

Yi-Ping Lu

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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.

99
papers

4,153
citations

33
h-index

64
g-index

102
ext. papers

5,821
ext. citations

4.9
avg, IF

5.92
L-index

#	Paper	IF	Citations
99	A promising new class of high-temperature alloys: eutectic high-entropy alloys. <i>Scientific Reports</i> , 2014 , 4, 6200	4.9	604
98	Directly cast bulk eutectic and near-eutectic high entropy alloys with balanced strength and ductility in a wide temperature range. <i>Acta Materialia</i> , 2017 , 124, 143-150	8.4	483
97	Microstructural origins of high strength and high ductility in an AlCoCrFeNi _{2.1} eutectic high-entropy alloy. <i>Acta Materialia</i> , 2017 , 141, 59-66	8.4	266
96	Microstructure and mechanical properties of multi-component AlCrFeNiMox high-entropy alloys. <i>Journal of Alloys and Compounds</i> , 2013 , 573, 96-101	5.7	160
95	Effect of vanadium addition on the microstructure and properties of AlCoCrFeNi high entropy alloy. <i>Materials & Design</i> , 2014 , 57, 67-72		159
94	A promising new class of irradiation tolerant materials: Ti ₂ ZrHfV _{0.5} Mo _{0.2} high-entropy alloy. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 369-373	9.1	145
93	Effects of electro-negativity on the stability of topologically close-packed phase in high entropy alloys. <i>Intermetallics</i> , 2014 , 52, 105-109	3.5	137
92	Promising properties and future trend of eutectic high entropy alloys. <i>Scripta Materialia</i> , 2020 , 187, 202-209	3.69	126
91	A new strategy to design eutectic high-entropy alloys using mixing enthalpy. <i>Intermetallics</i> , 2017 , 91, 124-128	3.5	124
90	Effect of Niobium on Microstructure and Properties of the CoCrFeNbxNi High Entropy Alloys. <i>Journal of Materials Science and Technology</i> , 2017 , 33, 712-717	9.1	108
89	A new strategy to design eutectic high-entropy alloys using simple mixture method. <i>Materials and Design</i> , 2018 , 142, 101-105	8.1	95
88	Microstructures and mechanical properties of Co ₂ MoxNi ₂ VWx eutectic high entropy alloys. <i>Materials and Design</i> , 2016 , 109, 539-546	8.1	89
87	A multi-component AlCrFe ₂ Ni ₂ alloy with excellent mechanical properties. <i>Materials Letters</i> , 2016 , 169, 62-64	3.3	86
86	Annealing effects on the microstructure and properties of bulk high-entropy CoCrFeNiTi _{0.5} alloy casting ingot. <i>Intermetallics</i> , 2014 , 44, 37-43	3.5	86
85	Effects of Ta addition on the microstructures and mechanical properties of CoCrFeNi high entropy alloy. <i>Materials Chemistry and Physics</i> , 2018 , 210, 43-48	4.4	82
84	Effects of Nb addition on structural evolution and properties of the CoFeNi ₂ V _{0.5} high-entropy alloy. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 119, 291-297	2.6	67
83	Microstructure and Mechanical Properties of a CoFeNi ₂ V _{0.5} Nb _{0.75} Eutectic High Entropy Alloy in As-cast and Heat-treated Conditions. <i>Journal of Materials Science and Technology</i> , 2016 , 32, 245-250	9.1	66

