

Praveen Sathiyamoorthi

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.

42
papers

1,658
citations

23
h-index

40
g-index

45
ext. papers

2,254
ext. citations

5.3
avg, IF

5.65
L-index

#	Paper	IF	Citations
42	Deformation-induced grain boundary segregation mediated high-strain rate superplasticity in medium entropy alloy. <i>Scripta Materialia</i> , 2022 , 207, 114239	5.6	8
41	Role of cellular structure on deformation twinning and hetero-deformation induced strengthening of laser powder-bed fusion processed CuSn alloy. <i>Additive Manufacturing</i> , 2022 , 54, 102744	6.1	3
40	Architected multi-metal CoCrFeMnNi-Inconel 718 lamellar composite by high-pressure torsion. <i>Scripta Materialia</i> , 2021 , 195, 113722	5.6	12
39	A powder-metallurgy-based fabrication route towards achieving high tensile strength with ultra-high ductility in high-entropy alloy. <i>Scripta Materialia</i> , 2021 , 190, 69-74	5.6	20
38	Unusual strain-induced martensite and absence of conventional grain refinement in twinning induced plasticity high-entropy alloy processed by high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 803, 140570	5.3	9
37	Superplastic Behavior in High-Pressure Torsion-Processed Mo _{7.5} Fe ₅₅ Co ₁₈ Cr _{12.5} Ni ₇ Medium-Entropy Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021 , 52, 1-7	2.3	2
36	Synergetic strengthening from grain refinement and nano-scale precipitates in non-equiatomic CoCrFeNiMo medium-entropy alloy. <i>Intermetallics</i> , 2021 , 135, 107212	3.5	8
35	1.7 GPa tensile strength in ferrous medium entropy alloy via martensite and precipitation. <i>Materials Letters</i> , 2021 , 130958	3.3	1
34	2.3 GPa cryogenic strength through thermal-induced and deformation-induced body-centered cubic martensite in a novel ferrous medium entropy alloy. <i>Scripta Materialia</i> , 2021 , 204, 114157	5.6	4
33	Effect of heat treatment on microstructural heterogeneity and mechanical properties of 1%C-CoCrFeMnNi alloy fabricated by selective laser melting. <i>Additive Manufacturing</i> , 2021 , 47, 102283	6.1	4
32	Delayed deformation-induced martensite transformation and enhanced cryogenic tensile properties in laser additive manufactured 316L austenitic stainless steel. <i>Additive Manufacturing</i> , 2021 , 47, 102314	6.1	1
31	TiC-reinforced CoCrFeMnNi composite processed by cold-consolidation and subsequent annealing. <i>Materials Letters</i> , 2021 , 303, 130503	3.3	4
30	Ultrahigh high-strain-rate superplasticity in a nanostructured high-entropy alloy. <i>Nature Communications</i> , 2020 , 11, 2736	17.4	48
29	High-entropy alloys with heterogeneous microstructure: Processing and mechanical properties. <i>Progress in Materials Science</i> , 2020 , 100709	42.2	78
28	Effect of Initial Grain Size on Deformation Mechanism during High-Pressure Torsion in V ₁₀ Cr ₁₅ Mn ₅ Fe ₃₅ Co ₁₀ Ni ₂₅ High-Entropy Alloy. <i>Advanced Engineering Materials</i> , 2020 , 22, 2070002	3.5	
27	Fine-tuning of mechanical properties in V ₁₀ Cr ₁₅ Mn ₅ Fe ₃₅ Co ₁₀ Ni ₂₅ high-entropy alloy through high-pressure torsion and annealing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 771, 138604	5.3	22
26	Novel precipitation and enhanced tensile properties in selective laser melted Cu-Sn alloy. <i>Materialia</i> , 2020 , 13, 100861	3.2	8

