

# Yi-Ping Lu

## 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.

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 novel Co-free Al <sub>0.75</sub> CrFeNi eutectic high entropy alloy with superior mechanical properties. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 902, 163814	5.7	4
98	Simultaneously enhanced strength-ductility of AlCoCrFeNi <sub>2.1</sub> eutectic high-entropy alloy via additive manufacturing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 830, 142327	5.3	7
97	Effect of Zr on the as-cast microstructure and mechanical properties of lightweight Ti <sub>2</sub> VNbMoZr <sub>x</sub> refractory high-entropy alloys. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2022</b> , 103, 105762	4.1	3
96	Surface modification for AlCoCrFeNi <sub>2.1</sub> eutectic high-entropy alloy via laser remelting technology and subsequent aging heat treatment. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 894, 162380	5.7	4
95	Microstructure and mechanical properties of CxHf <sub>0.25</sub> NbTaW <sub>0.5</sub> refractory high-entropy alloys at room and high temperatures. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 97, 229-238	9.1	9
94	Ductile and ultrahigh-strength eutectic high-entropy alloys by large-volume 3D printing. <i>Journal of Materials Science and Technology</i> , <b>2022</b> ,	9.1	2
93	Tuning deformation mechanisms of face-centered-cubic high-entropy alloys via boron doping. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 165103	5.7	1
92	Hot deformation behavior and microstructure evolution of non-equimolar Ti <sub>2</sub> ZrHfV <sub>0.5</sub> Ta <sub>0.2</sub> refractory high-entropy alloy. <i>Intermetallics</i> , <b>2022</b> , 146, 107586	3.5	2
91	Novel Fe <sub>2</sub> CoNi(AlSi) <sub>x</sub> high-entropy alloys with attractive soft magnetic and mechanical properties. <i>Applied Physics A: Materials Science and Processing</i> , <b>2021</b> , 127, 1	2.6	0
90	Constructing Bi <sub>2</sub> WO <sub>6</sub> -decorated TiO <sub>2</sub> composite films for photocathodic protection of 304 stainless steel. <i>Journal of Iron and Steel Research International</i> , <b>2021</b> , 28, 1054-1063	1.2	1
89	Evolution of Microstructure and Mechanical Properties of As-Cast Al <sub>x</sub> CrFe <sub>2</sub> Ni <sub>2</sub> High-Entropy Alloys with Al Content. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2021</b> , 52, 1850-1860	2.3	1
88	Effect of Ti and Nb Contents on Microstructure and Mechanical Properties of HfZrVTaMoWTi <sub>x</sub> Nb <sub>y</sub> Refractory High-Entropy Alloys. <i>Advanced Engineering Materials</i> , <b>2021</b> , 23, 2100225	3.5	1
87	Tungsten-containing high-entropy alloys: a focused review of manufacturing routes, phase selection, mechanical properties, and irradiation resistance properties. <i>Tungsten</i> , <b>2021</b> , 3, 181-196	4.6	10
86	Microstructure and mechanical properties of Ti <sub>3</sub> V <sub>2</sub> NbAl Ni low-density refractory multielement alloys. <i>Intermetallics</i> , <b>2021</b> , 133, 107187	3.5	5
85	Faceted Kurdjumov-Sachs interface-induced slip continuity in the eutectic high-entropy alloy, AlCoCrFeNi <sub>2.1</sub> . <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 65, 216-227	9.1	26
84	Tribological behavior of an AlCoCrFeNi <sub>2.1</sub> eutectic high entropy alloy sliding against different counterfaces. <i>Tribology International</i> , <b>2021</b> , 153, 106599	4.9	35
83	Effects of deformation and annealing on the microstructures and properties of a nonequiatomic Co <sub>29</sub> Cr <sub>29</sub> Fe <sub>29</sub> Ni <sub>12.5</sub> W <sub>0.5</sub> high-entropy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 805, 140548	5.3	1

