

K Guruvidyathri

List of Publications by Year in descending order

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