

# Mayur Vaidya

## List of Publications by Year in descending order

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21  
papers

1,552  
citations

516710

16  
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713466

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docs citations

21  
times ranked

1127  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Impact of cryogenic cycling on tracer diffusion in plastically deformed Pd40 Ni40 P20 bulk metallic glass. <i>Acta Materialia</i> , 2021, 209, 116785.	7.9	17
4	Tracer diffusion in ordered pseudo-binary multicomponent aluminides. <i>Scripta Materialia</i> , 2020, 178, 227-231.	5.2	10
5	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
6	Suppression of $\gamma$ -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
7	Influence of Al content on thermal stability of nanocrystalline Al <sub>x</sub> CoCrFeNi high entropy alloys at low and intermediate temperatures. <i>Advanced Powder Technology</i> , 2020, 31, 1985-1993.	4.1	37
8	Phenomenon of ultra-fast tracer diffusion of Co in HCP high entropy alloys. <i>Acta Materialia</i> , 2020, 196, 220-230.	7.9	27
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	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
11	Influence of mechanically activated annealing on phase evolution in Al <sub>0.3</sub> CoCrFeNi high-entropy alloy. <i>Journal of Materials Science</i> , 2019, 54, 14588-14598.	3.7	20
12	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
13	High-entropy alloys by mechanical alloying: A review. <i>Journal of Materials Research</i> , 2019, 34, 664-686.	2.6	258
14	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
15	Bulk tracer diffusion in CoCrFeNi and CoCrFeMnNi high entropy alloys. <i>Acta Materialia</i> , 2018, 146, 211-224.	7.9	295
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Radioactive isotopes reveal a non sluggish kinetics of grain boundary diffusion in high entropy alloys. Scientific Reports, 2017, 7, 12293.	3.3	100
20	Ni tracer diffusion in CoCrFeNi and CoCrFeMnNi high entropy alloys. Journal of Alloys and Compounds, 2016, 688, 994-1001.	5.5	222
21	Amorphization in equiatomic high entropy alloys. Journal of Non-Crystalline Solids, 2015, 413, 8-14.	3.1	25