82	A novel high-entropy alloy composite coating with core-shell structures prepared by plasma cladding. <i>Vacuum</i> , <b>2021</b> , 184, 109905	3.7	46
81	Effects of Mo on microstructure and mechanical properties of Fe <sub>2</sub> Ni <sub>2</sub> CrMo <sub>x</sub> eutectic high entropy alloys. <i>Materials Chemistry and Physics</i> , <b>2021</b> , 260, 124175	4.4	16
80	Grouping strategy via d-orbit energy level to design eutectic high-entropy alloys. <i>Applied Physics Letters</i> , <b>2021</b> , 119, 071905	3.4	5
79	The mechanical and oxidation properties of novel B2-ordered Ti <sub>2</sub> ZrHf <sub>0.5</sub> VNb <sub>0.5</sub> Al <sub>x</sub> refractory high-entropy alloys. <i>Materials Characterization</i> , <b>2021</b> , 178, 111287	3.9	8
78	A novel as-cast precipitation-strengthened Al <sub>0.5</sub> V <sub>0.1</sub> FeCrMnNi <sub>0.9</sub> high-entropy alloy with high strength and plasticity. <i>Science China Technological Sciences</i> , <b>2021</b> , 64, 1920-1926	3.5	0
77	Cu-bearing high-entropy alloys with excellent antiviral properties. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 84, 59-64	9.1	10
76	A novel ZrNbMoTaW refractory high-entropy alloy with in-situ forming heterogeneous structure. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 827, 142061	5.3	9
75	Brittle-to-ductile transition in TiPt intermetallic compounds. <i>Science Bulletin</i> , <b>2021</b> , 66, 2281-2287	10.6	
74	Microstructure evolution and mechanical properties of CrFeNi <sub>x</sub> V <sub>0.64</sub> Ta <sub>0.36</sub> eutectic high-entropy alloys. <i>Materials Characterization</i> , <b>2021</b> , 181, 111449	3.9	0
73	A novel bulk eutectic high-entropy alloy with outstanding as-cast specific yield strengths at elevated temperatures. <i>Scripta Materialia</i> , <b>2021</b> , 204, 114132	5.6	57
72	Effect of plasma remelting on microstructure and properties of a CoCrCuNiAl <sub>0.5</sub> high-entropy alloy prepared by spark plasma sintering. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 5878-5898	4.3	17
71	Novel (CoFe <sub>2</sub> NiV <sub>0.5</sub> Mo <sub>0.2</sub> ) <sub>100-x</sub> Nb <sub>x</sub> Eutectic High-Entropy Alloys with Excellent Combination of Mechanical and Corrosion Properties. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2020</b> , 33, 1046-1056	2.5	12
70	Promising properties and future trend of eutectic high entropy alloys. <i>Scripta Materialia</i> , <b>2020</b> , 187, 202-209	3.69	126
69	A novel Cu-bearing high-entropy alloy with significant antibacterial behavior against corrosive marine biofilms. <i>Journal of Materials Science and Technology</i> , <b>2020</b> , 46, 201-210	9.1	53
68	Re-rolling technology and alloying-element distribution of carbon fibers reinforced Al-matrix composite. <i>Journal of Materials Processing Technology</i> , <b>2020</b> , 281, 116617	5.3	0
67	Electroless nickel plating and spontaneous infiltration behavior of woven carbon fibers. <i>Materials and Design</i> , <b>2020</b> , 186, 108301	8.1	7
66	Preface to the Special Issue: High-Entropy Alloys. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2020</b> , 33, 1031-1032	3.4	0
65	Microstructure and tribological properties of AlCrFe <sub>2</sub> Ni <sub>2</sub> W <sub>0.2</sub> Mo <sub>0.75</sub> high-entropy alloy coating prepared by laser cladding in seawater, NaCl solution and deionized water. <i>Surface and Coatings Technology</i> , <b>2020</b> , 400, 126214	4.4	33

64	Novel as-cast AlCrFe <sub>2</sub> Ni <sub>2</sub> Ti <sub>0.5</sub> high-entropy alloy with excellent mechanical properties. <i>International Journal of Minerals, Metallurgy and Materials</i> , <b>2020</b> , 27, 1312-1317	3.1	7
