

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
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88
all docs

88
docs citations

88
times ranked

1726
citing authors

#	ARTICLE	IF	CITATIONS
1	Significant hardening due to the formation of a sigma phase matrix in a high entropy alloy. <i>Intermetallics</i> , 2013, 33, 81-86.	1.8	153
2	The High Temperature Tensile and Creep Behaviors of High Entropy Superalloy. <i>Scientific Reports</i> , 2017, 7, 12658.	1.6	136
3	The evolution of microstructures and high temperature properties of Al _x Co _{1.5} CrFeNi _{1.5} Ti _y high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2015, 653, 379-385.	2.8	118
4	Effect of serrated grain boundaries on the creep property of Inconel 718 superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 530, 525-529.	2.6	105
5	Prediction of the Composition and Hardness of High-Entropy Alloys by Machine Learning. <i>Jom</i> , 2019, 71, 3433-3442.	0.9	88
6	On the study of thermal-sprayed Ni 0.2 Co 0.6 Fe 0.2 CrSi 0.2 AlTi 0.2 HEA overlay coating. <i>Surface and Coatings Technology</i> , 2017, 316, 71-74.	2.2	79
7	On the creep and phase stability of advanced Ni-base single crystal superalloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 490, 445-451.	2.6	78
8	High Temperature Oxidation and Corrosion Properties of High Entropy Superalloys. <i>Entropy</i> , 2016, 18, 62.	1.1	75
9	Effects of processing routes on room temperature tensile strength and elongation for Inconel 718. <i>Materials and Design</i> , 2017, 119, 235-243.	3.3	66
10	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
11	The formation of cellular precipitate and its effect on the tensile properties of a precipitation strengthened high entropy alloy. <i>Materials Chemistry and Physics</i> , 2018, 210, 111-119.	2.0	64
12	An oxidation resistant refractory high entropy alloy protected by CrTaO ₄ -based oxide. <i>Scientific Reports</i> , 2019, 9, 7266.	1.6	63
13	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.	1.1	62
14	Engineering multi-scale B ₂ precipitation in a heterogeneous FCC based microstructure to enhance the mechanical properties of a Al _{0.5} Co _{1.5} CrFeNi _{1.5} high entropy alloy. <i>Journal of Alloys and Compounds</i> , 2020, 830, 154707.	2.8	57
15	Antibacterial property of CuCrO ₂ thin films prepared by RF magnetron sputtering deposition. <i>Vacuum</i> , 2013, 87, 174-177.	1.6	52
16	Designing high entropy superalloys for elevated temperature application. <i>Scripta Materialia</i> , 2020, 187, 177-182.	2.6	52
17	Effect of one-step recrystallization on the grain boundary evolution of CoCrFeMnNi high entropy alloy and its subsystems. <i>Scientific Reports</i> , 2016, 6, 22306.	1.6	50
18	On The Superior High Temperature Hardness of Precipitation Strengthened High Entropy Ni-Based Alloys. <i>Advanced Engineering Materials</i> , 2017, 19, 1600475.	1.6	42

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19	On the microstructure and properties of an advanced cemented carbide system processed by selective laser melting. <i>Journal of Alloys and Compounds</i> , 2019, 782, 440-450.	2.8	42
20	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
21	Formation mechanism of Ni ₂ Ti ₄ O in NITI shape memory alloy. <i>Materialia</i> , 2019, 5, 100194.	1.3	39
22	The Microstructure Stability of Precipitation Strengthened Medium to High Entropy Superalloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 2435-2442.	1.1	38
23	Oxidation behaviour of a novel refractory high entropy alloy at elevated temperatures. <i>Intermetallics</i> , 2020, 119, 106711.	1.8	36
24	Oxidation resistant Ru containing Ni base single crystal superalloys. <i>Materials Science and Technology</i> , 2009, 25, 271-275.	0.8	34
25	Microstructure evolution induced by inoculants during the selective laser melting of IN718. <i>Additive Manufacturing</i> , 2018, 21, 465-471.	1.7	32
26	High temperature creep properties of directionally solidified CM-247LC Ni-based superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 655, 237-243.	2.6	30
27	Microstructure characterization of cemented carbide fabricated by selective laser melting process. <i>International Journal of Refractory Metals and Hard Materials</i> , 2018, 75, 225-233.	1.7	29
28	Influence of pre-deformation on the precipitation characteristics of aged non-equiatomic Co _{1.5} CrFeNi _{1.5} high entropy alloys with Ti and Al additions. <i>Journal of Alloys and Compounds</i> , 2021, 855, 157521.	2.8	29
29	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
30	Tensile creep behavior of HfNbTaTiZr refractory high entropy alloy at elevated temperatures. <i>Acta Materialia</i> , 2022, 237, 118188.	3.8	27
31	A Heat-Resistant NiCo _{0.6} Fe _{0.2} Cr _{1.5} SiAlTi _{0.2} Overlay Coating for High-Temperature Applications. <i>Journal of the Electrochemical Society</i> , 2016, 163, C752-C758.	1.3	25
32	Analysis of element-content effects on equilibrium segregation at $\hat{\gamma}/\hat{\alpha}$ interface in Ni-base superalloys using the cluster variation method. <i>Intermetallics</i> , 2008, 16, 779-784.	1.8	23
33	A Study of NiCo _{0.6} Fe _{0.2} Cr _x SiAlTi _y High-Entropy Alloys for Applications as a High-Temperature Protective Coating and a Bond Coat in Thermal Barrier Coating Systems. <i>Journal of the Electrochemical Society</i> , 2018, 165, C524-C531.	1.3	23
34	Developing an advanced Si-bearing DS Ni-base superalloy. <i>Journal of Alloys and Compounds</i> , 2014, 585, 614-621.	2.8	22
35	Investigation on the thermal expansion behavior of FeCoNi and Fe ₃₀ Co ₃₀ Ni ₃₀ Cr ₁₀ -xMnx high entropy alloys. <i>Materials Chemistry and Physics</i> , 2021, 271, 124907.	2.0	22
36	Oxidation Behaviour of Si-Bearing Co-Based Alloys. <i>Oxidation of Metals</i> , 2016, 86, 99-112.	1.0	21