82	A novel bulk eutectic high-entropy alloy with outstanding as-cast specific yield strengths at elevated temperatures. <i>Scripta Materialia</i> , 2021 , 204, 114132	5.6	57
81	A novel Cu-bearing high-entropy alloy with significant antibacterial behavior against corrosive marine biofilms. <i>Journal of Materials Science and Technology</i> , 2020 , 46, 201-210	9.1	53
80	A Criterion for Topological Close-Packed Phase Formation in High Entropy Alloys. <i>Entropy</i> , 2015 , 17, 2355-2366	5.3	53
79	Effect of carbon addition on the microstructure and mechanical properties of CoCrFeNi high entropy alloy. <i>Science China Technological Sciences</i> , 2018 , 61, 117-123	3.5	47
78	Direct solidification of bulk ultrafine-microstructure eutectic high-entropy alloys with outstanding thermal stability. <i>Scripta Materialia</i> , 2019 , 165, 145-149	5.6	47
77	The superior hydrogen-generation performance of multi-component Al alloys by the hydrolysis reaction. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 3527-3537	6.7	47
76	Effects of annealing treatment on microstructure and hardness of bulk AlCrFeNiMo0.2 eutectic high-entropy alloy. <i>Materials and Design</i> , 2015 , 82, 91-97	8.1	46
75	A novel high-entropy alloy composite coating with core-shell structures prepared by plasma cladding. <i>Vacuum</i> , 2021 , 184, 109905	3.7	46
74	Deformation mechanism during high-temperature tensile test in an eutectic high-entropy alloy AlCoCrFeNi2.1. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 724, 148-155	5.3	45
73	Mechanical Properties Improvement of AlCrFeNi2Ti0.5 High Entropy Alloy through Annealing Design and its Relationship with its Particle-reinforced Microstructures. <i>Journal of Materials Science and Technology</i> , 2015 , 31, 397-402	9.1	43
72	A promising structure for fabricating high strength and high electrical conductivity copper alloys. <i>Scientific Reports</i> , 2016 , 6, 20799	4.9	39
71	The interaction and migration of deformation twin in an eutectic high-entropy alloy AlCoCrFeNi2.1. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 902-906	9.1	36
70	Tribological behavior of an AlCoCrFeNi2.1 eutectic high entropy alloy sliding against different counterfaces. <i>Tribology International</i> , 2021 , 153, 106599	4.9	35
69	Preparing bulk ultrafine-microstructure high-entropy alloys via direct solidification. <i>Nanoscale</i> , 2018 , 10, 1912-1919	7.7	33
68	Effects of Tungsten on Microstructure and Mechanical Properties of CrFeNiV0.5W x and CrFeNi2V0.5W x High-Entropy Alloys. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 4594-4600	1.6	33
67	Microstructure and tribological properties of AlCrFe2Ni2W0.2Mo0.75 high-entropy alloy coating prepared by laser cladding in seawater, NaCl solution and deionized water. <i>Surface and Coatings Technology</i> , 2020 , 400, 126214	4.4	33
66	Effect of minor B addition on microstructure and properties of AlCoCrFeNi multi-component alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2015 , 25, 2958-2964	3.3	32
65	Fabrication process and bending properties of carbon fibers reinforced Al-alloy matrix composites. <i>Journal of Materials Processing Technology</i> , 2016 , 231, 366-373	5.3	29