63	Effect of Ti content on microstructure and properties of Ti <sub>x</sub> ZrVNb refractory high-entropy alloys. <i>International Journal of Minerals, Metallurgy and Materials</i> , <b>2020</b> , 27, 1318-1325	3.1	12
62	Infiltration behavior and mechanism in semi-solid rolling of carbon fibers reinforced Al-matrix composite. <i>Materials and Design</i> , <b>2019</b> , 182, 108102	8.1	10
61	Extraordinary ductility and strain hardening of Cr <sub>26</sub> Mn <sub>20</sub> Fe <sub>20</sub> Co <sub>20</sub> Ni <sub>14</sub> TWIP high-entropy alloy by cooperative planar slipping and twinning. <i>Materialia</i> , <b>2019</b> , 8, 100485	3.2	27
60	A Novel Series of Refractory High-Entropy Alloys Ti <sub>2</sub> ZrHf <sub>0.5</sub> VNbx with High Specific Yield Strength and Good Ductility. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2019</b> , 32, 925-931	2.5	23
59	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> , <b>2019</b> , 125, 1	2.6	11
58	Microstructures and Wear Resistance of AlCrFeNi <sub>2</sub> W <sub>0.2</sub> Nbx High-Entropy Alloy Coatings Prepared by Laser Cladding. <i>Journal of Thermal Spray Technology</i> , <b>2019</b> , 28, 1318-1329	2.5	16
57	Direct solidification of bulk ultrafine-microstructure eutectic high-entropy alloys with outstanding thermal stability. <i>Scripta Materialia</i> , <b>2019</b> , 165, 145-149	5.6	47
56	Effects of Ta Addition on the Microstructure and Mechanical Properties of CoCu <sub>0.5</sub> FeNi High-Entropy Alloy. <i>Journal of Materials Engineering and Performance</i> , <b>2019</b> , 28, 7642-7648	1.6	13
55	The superior hydrogen-generation performance of multi-component Al alloys by the hydrolysis reaction. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 3527-3537	6.7	47
54	A promising new class of irradiation tolerant materials: Ti <sub>2</sub> ZrHfV <sub>0.5</sub> Mo <sub>0.2</sub> high-entropy alloy. <i>Journal of Materials Science and Technology</i> , <b>2019</b> , 35, 369-373	9.1	145
53	The interaction and migration of deformation twin in an eutectic high-entropy alloy AlCoCrFeNi <sub>2.1</sub> . <i>Journal of Materials Science and Technology</i> , <b>2019</b> , 35, 902-906	9.1	36
52	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> , <b>2019</b> , 44, 803-808	2.5	5
51	Microstructures and Mechanical Properties of Ni <sub>x</sub> CoCrFeMo <sub>0.1</sub> Multi-component Alloys <b>2018</b> , 293-300		
50	Effects of Tungsten Addition on the Microstructure and Mechanical Properties of Near-Eutectic AlCoCrFeNi <sub>2</sub> High-Entropy Alloy. <i>Journal of Materials Engineering and Performance</i> , <b>2018</b> , 27, 109-115	1.6	24
49	Preparing bulk ultrafine-microstructure high-entropy alloys via direct solidification. <i>Nanoscale</i> , <b>2018</b> , 10, 1912-1919	7.7	33
48	A new strategy to design eutectic high-entropy alloys using simple mixture method. <i>Materials and Design</i> , <b>2018</b> , 142, 101-105	8.1	95
47	Deformation mechanism during high-temperature tensile test in an eutectic high-entropy alloy AlCoCrFeNi <sub>2.1</sub> . <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 724, 148-155	5.3	45

46	Effects of Ta addition on the microstructures and mechanical properties of CoCrFeNi high entropy alloy. <i>Materials Chemistry and Physics</i> , <b>2018</b> , 210, 43-48	4.4	82
45	A promising new class of plasticine: Metallic plasticine. <i>Journal of Materials Science and Technology</i> , <b>2018</b> , 34, 344-348	9.1	7
44	Effect of carbon addition on the microstructure and mechanical properties of CoCrFeNi high entropy alloy. <i>Science China Technological Sciences</i> , <b>2018</b> , 61, 117-123	3.5	47
43	Effects of Iron on Microstructure and Properties of CoCrFexNi Multi-principal Element Alloys <b>2018</b> , 253-258		