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37	Hierarchical microstructure strengthening in a single crystal high entropy superalloy. <i>Scientific Reports</i> , 2020, 10, 12163.	1.6	21
38	The Thermal Stability and Strength of Highly Alloyed Ni ₃ Al. <i>Materials Transactions</i> , 2015, 56, 1905-1910.	0.4	20
39	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
40	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
41	Grain-size-dependent microstructure effects on cyclic deformation mechanisms in CoCrFeMnNi high-entropy-alloys. <i>Scripta Materialia</i> , 2022, 210, 114459.	2.6	16
42	Effect of processing parameters on the fractions of martensite in 17-4PH stainless steel fabricated by selective laser melting. <i>Journal of Alloys and Compounds</i> , 2021, 859, 157758.	2.8	15
43	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
44	Development of advanced metallic alloys for solid oxide fuel cell interconnector application. <i>Journal of Alloys and Compounds</i> , 2016, 656, 903-911.	2.8	14
45	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
46	Enhanced age hardening effects in FCC based Co _{1.5} CrFeNi _{1.5} high entropy alloys with varying Ti and Al contents. <i>Materialia</i> , 2020, 13, 100823.	1.3	14
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	Reversal of favorable microstructure under plastic ploughing vs. interfacial shear induced wear in aged Co _{1.5} CrFeNi _{1.5} Ti _{0.5} high-entropy alloy. <i>Wear</i> , 2021, 468-469, 203595.	1.5	11
49	Comparing Cyclic Tension-Compression Effects on CoCrFeMnNi High-Entropy Alloy and Ni-Based Superalloy. <i>Crystals</i> , 2019, 9, 420.	1.0	10
50	Effects of CoAl ₂ O ₄ inoculants on microstructure and mechanical properties of IN718 processed by selective laser melting. <i>Additive Manufacturing</i> , 2020, 35, 101328.	1.7	10
51	Development of an advanced bond coat for solid oxide fuel cell interconnector applications. <i>Journal of Power Sources</i> , 2015, 296, 426-432.	4.0	9
52	Understanding the Effects of CoAl ₂ O ₄ 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
53	Insight to agglomeration and chemical reactions of CoAl ₂ O ₄ inoculants in IN718 processed by selective laser melting. <i>Journal of Alloys and Compounds</i> , 2021, 883, 160753.	2.8	8
54	Some Aspects on the Discoloration and Antimicrobial Property of a Thermally Passivated Copper Surface in a Highly Humid Environment. <i>Materials Transactions</i> , 2011, 52, 265-267.	0.4	7

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55	Microstructural Investigation of Oxidized Complex Refractory High Entropy Alloys. <i>Materials Transactions</i> , 2018, 59, 556-562.	0.4	7
56	Effect of Heat Treatments on the Microstructural Evolution of a Single Crystal High-Entropy Superalloy. <i>Metals</i> , 2020, 10, 1600.	1.0	7
57	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
58	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
59	Effects of Primary Ageing Temperatures on Creep Properties of Advanced Ni-Base Single Crystal Superalloys. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2006, 70, 666-669.	0.2	6
60	High Temperature Oxidation Behavior of CM-247LC Nickel Base Superalloy. <i>Advanced Materials Research</i> , 0, 922, 61-66.	0.3	6
61	Investigations on the high temperature properties of a superalloy after microstructure engineering. <i>Journal of Alloys and Compounds</i> , 2014, 605, 142-148.	2.8	6
62	Evolution of high temperature yield strength of AlCoCrFeNiTi high entropy alloys. <i>Procedia Manufacturing</i> , 2018, 15, 364-371.	1.9	6
63	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
64	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
65	Tensile Response of As-Cast CoCrFeNi and CoCrFeMnNi High-Entropy Alloys. <i>Crystals</i> , 2022, 12, 157.	1.0	6
66	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
67	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
68	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
69	Tensile Creep Behavior of Single-Crystal High-Entropy Superalloy at Intermediate Temperature. <i>Crystals</i> , 2021, 11, 28.	1.0	4
70	Dimensional stability of a metastable FCC high entropy alloy. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	4
71	Hot Ductility Loss in a Fe-Ni-Based Superalloy. <i>Metals</i> , 2015, 5, 2428-2434.	1.0	3
72	Potential Applications and Prospects. , 2016, , 493-512.		3

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73	The Dilution Effect in High-Power Disk Laser Welding the Steel Plate Using a Nickel-Based Filler Wire. Metals, 2021, 11, 874.	1.0	3
74	An Effective Anti-Discoloration Coating for Copper. Materials Transactions, 2011, 52, 268-270.	0.4	2
75	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
76	The role of intrinsic stacking fault in facilitating the pressure-induced phase transition in CoCrFeMnNi high entropy alloys. Materials Chemistry and Physics, 2022, 275, 125273.	2.0	2
77	Protections Against Surface Discoloration of Nickel Silver Plates. Materials Transactions, 2009, 50, 1905-1907.	0.4	1
78	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
79	Effects of Al Addition on the High Temperature Oxidation Behavior of CM-247 LC Ni-Based Superalloy. , 2013, , 521-527.		1
80	Uninterrupted Production of Metal Coils by Making Successive Joints with Roll Bonding Technique. Materials Transactions, 2009, 50, 2124-2126.	0.4	0