

# Che Wei Tsai

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Microstructure and mechanical properties of medium-entropy alloys with a high-density ED024 phase. <i>Materials Characterization</i> , <b>2022</b> , 185, 111713	3.9	0
55	Effect of Ge addition on the microstructure, mechanical properties, and corrosion behavior of CoCrFeNi high-entropy alloys. <i>Intermetallics</i> , <b>2021</b> , 132, 107167	3.5	11
54	Heterogeneous structure-induced strength-ductility synergy by partial recrystallization during friction stir welding of a high-entropy alloy. <i>Materials and Design</i> , <b>2021</b> , 197, 109238	8.1	15
53	An effective and efficient model for temperature and molding appearance analyses for selective laser melting process. <i>Journal of Materials Processing Technology</i> , <b>2021</b> , 294, 117109	5.3	0
52	High-temperature shape memory properties of Cu <sub>15</sub> Ni <sub>35</sub> Ti <sub>25</sub> Hf <sub>12.5</sub> Zr <sub>12.5</sub> high-entropy alloy. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 14, 1235-1242	5.5	5
51	Design of corrosion-resistant high-entropy alloys through valence electron concentration and new PHACOMP. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 883, 160787	5.7	2
50	Improvement in oxidation behavior of Al <sub>0.2</sub> Co <sub>1.5</sub> CrFeNi <sub>1.5</sub> Ti <sub>0.3</sub> high-entropy superalloys by minor Nb addition. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 825, 153983	5.7	13
49	Effects of rotational speed on the Al <sub>0.3</sub> CoCrCu <sub>0.3</sub> FeNi high-entropy alloy by friction stir welding. <i>High Temperature Materials and Processes</i> , <b>2020</b> , 39, 556-566	0.9	2
48	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> , <b>2020</b> , 51, 5023-5028	2.3	7
47	Study on the damping behaviour of eutectic high-entropy alloys with lamellar structures. <i>Philosophical Magazine Letters</i> , <b>2019</b> , 99, 226-234	1	4
46	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> , <b>2019</b> , 7, 475-481	7.4	18
45	Grain growth and Hall-Petch relationship in a refractory HfNbTaZrTi high-entropy alloy. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 795, 19-26	5.7	60
44	Deviatoric deformation kinetics in high entropy alloy under hydrostatic compression. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 792, 116-121	5.7	13
43	Portevin-Le Chatelier mechanism in face-centered-cubic metallic alloys from low to high entropy. <i>International Journal of Plasticity</i> , <b>2019</b> , 122, 212-224	7.6	27
42	Element Effects on High-Entropy Alloy Vacancy and Heterogeneous Lattice Distortion Subjected to Quasi-equilibrium Heating. <i>Scientific Reports</i> , <b>2019</b> , 9, 14788	4.9	16
41	High-temperature martensitic transformation of CuNiHfTiZr high-entropy alloys. <i>Scientific Reports</i> , <b>2019</b> , 9, 19598	4.9	7
40	A light-weight high-entropy alloy Al <sub>20</sub> Be <sub>20</sub> Fe <sub>10</sub> Si <sub>15</sub> Ti <sub>35</sub> . <i>Science China Technological Sciences</i> , <b>2018</b> , 61, 184-188	3.5	53

39	Effect of cellular structure on the mechanical property of Al <sub>0.2</sub> Co <sub>1.5</sub> CrFeNi <sub>1.5</sub> Ti <sub>0.3</sub> high-entropy alloy. <i>Materials Chemistry and Physics</i> , <b>2018</b> , 210, 103-110	4.4	17
38	Effects of Mo, Nb, Ta, Ti, and Zr on Mechanical Properties of Equiatomic Hf-Mo-Nb-Ta-Ti-Zr Alloys. <i>Entropy</i> , <b>2018</b> , 21,	2.8	30
37	Fatigue behavior of high-entropy alloys: A review. <i>Science China Technological Sciences</i> , <b>2018</b> , 61, 168-178.	3.5	53
36	Effect of Atomic Size Difference on the Microstructure and Mechanical Properties of High-Entropy Alloys. <i>Entropy</i> , <b>2018</b> , 20,	2.8	16
35	Tensile deformation behavior and deformation twinning of an equimolar CoCrFeMnNi high-entropy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 689, 122-133	5.3	109
34	Simultaneously increasing the strength and ductility of a refractory high-entropy alloy via grain refining. <i>Materials Letters</i> , <b>2016</b> , 184, 200-203	3.3	89
33	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> , <b>2016</b> , 688, 752-761	5.7	28
32	Compressive deformation behavior of CrMnFeCoNi high-entropy alloy. <i>Metals and Materials International</i> , <b>2016</b> , 22, 982-986	2.4	42
31	Solution strengthening of ductile refractory HfMo <sub>x</sub> NbTaTiZr high-entropy alloys. <i>Materials Letters</i> , <b>2016</b> , 175, 284-287	3.3	97
30	Effect of heavy cryo-rolling on the evolution of microstructure and texture during annealing of equiatomic CoCrFeMnNi high entropy alloy. <i>Intermetallics</i> , <b>2016</b> , 69, 1-9	3.5	82
29	Isothermal Oxidation of Aluminized Coatings on High-Entropy Alloys. <i>Entropy</i> , <b>2016</b> , 18, 376	2.8	3
28	Enhanced mechanical properties of HfMoTaTiZr and HfMoNbTaTiZr refractory high-entropy alloys. <i>Intermetallics</i> , <b>2015</b> , 62, 76-83	3.5	273
27	Microstructure and aging behaviour of Al <sub>5</sub> Cr <sub>32</sub> Fe <sub>35</sub> Ni <sub>22</sub> Ti <sub>6</sub> high entropy alloy. <i>Materials Science and Technology</i> , <b>2015</b> , 31, 1165-1170	1.5	28
26	Fatigue behavior of a wrought Al <sub>0.5</sub> CoCrCuFeNi two-phase high-entropy alloy. <i>Acta Materialia</i> , <b>2015</b> , 99, 247-258	8.4	255
25	Effect of Al addition on mechanical properties and microstructure of refractory Al <sub>x</sub> HfNbTaTiZr alloys. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 624, 100-107	5.7	146
24	Experiments and Model for Serration Statistics in Low-Entropy, Medium-Entropy, and High-Entropy Alloys. <i>Scientific Reports</i> , <b>2015</b> , 5, 16997	4.9	81
23	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> , <b>2015</b> , 82, 012068	0.4	11
22	Microstructure and tensile properties of Al <sub>0.5</sub> CoCrCuFeNi alloys produced by simple rolling and annealing. <i>Materials Science and Technology</i> , <b>2015</b> , 31, 1178-1183	1.5	16

