

Kg Pradeep

List of Publications by Year in descending order

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41
papers

4,192
citations

257450

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276875

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2922
citing authors

#	ARTICLE	IF	CITATIONS
1	Decomposition of the single-phase high-entropy alloy CrMnFeCoNi after prolonged anneals at intermediate temperatures. <i>Acta Materialia</i> , 2016, 112, 40-52.	7.9	653
2	Design of a twinning-induced plasticity high entropy alloy. <i>Acta Materialia</i> , 2015, 94, 124-133.	7.9	618
3	A novel, single phase, non-equiatomic FeMnNiCoCr high-entropy alloy with exceptional phase stability and tensile ductility. <i>Scripta Materialia</i> , 2014, 72-73, 5-8.	5.2	534
4	Bulk tracer diffusion in CoCrFeNi and CoCrFeMnNi high entropy alloys. <i>Acta Materialia</i> , 2018, 146, 211-224.	7.9	295
5	Thermal stability and grain boundary strengthening in ultrafine-grained CoCrFeNi high entropy alloy composite. <i>Materials and Design</i> , 2017, 134, 426-433.	7.0	195
6	Phase stability of non-equiatomic CoCrFeMnNi high entropy alloys. <i>Acta Materialia</i> , 2015, 98, 288-296.	7.9	190
7	Non-equiatomic high entropy alloys: Approach towards rapid alloy screening and property-oriented design. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 648, 183-192.	5.6	166
8	Atom probe tomography study of ultrahigh nanocrystallization rates in FeSiNbBCu soft magnetic amorphous alloys on rapid annealing. <i>Acta Materialia</i> , 2014, 68, 295-309.	7.9	146
9	The nucleation of Mo-rich Laves phase particles adjacent to M23C6 micrograin boundary carbides in 12% Cr tempered martensite ferritic steels. <i>Acta Materialia</i> , 2015, 90, 94-104.	7.9	140
10	Atomic-scale compositional characterization of a nanocrystalline AlCrCuFeNiZn high-entropy alloy using atom probe tomography. <i>Acta Materialia</i> , 2013, 61, 4696-4706.	7.9	138
11	Composition Dependence of Phase Stability, Deformation Mechanisms, and Mechanical Properties of the CoCrFeMnNi High-Entropy Alloy System. <i>Jom</i> , 2014, 66, 1993-2001.	1.9	135
12	The role of atomic scale segregation in designing highly ductile magnesium alloys. <i>Acta Materialia</i> , 2016, 116, 77-94.	7.9	126
13	Microstructure design and mechanical properties in a near- \pm Ti-4Mo alloy. <i>Acta Materialia</i> , 2015, 97, 291-304.	7.9	99
14	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
15	Combinatorial synthesis of high entropy alloys: Introduction of a novel, single phase, body-centered-cubic FeMnCoCrAl solid solution. <i>Journal of Alloys and Compounds</i> , 2017, 691, 683-689.	5.5	60
16	Effects of phase composition and elemental partitioning on soft magnetic properties of AlFeCoCrMn high entropy alloys. <i>Acta Materialia</i> , 2019, 171, 31-39.	7.9	60
17	A novel approach to measure grain boundary segregation in bulk polycrystalline materials in dependence of the boundaries' five rotational degrees of freedom. <i>Scripta Materialia</i> , 2014, 81, 16-19.	5.2	59
18	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

