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2828
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#	ARTICLE	IF	CITATIONS
1	Fatigue behavior of Al _{0.5} CoCrCuFeNi high entropy alloys. <i>Acta Materialia</i> , 2012, 60, 5723-5734.	3.8	646
2	Microstructure and texture evolution during annealing of equiatomic CoCrFeMnNi high-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2014, 587, 544-552.	2.8	413
3	Enhanced mechanical properties of HfMoTaTiZr and HfMoNbTaTiZr refractory high-entropy alloys. <i>Intermetallics</i> , 2015, 62, 76-83.	1.8	407
4	Fatigue behavior of a wrought Al _{0.5} CoCrCuFeNi two-phase high-entropy alloy. <i>Acta Materialia</i> , 2015, 99, 247-258.	3.8	355
5	Criterion for Sigma Phase Formation in Cr- and V-Containing High-Entropy Alloys. <i>Materials Research Letters</i> , 2013, 1, 207-212.	4.1	280
6	Deformation and annealing behaviors of high-entropy alloy Al _{0.5} CoCrCuFeNi. <i>Journal of Alloys and Compounds</i> , 2009, 486, 427-435.	2.8	263
7	Effect of temperature on mechanical properties of Al _{0.5} CoCrCuFeNi wrought alloy. <i>Journal of Alloys and Compounds</i> , 2010, 490, 160-165.	2.8	241
8	Effect of Al addition on mechanical properties and microstructure of refractory Al _x HfNbTaTiZr alloys. <i>Journal of Alloys and Compounds</i> , 2015, 624, 100-107.	2.8	201
9	Simultaneously increasing the strength and ductility of a refractory high-entropy alloy via grain refining. <i>Materials Letters</i> , 2016, 184, 200-203.	1.3	168
10	Thermal Stability and Performance of NbSiTaTiZr High-Entropy Alloy Barrier for Copper Metallization. <i>Journal of the Electrochemical Society</i> , 2011, 158, H1161.	1.3	166
11	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.	2.6	166
12	Solution strengthening of ductile refractory HfMo _x NbTaTiZr high-entropy alloys. <i>Materials Letters</i> , 2016, 175, 284-287.	1.3	144
13	Grain growth and Hall-Petch relationship in a refractory HfNbTaZrTi high-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2019, 795, 19-26.	2.8	123
14	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.	1.8	108
15	Experiments and Model for Serration Statistics in Low-Entropy, Medium-Entropy and High-Entropy Alloys. <i>Scientific Reports</i> , 2015, 5, 16997.	1.6	103
16	On microstructure and mechanical performance of AlCoCrFeMo _{0.5} Ni _x high-entropy alloys. <i>Intermetallics</i> , 2013, 32, 401-407.	1.8	92
17	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.	2.0	89
18	Alloying behavior of binary to octonary alloys based on Cu–Ni–Al–Co–Cr–Fe–Ti–Mo during mechanical alloying. <i>Journal of Alloys and Compounds</i> , 2009, 477, 696-705.	2.8	85

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19	Superior Oxidation Resistance of $(\text{Al}_{0.34}\text{Cr}_{0.22}\text{Nb}_{0.11}\text{Si}_{0.11}\text{Ti}_{0.22})_{50}\text{Ni}_{50}$ Nitride. Journal of the Electrochemical Society, 2013, 160, C531-C535.	1.8	50
20	Morphology, structure and composition of precipitates in $\text{Al}_{0.3}\text{CoCrCu}_{0.5}\text{FeNi}$ high-entropy alloy. Intermetallics, 2013, 32, 329-336.	1.8	82
21	Strong amorphization of high-entropy AlBCrSiTi nitride film. Thin Solid Films, 2012, 520, 2613-2618.	0.8	79
22	Amorphization of equimolar alloys with HCP elements during mechanical alloying. Journal of Alloys and Compounds, 2010, 506, 210-215.	2.8	78
23	Effects of Mo, Nb, Ta, Ti, and Zr on Mechanical Properties of Equiatomic Hf-Mo-Nb-Ta-Ti-Zr Alloys. Entropy, 2019, 21, 15.	1.1	78
24	Effect of the substitution of Co by Mn in Al-Cr-Cu-Fe-Co-Ni high-entropy alloys. European Journal of Control, 2006, 31, 685-698.	1.6	77
25	Temperature Effects on Deformation and Serration Behavior of High-Entropy Alloys (HEAs). Jom, 2014, 66, 2002-2008.	0.9	72
26	Fatigue behavior of high-entropy alloys: A review. Science China Technological Sciences, 2018, 61, 168-178.	2.0	71
27	On the Solidification and Phase Stability of a Co-Cr-Fe-Ni-Ti High-Entropy Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 184-190.	1.1	62
28	Compressive deformation behavior of CrMnFeCoNi high-entropy alloy. Metals and Materials International, 2016, 22, 982-986.	1.8	59
29	Portevin-Le Chatelier mechanism in face-centered-cubic metallic alloys from low to high entropy. International Journal of Plasticity, 2019, 122, 212-224.	4.1	51
30	Intrinsic surface hardening and precipitation kinetics of $\text{Al}_{0.3}\text{CrFe}_{1.5}\text{MnNi}_{0.5}$ multi-component alloy. Journal of Alloys and Compounds, 2013, 551, 12-18.	2.8	50
31	Heterogeneous structure-induced strength-ductility synergy by partial recrystallization during friction stir welding of a high-entropy alloy. Materials and Design, 2021, 197, 109238.	3.3	46
32	Microstructure and aging behaviour of $\text{Al}_{5}\text{Cr}_{32}\text{Fe}_{35}\text{Ni}_{22}\text{Ti}_{6}$ high entropy alloy. Materials Science and Technology, 2015, 31, 1165-1170.	0.8	42
33	The effect of heating rate on microstructure and texture formation during annealing of heavily cold-rolled equiatomic CoCrFeMnNi high entropy alloy. Journal of Alloys and Compounds, 2016, 688, 752-761.	2.8	41
34	Effect of cellular structure on the mechanical property of $\text{Al}_{0.2}\text{Co}_{1.5}\text{CrFeNi}_{1.5}\text{Ti}_{0.3}$ high-entropy alloy. Materials Chemistry and Physics, 2018, 210, 103-110.	2.0	38
35	Effects of silicon content on the structure and mechanical properties of $(\text{AlCrTaTiZr})_{x}\text{Si}_{1-x}\text{N}$ coatings by reactive RF magnetron sputtering. Journal Physics D: Applied Physics, 2011, 44, 205405.	1.3	36
36	Effect of Atomic Size Difference on the Microstructure and Mechanical Properties of High-Entropy Alloys. Entropy, 2018, 20, 967.	1.1	34