42	Microstructure and Fabrication of Cu-Pb-Sn/Q235 Laminated Composite by Semi-Solid Rolling. <i>Metals</i> , <b>2018</b> , 8, 722	2.3	4
41	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> , <b>2018</b> , 8, 14910	4.9	26
40	A new strategy to design eutectic high-entropy alloys using mixing enthalpy. <i>Intermetallics</i> , <b>2017</b> , 91, 124-128	3.5	124
39	Microstructural origins of high strength and high ductility in an AlCoCrFeNi <sub>2.1</sub> eutectic high-entropy alloy. <i>Acta Materialia</i> , <b>2017</b> , 141, 59-66	8.4	266
38	Directly cast bulk eutectic and near-eutectic high entropy alloys with balanced strength and ductility in a wide temperature range. <i>Acta Materialia</i> , <b>2017</b> , 124, 143-150	8.4	483
37	Composition, Microstructure, Phase Constitution and Fundamental Physicochemical Properties of Low-Melting-Point Multi-Component Eutectic Alloys. <i>Journal of Materials Science and Technology</i> , <b>2017</b> , 33, 131-154	9.1	19
36	Effect of Niobium on Microstructure and Properties of the CoCrFeNb <sub>x</sub> Ni High Entropy Alloys. <i>Journal of Materials Science and Technology</i> , <b>2017</b> , 33, 712-717	9.1	108
35	Microstructure and Mechanical Properties of a CoFeNi <sub>2</sub> V <sub>0.5</sub> Nb <sub>0.75</sub> Eutectic High Entropy Alloy in As-cast and Heat-treated Conditions. <i>Journal of Materials Science and Technology</i> , <b>2016</b> , 32, 245-250	9.1	66
34	Microstructures and mechanical properties of Co <sub>2</sub> MoxNi <sub>2</sub> VW <sub>x</sub> eutectic high entropy alloys. <i>Materials and Design</i> , <b>2016</b> , 109, 539-546	8.1	89
33	Microstructural refinement and performance improvement of Cu <sub>36</sub> wt% Zn alloy by Al <sub>2</sub> O <sub>3</sub> nanoparticles coupling electromagnetic stirring. <i>Rare Metals</i> , <b>2016</b> , 1	5.5	
32	3D Morphology and Formation Process of the Icosahedral Quasicrystalline Phase in Rapidly Solidified AlMn Alloy. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2016</b> , 29, 28-31	2.5	0
31	Fabrication process and bending properties of carbon fibers reinforced Al-alloy matrix composites. <i>Journal of Materials Processing Technology</i> , <b>2016</b> , 231, 366-373	5.3	29
30	A multi-component AlCrFe <sub>2</sub> Ni <sub>2</sub> alloy with excellent mechanical properties. <i>Materials Letters</i> , <b>2016</b> , 169, 62-64	3.3	86
29	Liquid rolling of woven carbon fibers reinforced Al5083-matrix composites. <i>Materials and Design</i> , <b>2016</b> , 95, 89-96	8.1	22

28	A promising structure for fabricating high strength and high electrical conductivity copper alloys. <i>Scientific Reports</i> , <b>2016</b> , 6, 20799	4.9	39
27	Effects of Nb addition on structural evolution and properties of the CoFeNi <sub>2</sub> V <sub>0.5</sub> high-entropy alloy. <i>Applied Physics A: Materials Science and Processing</i> , <b>2015</b> , 119, 291-297	2.6	67
26	Effects of Fe Content on Microstructures and Properties of AlCoCrFe <sub>x</sub> Ni High-Entropy Alloys. <i>Arabian Journal for Science and Engineering</i> , <b>2015</b> , 40, 3657-3663		16
25	Fabrication of woven carbon fibers reinforced AlMg (95B wt%) matrix composites by an electromagnetic casting process. <i>Journal of Materials Processing Technology</i> , <b>2015</b> , 226, 78-84	5.3	20
24	Effects of annealing treatment on microstructure and hardness of bulk AlCrFeNiMo <sub>0.2</sub> eutectic high-entropy alloy. <i>Materials and Design</i> , <b>2015</b> , 82, 91-97	8.1	46
23	Effect of Electromagnetic Field on Microstructure and Properties of Bulk AlCrFeNiMo <sub>0.2</sub> High-Entropy Alloy. <i>Journal of Materials Engineering and Performance</i> , <b>2015</b> , 24, 4475-4481	1.6	7