21	Microstructure and texture evolution during annealing of equiatomic CoCrFeMnNi high-entropy alloy. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 587, 544-552	5-7	321
20	Temperature Effects on Deformation and Serration Behavior of High-Entropy Alloys (HEAs). <i>Jom</i> , <b>2014</b> , 66, 2002-2008	2-1	62
19	New TiC/Co <sub>1.5</sub> CrFeNi <sub>1.5</sub> Ti <sub>0.5</sub> Cermet with Slow TiC Coarsening During Sintering. <i>Jom</i> , <b>2014</b> , 66, 2050-2056	2-5	22
18	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> , <b>2014</b> , 45, 184-190	2-3	49
17	Intrinsic surface hardening and precipitation kinetics of Al <sub>0.3</sub> CrFe <sub>1.5</sub> MnNi <sub>0.5</sub> multi-component alloy. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 551, 12-18	5-7	32
16	Criterion for Sigma Phase Formation in Cr- and V-Containing High-Entropy Alloys. <i>Materials Research Letters</i> , <b>2013</b> , 1, 207-212	7-4	196
15	Morphology, structure and composition of precipitates in Al <sub>0.3</sub> CoCrCu <sub>0.5</sub> FeNi high-entropy alloy. <i>Intermetallics</i> , <b>2013</b> , 32, 329-336	3-5	64
14	On microstructure and mechanical performance of AlCoCrFeMo <sub>0.5</sub> Nix high-entropy alloys. <i>Intermetallics</i> , <b>2013</b> , 32, 401-407	3-5	70
13	Superior Oxidation Resistance of (Al <sub>0.34</sub> Cr <sub>0.22</sub> Nb <sub>0.11</sub> Si <sub>0.11</sub> Ti <sub>0.22</sub> ) <sub>50</sub> N <sub>50</sub> High-Entropy Nitride. <i>Journal of the Electrochemical Society</i> , <b>2013</b> , 160, C531-C535	3-9	54
12	Strong amorphization of high-entropy AlBCrSiTi nitride film. <i>Thin Solid Films</i> , <b>2012</b> , 520, 2613-2618	2-2	56
11	Fatigue behavior of Al <sub>0.5</sub> CoCrCuFeNi high entropy alloys. <i>Acta Materialia</i> , <b>2012</b> , 60, 5723-5734	8-4	492
10	Thermal Stability and Performance of NbSiTaTiZr High-Entropy Alloy Barrier for Copper Metallization. <i>Journal of the Electrochemical Society</i> , <b>2011</b> , 158, H1161	3-9	127
9	Effects of silicon content on the structure and mechanical properties of (AlCrTaTiZr) <sub>6</sub> Si <sub>x</sub> Ni coatings by reactive RF magnetron sputtering. <i>Journal Physics D: Applied Physics</i> , <b>2011</b> , 44, 205405	3	25
8	Effect of temperature on mechanical properties of Al <sub>0.5</sub> CoCrCuFeNi wrought alloy. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 490, 160-165	5-7	193
7	Amorphization of equimolar alloys with HCP elements during mechanical alloying. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 506, 210-215	5-7	61
6	Structural evolution during mechanical milling and subsequent annealing of CuNiAlCoCrBeTi alloys. <i>Materials Chemistry and Physics</i> , <b>2009</b> , 118, 354-361	4-4	18
5	Alloying behavior of binary to octonary alloys based on CuNiAlCoCrBeTiMo during mechanical alloying. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 477, 696-705	5-7	69
4	Deformation and annealing behaviors of high-entropy alloy Al <sub>0.5</sub> CoCrCuFeNi. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 486, 427-435	5-7	215

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| 3 | Effect of the substitution of Co by Mn in Al-Cr-Cu-Fe-Co-Ni high-entropy alloys. <i>European Journal of Control</i> , <b>2006</b> , 31, 685-698 | 2.5 | 69 |
| 2 | On the Solidification and Phase Stability of a Co-Cr-Fe-Ni-Ti High-Entropy Alloy1155-1162   |     |    |
| 1 | Disordering of L12 Phase in High-Entropy Alloy Deformed at Cryogenic Temperature. <i>Advanced Engineering Materials</i> ,2100564                | 3.5 | 1  |