64	Extraordinary ductility and strain hardening of Cr ₂₆ Mn ₂₀ Fe ₂₀ Co ₂₀ Ni ₁₄ TWIP high-entropy alloy by cooperative planar slipping and twinning. <i>Materialia</i> , 2019 , 8, 100485	3.2	27
63	Faceted Kurdjumov-Sachs interface-induced slip continuity in the eutectic high-entropy alloy, AlCoCrFeNi _{2.1} . <i>Journal of Materials Science and Technology</i> , 2021 , 65, 216-227	9.1	26
62	The Exceptional Strong Face-centered Cubic Phase and Semi-coherent Phase Boundary in a Eutectic Dual-phase High Entropy Alloy AlCoCrFeNi. <i>Scientific Reports</i> , 2018 , 8, 14910	4.9	26
61	Effects of Tungsten Addition on the Microstructure and Mechanical Properties of Near-Eutectic AlCoCrFeNi ₂ High-Entropy Alloy. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 109-115	1.6	24
60	A Novel Series of Refractory High-Entropy Alloys Ti ₂ ZrHf _{0.5} VNb _x with High Specific Yield Strength and Good Ductility. <i>Acta Metallurgica Sinica (English Letters)</i> , 2019 , 32, 925-931	2.5	23
59	Liquid rolling of woven carbon fibers reinforced Al5083-matrix composites. <i>Materials and Design</i> , 2016 , 95, 89-96	8.1	22
58	Effect of electromagnetic stirring on microstructure and properties of Al _{0.5} CoCrCuFeNi alloy. <i>Procedia Engineering</i> , 2012 , 27, 1129-1134		22
57	Fabrication of woven carbon fibers reinforced AlMg (95 wt%) matrix composites by an electromagnetic casting process. <i>Journal of Materials Processing Technology</i> , 2015 , 226, 78-84	5.3	20
56	Composition, Microstructure, Phase Constitution and Fundamental Physicochemical Properties of Low-Melting-Point Multi-Component Eutectic Alloys. <i>Journal of Materials Science and Technology</i> , 2017 , 33, 131-154	9.1	19
55	Effect of plasma remelting on microstructure and properties of a CoCrCuNiAl _{0.5} high-entropy alloy prepared by spark plasma sintering. <i>Journal of Materials Science</i> , 2021 , 56, 5878-5898	4.3	17
54	Effects of Fe Content on Microstructures and Properties of AlCoCrFe _x Ni High-Entropy Alloys. <i>Arabian Journal for Science and Engineering</i> , 2015 , 40, 3657-3663		16
53	Microstructures and Wear Resistance of AlCrFeNi ₂ W _{0.2} Nb _x High-Entropy Alloy Coatings Prepared by Laser Cladding. <i>Journal of Thermal Spray Technology</i> , 2019 , 28, 1318-1329	2.5	16
52	Effects of Mo on microstructure and mechanical properties of Fe ₂ Ni ₂ CrMo _x eutectic high entropy alloys. <i>Materials Chemistry and Physics</i> , 2021 , 260, 124175	4.4	16
51	Effects of Ta Addition on the Microstructure and Mechanical Properties of CoCu _{0.5} FeNi High-Entropy Alloy. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 7642-7648	1.6	13
50	Novel (CoFe ₂ Ni _{0.5} Mo _{0.2}) _{100-x} Nb _x Eutectic High-Entropy Alloys with Excellent Combination of Mechanical and Corrosion Properties. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020 , 33, 1046-1056	2.5	12
49	The transition of alpha-Ni phase morphology in highly undercooled eutectic Ni _{78.6} Si _{21.4} alloy. <i>Europhysics Letters</i> , 2006 , 74, 281-286	1.6	12
48	Directional solidification of highly undercooled eutectic Ni _{78.6} Si _{21.4} alloy. <i>Materials Letters</i> , 2005 , 59, 1558-1562	3.3	12
47	Effect of Ti content on microstructure and properties of Ti _x ZrVNb refractory high-entropy alloys. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2020 , 27, 1318-1325	3.1	12