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37	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.	2.8	32
38	Effect of Ge addition on the microstructure, mechanical properties, and corrosion behavior of CoCrFeNi high-entropy alloys. <i>Intermetallics</i> , 2021, 132, 107167.	1.8	32
39	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.	4.1	29
40	Element Effects on High-Entropy Alloy Vacancy and Heterogeneous Lattice Distortion Subjected to Quasi-equilibrium Heating. <i>Scientific Reports</i> , 2019, 9, 14788.	1.6	27
41	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.	0.9	22
42	Structural evolution during mechanical milling and subsequent annealing of Cuâ€“Niâ€“Alâ€“Coâ€“Crâ€“Feâ€“Ti alloys. <i>Materials Chemistry and Physics</i> , 2009, 118, 354-361.	2.0	21
43	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.	0.8	20
44	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.	2.6	17
45	High-temperature martensitic transformation of CuNiHfTiZr high- entropy alloys. <i>Scientific Reports</i> , 2019, 9, 19598.	1.6	14
46	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.	0.3	13
47	Deviatoric deformation kinetics in high entropy alloy under hydrostatic compression. <i>Journal of Alloys and Compounds</i> , 2019, 792, 116-121.	2.8	13
48	Study on the damping behaviour of eutectic high-entropy alloys with lamellar structures. <i>Philosophical Magazine Letters</i> , 2019, 99, 226-234.	0.5	12
49	Design of corrosion-resistant high-entropy alloys through valence electron concentration and new PHACOMP. <i>Journal of Alloys and Compounds</i> , 2021, 883, 160787.	2.8	12
50	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.	1.1	11
51	Microstructure and mechanical properties of medium-entropy alloys with a high-density Î-D024 phase. <i>Materials Characterization</i> , 2022, 185, 111713.	1.9	9
52	Effect of Mo on the Mechanical and Corrosion Behaviors in Non-Equal Molar AlCrFeMnNi BCC High-Entropy Alloys. <i>Materials</i> , 2022, 15, 751.	1.3	6
53	Isothermal Oxidation of Aluminized Coatings on High-Entropy Alloys. <i>Entropy</i> , 2016, 18, 376.	1.1	5
54	Disordering of L1₂ Phase in Highâ€“Entropy Alloy Deformed at Cryogenic Temperature. <i>Advanced Engineering Materials</i> , 2021, 23, 2100564.	1.6	5

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55	Effects of rotational speed on the Al _{0.3} CoCrCu _{0.3} FeNi high-entropy alloy by friction stir welding. High Temperature Materials and Processes, 2020, 39, 556-566.	0.6	5
56	An effective and efficient model for temperature and molding appearance analyses for selective laser melting process. Journal of Materials Processing Technology, 2021, 294, 117109.	3.1	4
57	High-Temperature Tribological Behavior of Al _{0.3} Cr _{0.5} Fe _{1.5} Mn _{0.5} Ni High-Entropy Alloys With Addition of Titanium and Carbon. Frontiers in Materials, 2022, 8, .	1.2	2
58	Scanning Nano Beam Electron Diffraction and Applications to Characterization of High Entropy Alloys. Microscopy and Microanalysis, 2013, 19, 720-721.	0.2	0
59	A Two-Step Microwave Annealing Process for PAN Pre-Oxidation through a TM-Mode Cavity. Polymers, 2021, 13, 1476.	2.0	0