25	Effect of Initial Grain Size on Deformation Mechanism during High-Pressure Torsion in V10Cr15Mn5Fe35Co10Ni25 High-Entropy Alloy. <i>Advanced Engineering Materials</i> , 2020 , 22, 1900587	3.5	19
24	Exceptional cryogenic strength-ductility synergy in Al _{0.3} CoCrNi medium-entropy alloy through heterogeneous grain structure and nano-scale precipitates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 766, 138372	5.3	23
23	Achieving high strength and high ductility in Al _{0.3} CoCrNi medium-entropy alloy through multi-phase hierarchical microstructure. <i>Materialia</i> , 2019 , 8, 100442	3.2	23
22	Superior cryogenic tensile properties of ultrafine-grained CoCrNi medium-entropy alloy produced by high-pressure torsion and annealing. <i>Scripta Materialia</i> , 2019 , 163, 152-156	5.6	60
21	Fine tuning of tensile properties in CrCoNi medium entropy alloy through cold rolling and annealing. <i>Intermetallics</i> , 2019 , 113, 106578	3.5	23
20	Superplasticity of V10Cr15Mn5Fe35Co10Ni25 high-entropy alloy processed using high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 764, 138198	5.3	9
19	Nanocrystalline High Entropy Alloys: Processing and Properties 2019 ,		1
18	Plastic Deformation Behavior of 40Fe ₂ 5Ni ₂ 5Cr ₁₀ Co ₁₀ V High-Entropy Alloy for Cryogenic Applications. <i>Metals and Materials International</i> , 2019 , 25, 277-284	2.4	37
17	Effect of grain size on the tensile behavior of V10Cr15Mn5Fe35Co10Ni25 high entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 744, 610-617	5.3	32
16	Fabrication and mechanical properties of TiC reinforced CoCrFeMnNi high-entropy alloy composite by water atomization and spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2019 , 781, 389-396	5.7	65
15	Phase evolution and thermal stability of AlCoCrFe high entropy alloy with carbon as unsolicited addition from milling media. <i>Materials Chemistry and Physics</i> , 2018 , 210, 57-61	4.4	34
14	High-temperature tensile deformation behavior of hot rolled CrMnFeCoNi high-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2018 , 730, 242-248	5.7	44
13	High-Entropy Alloys: Potential Candidates for High-Temperature Applications [An Overview]. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700645	3.5	148
12	Annealing-induced hardening in high-pressure torsion processed CoCrNi medium entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 734, 338-340	5.3	43
11	Ultra-high tensile strength nanocrystalline CoCrNi equi-atomic medium entropy alloy processed by high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 735, 394-397	5.3	55
10	Effect of Annealing on Microstructure and Tensile Behavior of CoCrNi Medium Entropy Alloy Processed by High-Pressure Torsion. <i>Entropy</i> , 2018 , 20,	2.8	27
9	Shock wave compaction and sintering of mechanically alloyed CoCrFeMnNi high-entropy alloy powders. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 708, 291-300	5.3	26
8	Thermal stability and grain boundary strengthening in ultrafine-grained CoCrFeNi high entropy alloy composite. <i>Materials and Design</i> , 2017 , 134, 426-433	8.1	137

7	Exceptional resistance to grain growth in nanocrystalline CoCrFeNi high entropy alloy at high homologous temperatures. <i>Journal of Alloys and Compounds</i> , 2016 , 662, 361-367	5-7	124
6	Plasma-Sprayed High Entropy Alloys: Microstructure and Properties of AlCoCrFeNi and MnCoCrFeNi. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 791-800	2-3	98
5	Effect of molybdenum and niobium on the phase formation and hardness of nanocrystalline CoCrFeNi high entropy alloys. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 8106-9	1-3	24
4	Characterization of Oxide Dispersed AlCoCrFe High Entropy Alloy Synthesized by Mechanical Alloying and Spark Plasma Sintering. <i>Transactions of the Indian Institute of Metals</i> , 2013 , 66, 369-373	1-2	47
3	Phase Evolution and Densification Behavior of Nanocrystalline Multicomponent High Entropy Alloys During Spark Plasma Sintering. <i>Jom</i> , 2013 , 65, 1797-1804	2-1	77
2	Alloying behavior in multi-component AlCoCrCuFe and NiCoCrCuFe high entropy alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 534, 83-89	5-3	250
1	The influence of laser powder-bed fusion microstructures on the corrosion behavior of CuSn alloy. <i>Journal of Materials Science</i> , 1	4-3	0