

# An-Chou Yeh

## List of Publications by Year in descending order

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Version: 2024-02-01

80  
papers

2,353  
citations

201385

27  
h-index

233125

45  
g-index

88  
all docs

88  
docs citations

88  
times ranked

1726  
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of intrinsic stacking fault in facilitating the pressure-induced phase transition in CoCrFeMnNi high entropy alloys. <i>Materials Chemistry and Physics</i> , 2022, 275, 125273.	2.0	2
2	Revealing the Precipitation Sequence with Aging Temperature in a Non-equiatomic AlCoCrFeNi High Entropy Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2022, 53, 314-321.	1.1	15
3	Grain-size-dependent microstructure effects on cyclic deformation mechanisms in CoCrFeMnNi high-entropy-alloys. <i>Scripta Materialia</i> , 2022, 210, 114459.	2.6	16
4	Tensile Response of As-Cast CoCrFeNi and CoCrFeMnNi High-Entropy Alloys. <i>Crystals</i> , 2022, 12, 157.	1.0	6
5	Elemental effects on the oxidation of refractory compositionally complex alloys. <i>International Journal of Refractory Metals and Hard Materials</i> , 2022, 108, 105918.	1.7	7
6	Tensile creep behavior of HfNbTaTiZr refractory high entropy alloy at elevated temperatures. <i>Acta Materialia</i> , 2022, 237, 118188.	3.8	27
7	Influence of pre-deformation on the precipitation characteristics of aged non-equiatomic Co <sub>1.5</sub> CrFeNi <sub>1.5</sub> high entropy alloys with Ti and Al additions. <i>Journal of Alloys and Compounds</i> , 2021, 855, 157521.	2.8	29
8	Modeling the precipitation processes and the formation of hierarchical microstructures in a single crystal high entropy superalloy. <i>Scripta Materialia</i> , 2021, 193, 147-152.	2.6	16
9	Effect of processing parameters on the fractions of martensite in 17-4APH stainless steel fabricated by selective laser melting. <i>Journal of Alloys and Compounds</i> , 2021, 859, 157758.	2.8	15
10	Reversal of favorable microstructure under plastic ploughing vs. interfacial shear induced wear in aged Co <sub>1.5</sub> CrFeNi <sub>1.5</sub> Ti <sub>0.5</sub> high-entropy alloy. <i>Wear</i> , 2021, 468-469, 203595.	1.5	11
11	Understanding the Effects of CoAl <sub>2</sub> O <sub>4</sub> Inoculant Additions on Microstructure in Additively Manufactured Inconel 718 Processed Via Selective Laser Melting. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021, 52, 2630-2641.	1.1	8
12	The Dilution Effect in High-Power Disk Laser Welding the Steel Plate Using a Nickel-Based Filler Wire. <i>Metals</i> , 2021, 11, 874.	1.0	3
13	Insights into Defect-Mediated Nucleation of Equilibrium B2 Phase in Face-Centered Cubic High-Entropy Alloys. <i>Jom</i> , 2021, 73, 2320-2331.	0.9	5
14	An effective and efficient model for temperature and molding appearance analyses for selective laser melting process. <i>Journal of Materials Processing Technology</i> , 2021, 294, 117109.	3.1	4
15	Investigation on the thermal expansion behavior of FeCoNi and Fe <sub>30</sub> Co <sub>30</sub> Ni <sub>30</sub> Cr <sub>10-x</sub> Mn <sub>x</sub> high entropy alloys. <i>Materials Chemistry and Physics</i> , 2021, 271, 124907.	2.0	22
16	Insight to agglomeration and chemical reactions of CoAl <sub>2</sub> O <sub>4</sub> inoculants in IN718 processed by selective laser melting. <i>Journal of Alloys and Compounds</i> , 2021, 883, 160753.	2.8	8
17	Tensile Creep Behavior of Single-Crystal High-Entropy Superalloy at Intermediate Temperature. <i>Crystals</i> , 2021, 11, 28.	1.0	4
18	Dimensional stability of a metastable FCC high entropy alloy. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	4

