

Praveen Sathiyamoorthi

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42
papers

1,658
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h-index

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45
ext. papers

2,254
ext. citations

5.3
avg, IF

5.65
L-index

#	Paper	IF	Citations
42	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
41	High-Entropy Alloys: Potential Candidates for High-Temperature Applications [An Overview]. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700645	3.5	148
40	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
39	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
38	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
37	High-entropy alloys with heterogeneous microstructure: Processing and mechanical properties. <i>Progress in Materials Science</i> , 2020 , 100709	42.2	78
36	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
35	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
34	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
33	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
32	Ultra-high high-strain-rate superplasticity in a nanostructured high-entropy alloy. <i>Nature Communications</i> , 2020 , 11, 2736	17.4	48
31	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
30	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
29	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
28	Plastic Deformation Behavior of 40Fe $\bar{5}$ Ni $\bar{5}$ Cr $\bar{10}$ Co $\bar{10}$ V High-Entropy Alloy for Cryogenic Applications. <i>Metals and Materials International</i> , 2019 , 25, 277-284	2.4	37
27	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
26	Effect of grain size on the tensile behavior of V $\bar{10}$ Cr $\bar{15}$ Mn $\bar{5}$ Fe $\bar{35}$ Co $\bar{10}$ Ni $\bar{25}$ high entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 744, 610-617	5.3	32

25	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
24	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
23	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
22	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
21	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
20	Fine tuning of tensile properties in CrCoNi medium entropy alloy through cold rolling and annealing. <i>Intermetallics</i> , 2019 , 113, 106578	3.5	23
19	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
18	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
17	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, 1900587	3.5	19
16	Architected multi-metal CoCrFeMnNi-Inconel 718 lamellar composite by high-pressure torsion. <i>Scripta Materialia</i> , 2021 , 195, 113722	5.6	12
15	Superplasticity of V ₁₀ Cr ₁₅ Mn ₅ Fe ₃₅ Co ₁₀ Ni ₂₅ 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
14	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
13	Novel precipitation and enhanced tensile properties in selective laser melted Cu-Sn alloy. <i>Materialia</i> , 2020 , 13, 100861	3.2	8
12	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
11	Deformation-induced grain boundary segregation mediated high-strain rate superplasticity in medium entropy alloy. <i>Scripta Materialia</i> , 2022 , 207, 114239	5.6	8
10	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
9	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
8	TiC-reinforced CoCrFeMnNi composite processed by cold-consolidation and subsequent annealing. <i>Materials Letters</i> , 2021 , 303, 130503	3.3	4

7	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
6	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
5	Nanocrystalline High Entropy Alloys: Processing and Properties 2019 ,		1
4	1.7 GPa tensile strength in ferrous medium entropy alloy via martensite and precipitation. <i>Materials Letters</i> , 2021 , 130958	3.3	1
3	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
2	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
1	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	