

K Guruvidyathri

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

419
citations

840119

11
h-index

996533

15
g-index

15
all docs

15
docs citations

15
times ranked

401
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetics and phase formation during crystallization of Hf ₆₄ Cu ₁₈ Ni ₁₈ amorphous alloy. Phase Transitions, 2021, 94, 110-121.	0.6	2
2	Studies on Kinetics of BCC to FCC Phase Transformation in AlCoCrFeNi Equiatomic High Entropy Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 1679-1688.	1.1	10
3	Evaluating the influence of microstructural attributes: Fraction, composition, size and spatial distribution of phases on the oxidation behaviour of high-entropy alloys. Corrosion Science, 2021, 184, 109381.	3.0	27
4	The first report on formation of Al-W-Cu grain boundary phase and its influence on mechanical behavior of 2D-WS ₂ reinforced Al-4Cu alloy matrix composites. Journal of Alloys and Compounds, 2021, 883, 160792.	2.8	3
5	Novel rare-earth and transition metal-based entropy stabilized oxides with spinel structure. Scripta Materialia, 2020, 178, 513-517.	2.6	47
6	Challenges in design and development of high entropy alloys: A thermodynamic and kinetic perspective. Scripta Materialia, 2020, 188, 37-43.	2.6	24
7	Suppression of γ -phase in nanocrystalline CoCrFeMnNiV high entropy alloy by unsolicited contamination during mechanical alloying and spark plasma sintering. Materials Chemistry and Physics, 2020, 255, 123558.	2.0	10
8	Novel Multicomponent B2-Ordered Aluminides: Compositional Design, Synthesis, Characterization, and Thermal Stability. Metals, 2020, 10, 1411.	1.0	15
9	Influence of processing route on the alloying behavior, microstructural evolution and thermal stability of CrMoNbTiW refractory high-entropy alloy. Journal of Materials Research, 2020, 35, 1556-1571.	1.2	13
10	Thermoelectric properties of half-Heusler high-entropy Ti ₂ NiCoSn _{1-x} Sb _{1+x} (x=0.5, 1) alloys with VEC>18. Scripta Materialia, 2020, 186, 375-380.	2.6	19
11	Phase evolution of refractory high-entropy alloy CrMoNbTiW during mechanical alloying and spark plasma sintering. Journal of Materials Research, 2019, 34, 756-766.	1.2	25
12	Thermal stability of AlCoFeMnNi high-entropy alloy. Scripta Materialia, 2019, 162, 465-467.	2.6	70
13	Phase formation and thermal stability of CoCrFeNi and CoCrFeMnNi equiatomic high entropy alloys. Journal of Alloys and Compounds, 2019, 774, 856-864.	2.8	105
14	Gibbs energy-composition plots as a tool for high-entropy alloy design. Journal of Alloys and Compounds, 2018, 768, 358-367.	2.8	25
15	Topologically Close-packed Phase Formation in High Entropy Alloys: A Review of Calphad and Experimental Results. Jom, 2017, 69, 2113-2124.	0.9	24