

Ming-Hung 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.

48
papers

6,268
citations

32
h-index

49
g-index

49
ext. papers

7,752
ext. citations

4.4
avg, IF

6.46
L-index

#	Paper	IF	Citations
48	On the phase constituents of three CoCrFeNiX (X = Cr, Mo, W) high-entropy alloys after prolonged annealing. <i>Materials Chemistry and Physics</i> , 2022 , 276, 125431	4.4	1
47	On the phase constituents of three CoCrFeNiX (X = B, Al, Ga) high-entropy alloys after prolonged annealing. <i>Journal of Alloys and Compounds</i> , 2022 , 900, 163388	5.7	
46	Effect of Cu on the interfacial reaction between Sn-based solders and FeCoNiCu alloys. <i>Intermetallics</i> , 2022 , 144, 107530	3.5	2
45	Quantitative prediction of solid solubility limit in single phase high-entropy alloys. <i>Applied Physics Letters</i> , 2021 , 119, 141906	3.4	2
44	Mechanical and thermodynamic data-driven design of Al-Co-Cr-Fe-Ni multi-principal element alloys. <i>Materials Today Communications</i> , 2021 , 26, 102096	2.5	5
43	Lattice distortion and atomic ordering of the sigma precipitates in CoCrFeNiMo high-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2021 , 851, 156909	5.7	12
42	Refractory high entropy superalloys (RSAs). <i>Scripta Materialia</i> , 2020 , 187, 445-452	5.6	43
41	On the phase constituents of three CoCrFeNiX (X = V, Nb, Ta) high-entropy alloys after prolonged annealing. <i>Journal of Alloys and Compounds</i> , 2020 , 823, 153524	5.7	18
40	On the phase constituents of four CoCrFeNiX (X = Y, Ti, Zr, Hf) high-entropy alloys after prolonged annealing. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 11231-11243	5.5	2
39	Theories for predicting simple solid solution high-entropy alloys: Classification, accuracy, and important factors impacting accuracy. <i>Scripta Materialia</i> , 2020 , 188, 80-87	5.6	27
38	Corrosion mechanism of annealed equiatomic AlCoCrFeNi tri-phase high-entropy alloy in 0.5 M H ₂ SO ₄ aerated aqueous solution. <i>Corrosion Science</i> , 2019 , 157, 462-471	6.8	34
37	Intermetallic Phases in High-Entropy Alloys: Statistical Analysis of their Prevalence and Structural Inheritance. <i>Metals</i> , 2019 , 9, 247	2.3	33
36	Reply to comments on "Sluggish diffusion in Co-Cr-Fe-Mn-Ni high-entropy alloys" by K.Y. Tsai, M.H. Tsai and J.W. Yeh, Acta Materialia 61 (2013) 4887-4897. <i>Scripta Materialia</i> , 2017 , 135, 158-159	5.6	19
35	Effect of atomic size difference on the type of major intermetallic phase in arc-melted CoCrFeNiX high-entropy alloys. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 1479-1487	5.7	46
34	Incorrect predictions of simple solid solution high entropy alloys: Cause and possible solution. <i>Scripta Materialia</i> , 2017 , 127, 6-9	5.6	41
33	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
32	Atomic-scale homogenization in an fcc-based high-entropy alloy via severe plastic deformation. <i>Journal of Alloys and Compounds</i> , 2016 , 686, 15-23	5.7	15

31	Solution strengthening of ductile refractory HfMo x NbTaTiZr high-entropy alloys. <i>Materials Letters</i> , 2016 , 175, 284-287	3.3	97
30	A second criterion for sigma phase formation in high-entropy alloys. <i>Materials Research Letters</i> , 2016 , 4, 90-95	7.4	83
29	Three Strategies for the Design of Advanced High-Entropy Alloys. <i>Entropy</i> , 2016 , 18, 252	2.8	40
28	High-Entropy Coatings 2016 , 469-491		4
27	Enhanced mechanical properties of HfMoTaTiZr and HfMoNbTaTiZr refractory high-entropy alloys. <i>Intermetallics</i> , 2015 , 62, 76-83	3.5	273
26	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
25	Machining Performance of Sputter-Deposited (Al _{0.34} Cr _{0.22} Nb _{0.11} Si _{0.11} Ti _{0.22}) ₅₀ N ₅₀ High-Entropy Nitride Coatings. <i>Coatings</i> , 2015 , 5, 312-325	2.9	32
24	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
23	High-Entropy Alloys: A Critical Review. <i>Materials Research Letters</i> , 2014 , 2, 107-123	7.4	1431
22	Ultrastrong Mg Alloy via Nano-spaced Stacking Faults. <i>Materials Research Letters</i> , 2013 , 1, 61-66	7.4	204
21	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
20	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
19	Physical Properties of High Entropy Alloys. <i>Entropy</i> , 2013 , 15, 5338-5345	2.8	161
18	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
17	Structure and properties of two Al _{0.3} CrNbSiTi high-entropy nitride coatings. <i>Surface and Coatings Technology</i> , 2013 , 221, 118-123	4.4	83
16	Significant hardening due to the formation of a sigma phase matrix in a high entropy alloy. <i>Intermetallics</i> , 2013 , 33, 81-86	3.5	112
15	Sluggish diffusion in Co _{0.3} CrFeMnNi high-entropy alloys. <i>Acta Materialia</i> , 2013 , 61, 4887-4897	8.4	1049
14	Dislocations with edge components in nanocrystalline bcc Mo. <i>Journal of Materials Research</i> , 2013 , 28, 1820-1826	2.5	21

13	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
12	Effect of nitrogen content and substrate bias on mechanical and corrosion properties of high-entropy films (AlCrSiTiZr) _{100-x} N _x . <i>Surface and Coatings Technology</i> , 2012 , 206, 4106-4112	4.4	104
11	Strong amorphization of high-entropy AlBCrSiTi nitride film. <i>Thin Solid Films</i> , 2012 , 520, 2613-2618	2.2	56
10	Effects of substrate bias on the structure and mechanical properties of (Al _{1.5} CrNb _{0.5} Si _{0.5} Ti) _{N_x} coatings. <i>Thin Solid Films</i> , 2012 , 520, 6183-6188	2.2	60
9	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
8	Microstructure and wear behavior of Al _x Co _{1.5} CrFeNi _{1.5} Ti _y high-entropy alloys. <i>Acta Materialia</i> , 2011 , 59, 6308-6317	8.4	786
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	5.7	193
6	Evolution of structure and properties of multi-component (AlCrTaTiZr) _{O_x} films. <i>Thin Solid Films</i> , 2010 , 518, 2732-2737	2.2	59
5	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
4	Effects of nitrogen flow ratio on the structure and properties of reactively sputtered (AlMoNbSiTaTiVZr) _{N_x} coatings. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 235402	3	39
3	Thermally stable amorphous (AlMoNbSiTaTiVZr) ₅₀ N ₅₀ nitride film as diffusion barrier in copper metallization. <i>Applied Physics Letters</i> , 2008 , 92, 052109	3.4	74
2	Diffusion barrier properties of AlMoNbSiTaTiVZr high-entropy alloy layer between copper and silicon. <i>Thin Solid Films</i> , 2008 , 516, 5527-5530	2.2	121
1	Influence of substrate temperature on structure and mechanical, properties of multi-element (AlCrTaTiZr) _N coatings. <i>Surface and Coatings Technology</i> , 2007 , 201, 6993-6998	4.4	64