46	Effect of Sc and Y addition on the microstructure and properties of HCP-structured high-entropy alloys. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	11
45	Infiltration behavior and mechanism in semi-solid rolling of carbon fibers reinforced Al-matrix composite. <i>Materials and Design</i> , 2019 , 182, 108102	8.1	10
44	The formation of quasiregular microstructure in highly undercooled Ni _{70.2} Si _{29.8} eutectic alloy. <i>Journal of Applied Physics</i> , 2008 , 104, 013535	2.5	10
43	Tungsten-containing high-entropy alloys: a focused review of manufacturing routes, phase selection, mechanical properties, and irradiation resistance properties. <i>Tungsten</i> , 2021 , 3, 181-196	4.6	10
42	Cu-bearing high-entropy alloys with excellent antiviral properties. <i>Journal of Materials Science and Technology</i> , 2021 , 84, 59-64	9.1	10
41	A novel ZrNbMoTaW refractory high-entropy alloy with in-situ forming heterogeneous structure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 827, 142061	5.3	9
40	Microstructure and mechanical properties of CxHf _{0.25} NbTaW _{0.5} refractory high-entropy alloys at room and high temperatures. <i>Journal of Materials Science and Technology</i> , 2022 , 97, 229-238	9.1	9
39	Composite growth in highly undercooled Ni _{70.2} Si _{29.8} eutectic alloy. <i>Applied Physics Letters</i> , 2006 , 89, 241902	3.4	8
38	The mechanical and oxidation properties of novel B2-ordered Ti ₂ ZrHf _{0.5} VNb _{0.5} Al _x refractory high-entropy alloys. <i>Materials Characterization</i> , 2021 , 178, 111287	3.9	8
37	Effect of Electromagnetic Field on Microstructure and Properties of Bulk AlCrFeNiMo _{0.2} High-Entropy Alloy. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 4475-4481	1.6	7
36	A promising new class of plasticine: Metallic plasticine. <i>Journal of Materials Science and Technology</i> , 2018 , 34, 344-348	9.1	7
35	Microstructure and Mechanical Properties of Al-8 pct Si Alloy Prepared by Direct Chill Casting Under Electromagnetic and Ultrasonic Fields. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 2014-2022	2.3	7
34	Controllable 3D morphology and growth mechanism of quasicrystalline phase in directionally solidified AlMnBe alloy. <i>Journal of Materials Research</i> , 2014 , 29, 2547-2555	2.5	7
33	Simultaneously enhanced strength-ductility of AlCoCrFeNi _{2.1} eutectic high-entropy alloy via additive manufacturing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 830, 142327	5.3	7
32	Electroless nickel plating and spontaneous infiltration behavior of woven carbon fibers. <i>Materials and Design</i> , 2020 , 186, 108301	8.1	7
31	Novel as-cast AlCrFe ₂ Ni ₂ Ti _{0.5} high-entropy alloy with excellent mechanical properties. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2020 , 27, 1312-1317	3.1	7
30	Microstructure and mechanical properties of Ti ₃ V ₂ NbAl Ni low-density refractory multielement alloys. <i>Intermetallics</i> , 2021 , 133, 107187	3.5	5
29	Microstructure and Mechanical Properties of (hbox {CoCrFeNi}_{2}hbox {Al}_{1-}{x})hbox {W}_{x}) High Entropy Alloys. <i>Arabian Journal for Science and Engineering</i> , 2019 , 44, 803-808	2.5	5