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19	An Effective Strengthening Strategy of Nano Carbide Precipitation and Cellular Microstructure Refinement in a Superalloy Fabricated by Selective Laser Melting Process. <i>Metals</i> , 2021, 11, 1691.	1.0	6
20	Aging temperature role on precipitation hardening in a non-equiatomic AlCoCrFeNiTi high-entropy alloy. <i>Materials Science and Technology</i> , 2021, 37, 1270-1279.	0.8	6
21	Microstructure and tensile property of a precipitation strengthened high entropy alloy processed by selective laser melting and post heat treatment. <i>Additive Manufacturing</i> , 2020, 36, 101601.	1.7	14
22	Enhancement of fatigue resistance by overload-induced deformation twinning in a CoCrFeMnNi high-entropy alloy. <i>Acta Materialia</i> , 2020, 201, 412-424.	3.8	41
23	Hierarchical microstructure strengthening in a single crystal high entropy superalloy. <i>Scientific Reports</i> , 2020, 10, 12163.	1.6	21
24	Effect of Heat Treatments on the Microstructural Evolution of a Single Crystal High-Entropy Superalloy. <i>Metals</i> , 2020, 10, 1600.	1.0	7
25	Effects of CoAl <sub>2</sub> O <sub>4</sub> inoculants on microstructure and mechanical properties of IN718 processed by selective laser melting. <i>Additive Manufacturing</i> , 2020, 35, 101328.	1.7	10
26	Designing high entropy superalloys for elevated temperature application. <i>Scripta Materialia</i> , 2020, 187, 177-182.	2.6	52
27	Phase equilibria and thermodynamic assessment of the Mo-Nb-Re ternary system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2020, 70, 101797.	0.7	4
28	Oxidation behaviour of a novel refractory high entropy alloy at elevated temperatures. <i>Intermetallics</i> , 2020, 119, 106711.	1.8	36
29	Engineering multi-scale B <sub>2</sub> precipitation in a heterogeneous FCC based microstructure to enhance the mechanical properties of a Al <sub>0.5</sub> Co <sub>1.5</sub> CrFeNi <sub>1.5</sub> high entropy alloy. <i>Journal of Alloys and Compounds</i> , 2020, 830, 154707.	2.8	57
30	Effect of Carbide Inoculants Additions in IN718 Fabricated by Selective Laser Melting Process. <i>Minerals, Metals and Materials Series</i> , 2020, , 982-989.	0.3	7
31	Enhanced age hardening effects in FCC based Co <sub>1.5</sub> CrFeNi <sub>1.5</sub> high entropy alloys with varying Ti and Al contents. <i>Materialia</i> , 2020, 13, 100823.	1.3	14
32	Prediction of the Composition and Hardness of High-Entropy Alloys by Machine Learning. <i>Jom</i> , 2019, 71, 3433-3442.	0.9	88
33	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
34	Comparing Cyclic Tension-Compression Effects on CoCrFeMnNi High-Entropy Alloy and Ni-Based Superalloy. <i>Crystals</i> , 2019, 9, 420.	1.0	10
35	Microstructure and property of a selective laser melting process induced oxide dispersion strengthened 17-4 PH stainless steel. <i>Journal of Alloys and Compounds</i> , 2019, 803, 30-41.	2.8	65
36	An oxidation resistant refractory high entropy alloy protected by CrTaO <sub>4</sub> -based oxide. <i>Scientific Reports</i> , 2019, 9, 7266.	1.6	63

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37	Deviatoric deformation kinetics in high entropy alloy under hydrostatic compression. Journal of Alloys and Compounds, 2019, 792, 116-121.	2.8	13
38	On the microstructure and properties of an advanced cemented carbide system processed by selective laser melting. Journal of Alloys and Compounds, 2019, 782, 440-450.	2.8	42
39	Formation mechanism of Ni <sub>2</sub> Ti <sub>4</sub> O in NITI shape memory alloy. Materialia, 2019, 5, 100194.	1.3	39
40	Microstructure evolution induced by inoculants during the selective laser melting of IN718. Additive Manufacturing, 2018, 21, 465-471.	1.7	32
41	The formation of cellular precipitate and its effect on the tensile properties of a precipitation strengthened high entropy alloy. Materials Chemistry and Physics, 2018, 210, 111-119.	2.0	64
42	Evolution of high temperature yield strength of AlCoCrFeNiTi high entropy alloys. Procedia Manufacturing, 2018, 15, 364-371.	1.9	6
43	Microstructural Investigation of Oxidized Complex Refractory High Entropy Alloys. Materials Transactions, 2018, 59, 556-562.	0.4	7
44	Microstructure characterization of cemented carbide fabricated by selective laser melting process. International Journal of Refractory Metals and Hard Materials, 2018, 75, 225-233.	1.7	29
45	A Study of NiCo <sub>0.6</sub> Fe <sub>0.2</sub> Cr <sub>x</sub> SiAlTi <sub>y</sub> High-Entropy Alloys for Applications as a High-Temperature Protective Coating and a Bond Coat in Thermal Barrier Coating Systems. Journal of the Electrochemical Society, 2018, 165, C524-C531.	1.3	23
46	Effects of processing routes on room temperature tensile strength and elongation for Inconel 718. Materials and Design, 2017, 119, 235-243.	3.3	66
47	On the study of thermal-sprayed Ni <sub>0.2</sub> Co <sub>0.6</sub> Fe <sub>0.2</sub> CrSi <sub>0.2</sub> AlTi <sub>0.2</sub> HEA overlay coating. Surface and Coatings Technology, 2017, 316, 71-74.	2.2	79
48	The Microstructure Stability of Precipitation Strengthened Medium to High Entropy Superalloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 2435-2442.	1.1	38
49	The High Temperature Tensile and Creep Behaviors of High Entropy Superalloy. Scientific Reports, 2017, 7, 12658.	1.6	136
50	Effect of Titanium Addition on the Elemental Partitioning Behavior of Silicon in Ni-19 At. Pct Al-xSi-yTi Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 3920-3926.	1.1	1
51	On The Superior High Temperature Hardness of Precipitation Strengthened High Entropy Ni-Based Alloys. Advanced Engineering Materials, 2017, 19, 1600475.	1.6	42
52	High Temperature Oxidation and Corrosion Properties of High Entropy Superalloys. Entropy, 2016, 18, 62.	1.1	75
53	Effect of one-step recrystallization on the grain boundary evolution of CoCrFeMnNi high entropy alloy and its subsystems. Scientific Reports, 2016, 6, 22306.	1.6	50
54	Potential Applications and Prospects. , 2016, , 493-512.		3