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19	Phase equilibria in equiatomic CoCuFeMnNi high entropy alloy. <i>Materials Chemistry and Physics</i> , 2018, 210, 269-278.	4.0	54
20	The effect of Co addition on magnetic and structural properties of nanocrystalline (Fe,Co)-Si-B-P-Cu alloys. <i>Journal of Alloys and Compounds</i> , 2018, 766, 686-693.	5.5	39
21	Enhanced superplasticity in an Al-alloyed multicomponent Mn-Si-Cr-C steel. <i>Acta Materialia</i> , 2014, 63, 232-244.	7.9	34
22	Study on the embrittlement of flash annealed Fe _{85.2} B _{9.5} P ₄ Cu _{0.8} Si _{0.5} metallic glass ribbons. <i>Materials and Design</i> , 2018, 156, 252-261.	7.0	33
23	Dynamic strain-induced transformation: An atomic scale investigation. <i>Scripta Materialia</i> , 2015, 109, 23-27.	5.2	30
24	Substrate rotation-induced chemical modulation in Ti-Al-O-N coatings synthesized by cathodic arc in an industrial deposition plant. <i>Surface and Coatings Technology</i> , 2016, 305, 249-253.	4.8	30
25	Combinatorial exploration of B ₂ /L ₂₁ precipitation strengthened AlCrFeNiTi compositionally complex alloys. <i>Journal of Alloys and Compounds</i> , 2021, 853, 156111.	5.5	22
26	Long-term thermal stability of nanoclusters in ODS-Eurofer steel: An atom probe tomography study. <i>Journal of Nuclear Materials</i> , 2017, 492, 142-147.	2.7	21
27	Nano-sized Cu clusters in deeply undercooled CoCuFeNiTa high entropy alloy. <i>Scripta Materialia</i> , 2020, 177, 58-64.	5.2	20
28	New insights into the austenitization process of low-alloyed hypereutectoid steels: Nucleation analysis of strain-induced austenite formation. <i>Acta Materialia</i> , 2014, 80, 296-308.	7.9	19
29	Structure of rapidly quenched (Cu _{0.5} Zr _{0.5}) _{100-x} Ag alloys (x= 0-40 at.%). <i>Journal of Alloys and Compounds</i> , 2014, 607, 285-290.	5.5	17
30	Atomic scale study of Cu clustering and pseudo-homogeneous Fe-Si nanocrystallization in soft magnetic FeSiNbB(Cu) alloys. <i>Ultramicroscopy</i> , 2015, 159, 285-291.	1.9	17
31	Thermal stability of nanocrystalline grains in Cu-W films. <i>Surface and Coatings Technology</i> , 2019, 357, 662-668.	4.8	16
32	Phase selection and nanocrystallization in Cu-free soft magnetic FeSiNbB amorphous alloy upon rapid annealing. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	13
33	Tailoring the nanostructure of laser powder bed fusion additively manufactured maraging steel. <i>Additive Manufacturing</i> , 2020, 36, 101561.	3.0	11
34	Development of high-coercivity state in high-energy and high-temperature Sm-Co-Fe-Cu-Zr magnets upon step cooling. <i>Journal of Alloys and Compounds</i> , 2020, 820, 153103.	5.5	10
35	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
36	Phase formation of Nb ₂ AlC investigated by combinatorial thin film synthesis and ab initio calculations. <i>Journal of the European Ceramic Society</i> , 2017, 37, 35-41.	5.7	7

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37	A combined electron microscopy, atom probe tomography and small angle X-ray scattering study of oxide dispersion strengthened 18Cr ferritic steel. <i>Materials Characterization</i> , 2020, 164, 110306.	4.4	7
38	Characterization of δ -precipitates in wire-arc additive manufactured nickel aluminum bronze: A combined transmission Kikuchi diffraction and atom probe tomography study. <i>Additive Manufacturing</i> , 2021, 46, 102137.	3.0	6
39	Ratcheting behavior of non-equiatomic TRIP dual-phase high entropy alloy. <i>Materialia</i> , 2022, 24, 101512.	2.7	5
40	Precipitation and decomposition phenomena in a Zn-Al-Cu-Mg alloy. <i>Materials Letters</i> , 2016, 175, 27-31.	2.6	3
41	Spatial Distributions of Alloying Elements Obtained from Atom Probe Tomography of the Amorphous Ribbon Fe ₇₅ C ₁₁ Si ₂ B ₈ Cr ₄ . <i>Korean Journal of Materials Research</i> , 2013, 23, 190-193.	0.2	1