28	Grouping strategy via d-orbit energy level to design eutectic high-entropy alloys. <i>Applied Physics Letters</i> , 2021 , 119, 071905	3-4	5
27	Electromagnetic modification of faceted-faceted Ni ₃₁ Si ₁₂ -Ni ₂ Si eutectic alloy. <i>Science Bulletin</i> , 2012 , 57, 1595-1599		4
26	A novel Co-free Al _{0.75} CrFeNi eutectic high entropy alloy with superior mechanical properties. <i>Journal of Alloys and Compounds</i> , 2022 , 902, 163814	5-7	4
25	Surface modification for AlCoCrFeNi _{2.1} eutectic high-entropy alloy via laser remelting technology and subsequent aging heat treatment. <i>Journal of Alloys and Compounds</i> , 2022 , 894, 162380	5-7	4
24	Microstructure and Fabrication of Cu-Pb-Sn/Q235 Laminated Composite by Semi-Solid Rolling. <i>Metals</i> , 2018 , 8, 722	2-3	4
23	Effect of Zr on the as-cast microstructure and mechanical properties of lightweight Ti ₂ VNbMoZrx refractory high-entropy alloys. <i>International Journal of Refractory Metals and Hard Materials</i> , 2022 , 103, 105762	4-1	3
22	Entropy as a selection rule for crystal growth in undercooled binary eutectic melts. <i>Science Bulletin</i> , 2009 , 54, 1012-1018	10.6	2
21	Ductile and ultrahigh-strength eutectic high-entropy alloys by large-volume 3D printing. <i>Journal of Materials Science and Technology</i> , 2022 ,	9-1	2
20	Hot deformation behavior and microstructure evolution of non-equimolar Ti ₂ ZrHfV _{0.5} Ta _{0.2} refractory high-entropy alloy. <i>Intermetallics</i> , 2022 , 146, 107586	3-5	2
19	Constructing Bi ₂ WO ₆ -decorated TiO ₂ composite films for photocathodic protection of 304 stainless steel. <i>Journal of Iron and Steel Research International</i> , 2021 , 28, 1054-1063	1-2	1
18	Evolution of Microstructure and Mechanical Properties of As-Cast Al _x CrFe ₂ Ni ₂ High-Entropy Alloys with Al Content. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021 , 52, 1850-1860	2-3	1
17	Effect of Ti and Nb Contents on Microstructure and Mechanical Properties of HfZrVTaMoWTixNby Refractory High-Entropy Alloys. <i>Advanced Engineering Materials</i> , 2021 , 23, 2100225	3-5	1
16	Effects of deformation and annealing on the microstructures and properties of a nonequiatomic Co ₂₉ Cr ₂₉ Fe ₂₉ Ni _{12.5} W _{0.5} high-entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 805, 140548	5-3	1
15	Tuning deformation mechanisms of face-centered-cubic high-entropy alloys via boron doping. <i>Journal of Alloys and Compounds</i> , 2022 , 165103	5-7	1
14	Re-rolling technology and alloying-element distribution of carbon fibers reinforced Al-matrix composite. <i>Journal of Materials Processing Technology</i> , 2020 , 281, 116617	5-3	0
13	3D Morphology and Formation Process of the Icosahedral Quasicrystalline Phase in Rapidly Solidified AlMn Alloy. <i>Acta Metallurgica Sinica (English Letters)</i> , 2016 , 29, 28-31	2-5	0
12	Criteria for laves-phase formation in refractory high-entropy alloys. <i>Philosophical Magazine Letters</i> , 1-17	1	0
11	Novel Fe ₂ CoNi(AlSi) _x high-entropy alloys with attractive soft magnetic and mechanical properties. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	0

10	A novel as-cast precipitation-strengthened Al _{0.5} V _{0.1} FeCrMnNi _{0.9} high-entropy alloy with high strength and plasticity. <i>Science China Technological Sciences</i> , 2021 , 64, 1920-1926	3.5	○
9	Antibacterial activities of a novel Cu-bearing high-entropy alloy against multi-drug-resistant <i>Acinetobacter baumannii</i> and <i>Staphylococcus aureus</i> . <i>Rare Metals</i> , 2021 , 1	5.5	○
8	Microstructure evolution and mechanical properties of CrFeNi _x V _{0.64} Ta _{0.36} eutectic high-entropy alloys. <i>Materials Characterization</i> , 2021 , 181, 111449	3.9	○
7	Microstructures and Mechanical Properties of Ni _x CoCrFeMo _{0.1} Multi-component Alloys 2018 , 293-300		
6	Microstructural refinement and performance improvement of Cu ₃₆ wt% Zn alloy by Al ₂ O ₃ nanoparticles coupling electromagnetic stirring. <i>Rare Metals</i> , 2016 , 1	5.5	
5	Effects of Iron on Microstructure and Properties of CoCrFe _x Ni Multi-principal Element Alloys 2018 , 253-258		
4	Microstructure evolution and non-equilibrium solidification of undercooled Ni-29.8at% Si eutectic alloy melts. <i>Science China Technological Sciences</i> , 2010 , 53, 1043-1048	3.5	
3	Preface to the Special Issue: High-Entropy Alloys. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020 , 33, 1031-1032		
2	Brittle-to-ductile transition in Ti _{1-x} B _x intermetallic compounds. <i>Science Bulletin</i> , 2021 , 66, 2281-2287	10.6	
1	A Novel Series of Fe _{8.25} CoCrNiMnNb _{0.1} Mox Multi-Component Alloys with Excellent Combined Strength and Ductility. <i>Journal of Materials Engineering and Performance</i> , 2021 , 1	1.6	