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55	A Heat-Resistant NiCo <sub>0.6</sub> Fe <sub>0.2</sub> Cr <sub>1.5</sub> SiAlTi <sub>0.2</sub> Overlay Coating for High-Temperature Applications. Journal of the Electrochemical Society, 2016, 163, C752-C758.	1.3	25
56	Oxidation Behaviour of Si-Bearing Co-Based Alloys. Oxidation of Metals, 2016, 86, 99-112.	1.0	21
57	High temperature creep properties of directionally solidified CM-247LC Ni-based superalloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 655, 237-243.	2.6	30
58	Development of advanced metallic alloys for solid oxide fuel cell interconnector application. Journal of Alloys and Compounds, 2016, 656, 903-911.	2.8	14
59	The Thermal Stability and Strength of Highly Alloyed Ni <sub>3</sub> Al. Materials Transactions, 2015, 56, 1905-1910.	0.4	20
60	Hot Ductility Loss in a Fe-Ni-Based Superalloy. Metals, 2015, 5, 2428-2434.	1.0	3
61	Microstructure and tensile properties of Al <sub>0.5</sub> CoCrCuFeNi alloys produced by simple rolling and annealing. Materials Science and Technology, 2015, 31, 1178-1183.	0.8	20
62	Development of an advanced bond coat for solid oxide fuel cell interconnector applications. Journal of Power Sources, 2015, 296, 426-432.	4.0	9
63	The evolution of microstructures and high temperature properties of Al <sub>x</sub> Co <sub>1.5</sub> CrFeNi <sub>1.5</sub> Ti <sub>y</sub> high entropy alloys. Journal of Alloys and Compounds, 2015, 653, 379-385.	2.8	118
64	Effects of Cooling Rates after Solution Heat Treatment on the Creep Behavior of Directionally Solidified CM-247LC Superalloy. Materials Science Forum, 2014, 788, 549-553.	0.3	2
65	Developing an advanced Si-bearing DS Ni-base superalloy. Journal of Alloys and Compounds, 2014, 585, 614-621.	2.8	22
66	Investigations on the high temperature properties of a superalloy after microstructure engineering. Journal of Alloys and Compounds, 2014, 605, 142-148.	2.8	6
67	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
68	Significant hardening due to the formation of a sigma phase matrix in a high entropy alloy. Intermetallics, 2013, 33, 81-86.	1.8	153
69	Antibacterial property of CuCrO <sub>2</sub> thin films prepared by RF magnetron sputtering deposition. Vacuum, 2013, 87, 174-177.	1.6	52
70	Effects of Al Addition on the High Temperature Oxidation Behavior of CM-247 LC Ni-Based Superalloy. , 2013, , 521-527.		1
71	Some Aspects on the Discoloration and Antimicrobial Property of a Thermally Passivated Copper Surface in a Highly Humid Environment. Materials Transactions, 2011, 52, 265-267.	0.4	7
72	An Effective Anti-Discoloration Coating for Copper. Materials Transactions, 2011, 52, 268-270.	0.4	2

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73	Effect of serrated grain boundaries on the creep property of Inconel 718 superalloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 530, 525-529.	2.6	105
74	Oxidation resistant Ru containing Ni base single crystal superalloys. Materials Science and Technology, 2009, 25, 271-275.	0.8	34
75	Protections Against Surface Discoloration of Nickel Silver Plates. Materials Transactions, 2009, 50, 1905-1907.	0.4	1
76	Uninterrupted Production of Metal Coils by Making Successive Joints with Roll Bonding Technique. Materials Transactions, 2009, 50, 2124-2126.	0.4	0
77	On the creep and phase stability of advanced Ni-base single crystal superalloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 490, 445-451.	2.6	78
78	Analysis of element-content effects on equilibrium segregation at $\gamma/\gamma^2$ interface in Ni-base superalloys using the cluster variation method. Intermetallics, 2008, 16, 779-784.	1.8	23
79	Effects of Primary Ageing Temperatures on Creep Properties of Advanced Ni-Base Single Crystal Superalloys. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2006, 70, 666-669.	0.2	6
80	High Temperature Oxidation Behavior of CM-247LC Nickel Base Superalloy. Advanced Materials Research, 0, 922, 61-66.	0.3	6