22	Mechanical Properties Improvement of AlCrFeNi <sub>2</sub> Ti <sub>0.5</sub> High Entropy Alloy through Annealing Design and its Relationship with its Particle-reinforced Microstructures. <i>Journal of Materials Science and Technology</i> , <b>2015</b> , 31, 397-402	9.1	43
21	Effect of minor B addition on microstructure and properties of AlCoCrFeNi multi-component alloy. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2015</b> , 25, 2958-2964	3.3	32
20	A Criterion for Topological Close-Packed Phase Formation in High Entropy Alloys. <i>Entropy</i> , <b>2015</b> , 17, 2355-2366	5.3	53
19	Effects of Tungsten on Microstructure and Mechanical Properties of CrFeNi <sub>0.5</sub> W <sub>x</sub> and CrFeNi <sub>2</sub> V <sub>0.5</sub> W <sub>x</sub> High-Entropy Alloys. <i>Journal of Materials Engineering and Performance</i> , <b>2015</b> , 24, 4594-4600	1.6	33
18	A promising new class of high-temperature alloys: eutectic high-entropy alloys. <i>Scientific Reports</i> , <b>2014</b> , 4, 6200	4.9	604
17	Effects of electro-negativity on the stability of topologically close-packed phase in high entropy alloys. <i>Intermetallics</i> , <b>2014</b> , 52, 105-109	3.5	137
16	Effect of vanadium addition on the microstructure and properties of AlCoCrFeNi high entropy alloy. <i>Materials &amp; Design</i> , <b>2014</b> , 57, 67-72		159
15	Annealing effects on the microstructure and properties of bulk high-entropy CoCrFeNiTi <sub>0.5</sub> alloy casting ingot. <i>Intermetallics</i> , <b>2014</b> , 44, 37-43	3.5	86
14	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> , <b>2014</b> , 45, 2014-2022	2.3	7
13	Controllable 3D morphology and growth mechanism of quasicrystalline phase in directionally solidified AlMnBe alloy. <i>Journal of Materials Research</i> , <b>2014</b> , 29, 2547-2555	2.5	7
12	Microstructure and mechanical properties of multi-component AlCrFeNiMox high-entropy alloys. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 573, 96-101	5.7	160
11	Effect of electromagnetic stirring on microstructure and properties of Al <sub>0.5</sub> CoCrCuFeNi alloy. <i>Procedia Engineering</i> , <b>2012</b> , 27, 1129-1134		22

10	Electromagnetic modification of faceted-faceted Ni <sub>31</sub> Si <sub>12</sub> -Ni <sub>2</sub> Si eutectic alloy. <i>Science Bulletin</i> , <b>2012</b> , 57, 1595-1599		4
9	Microstructure evolution and non-equilibrium solidification of undercooled Ni-29.8at% Si eutectic alloy melts. <i>Science China Technological Sciences</i> , <b>2010</b> , 53, 1043-1048	3.5	
8	Entropy as a selection rule for crystal growth in undercooled binary eutectic melts. <i>Science Bulletin</i> , <b>2009</b> , 54, 1012-1018	10.6	2
7	The formation of quasiregular microstructure in highly undercooled Ni <sub>70.2</sub> Si <sub>29.8</sub> eutectic alloy. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 013535	2.5	10
6	The transition of alpha-Ni phase morphology in highly undercooled eutectic Ni 78.6 Si 21.4 alloy. <i>Europhysics Letters</i> , <b>2006</b> , 74, 281-286	1.6	12
5	Composite growth in highly undercooled Ni <sub>70.2</sub> Si <sub>29.8</sub> eutectic alloy. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 241902	3.4	8
4	Directional solidification of highly undercooled eutectic Ni <sub>78.6</sub> Si <sub>21.4</sub> alloy. <i>Materials Letters</i> , <b>2005</b> , 59, 1558-1562	3.3	12
3	Criteria for laves-phase formation in refractory high-entropy alloys. <i>Philosophical Magazine Letters</i> , 1-17	1	0
2	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> , 1	5.5	0
1	A Novel Series of Fe <sub>8.25</sub> CoCrNiMnNb <sub>0.1</sub> Mox Multi-Component Alloys with Excellent Combined Strength and Ductility. <i>Journal of Materials Engineering and Performance</i> , 1	1.6	