

Mayur Vaidya

List of Publications by Year in descending order

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21
papers

1,552
citations

516710

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713466

21
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docs citations

21
times ranked

1127
citing authors

#	ARTICLE	IF	CITATIONS
1	Bulk tracer diffusion in CoCrFeNi and CoCrFeMnNi high entropy alloys. <i>Acta Materialia</i> , 2018, 146, 211-224.	7.9	295
2	High-entropy alloys by mechanical alloying: A review. <i>Journal of Materials Research</i> , 2019, 34, 664-686.	2.6	258
3	Ni tracer diffusion in CoCrFeNi and CoCrFeMnNi high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2016, 688, 994-1001.	5.5	222
4	Phase formation and thermal stability of CoCrFeNi and CoCrFeMnNi equiatomic high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2019, 774, 856-864.	5.5	105
5	Radioactive isotopes reveal a non sluggish kinetics of grain boundary diffusion in high entropy alloys. <i>Scientific Reports</i> , 2017, 7, 12293.	3.3	100
6	Phase evolution and stability of nanocrystalline CoCrFeNi and CoCrFeMnNi high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2019, 770, 1004-1015.	5.5	94
7	Influence of sequence of elemental addition on phase evolution in nanocrystalline AlCoCrFeNi: Novel approach to alloy synthesis using mechanical alloying. <i>Materials and Design</i> , 2017, 126, 37-46.	7.0	75
8	Effect of crystal structure and grain size on corrosion properties of AlCoCrFeNi high entropy alloy. <i>Journal of Alloys and Compounds</i> , 2021, 863, 158056.	5.5	65
9	Grain boundary diffusion in CoCrFeMnNi high entropy alloy: Kinetic hints towards a phase decomposition. <i>Acta Materialia</i> , 2020, 195, 304-316.	7.9	59
10	Grain growth kinetics in CoCrFeNi and CoCrFeMnNi high entropy alloys processed by spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2019, 791, 1114-1121.	5.5	57
11	Experimental assessment of the thermodynamic factor for diffusion in CoCrFeNi and CoCrFeMnNi high entropy alloys. <i>Scripta Materialia</i> , 2018, 157, 81-85.	5.2	38
12	Influence of Al content on thermal stability of nanocrystalline Al _x CoCrFeNi high entropy alloys at low and intermediate temperatures. <i>Advanced Powder Technology</i> , 2020, 31, 1985-1993.	4.1	37
13	Phenomenon of ultra-fast tracer diffusion of Co in HCP high entropy alloys. <i>Acta Materialia</i> , 2020, 196, 220-230.	7.9	27
14	Amorphization in equiatomic high entropy alloys. <i>Journal of Non-Crystalline Solids</i> , 2015, 413, 8-14.	3.1	25
15	Challenges in design and development of high entropy alloys: A thermodynamic and kinetic perspective. <i>Scripta Materialia</i> , 2020, 188, 37-43.	5.2	24
16	Influence of mechanically activated annealing on phase evolution in Al _{0.3} CoCrFeNi high-entropy alloy. <i>Journal of Materials Science</i> , 2019, 54, 14588-14598.	3.7	20
17	Impact of cryogenic cycling on tracer diffusion in plastically deformed Pd ₄₀ Ni ₄₀ P ₂₀ bulk metallic glass. <i>Acta Materialia</i> , 2021, 209, 116785.	7.9	17
18	Tracer diffusion in ordered pseudo-binary multicomponent aluminides. <i>Scripta Materialia</i> , 2020, 178, 227-231.	5.2	10

#	ARTICLE	IF	CITATIONS
19	Suppression of γ -phase in nanocrystalline CoCrFeMnNiV high entropy alloy by unsolicited contamination during mechanical alloying and spark plasma sintering. <i>Materials Chemistry and Physics</i> , 2020, 255, 123558.	4.0	10
20	Comparison of Different Processing Routes for the Synthesis of Semiconducting AlSb. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 6196-6205.	2.5	8
21	Intrinsic heterogeneity of grain boundary states in ultrafine-grained Ni: A cross-scale study by SIMS and radiotracer analyses. <i>Materialia</i> , 2022, 22, 101397.	2.7	6