

Yuankui Cao

List of Publications by Year in descending order

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papers

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27
times ranked

361
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Al and Mo on high temperature oxidation behavior of refractory high entropy alloys. Transactions of Nonferrous Metals Society of China, 2019, 29, 1476-1483.	4.2	75
2	Flow behavior and microstructures of powder metallurgical CrFeCoNiMo _{0.2} high entropy alloy during high temperature deformation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 689, 233-242.	5.6	74
3	Phase decomposition behavior and its effects on mechanical properties of TiNbTa _{0.5} ZrAl _{0.5} refractory high entropy alloy. Journal of Materials Science and Technology, 2021, 66, 10-20.	10.7	44
4	Precipitation behavior during hot deformation of powder metallurgy Ti-Nb-Ta-Zr-Al high entropy alloys. Intermetallics, 2018, 100, 95-103.	3.9	41
5	Extraordinary tensile properties of titanium alloy with heterogeneous phase-distribution based on hetero-deformation induced hardening. Materials Research Letters, 2020, 8, 254-260.	8.7	33
6	Dynamic deformation behavior of a FeCrNi medium entropy alloy. Journal of Materials Science and Technology, 2022, 100, 120-128.	10.7	30
7	Characterization of fatigue properties of powder metallurgy titanium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 654, 418-425.	5.6	27
8	A particle reinforced NbTaTiV refractory high entropy alloy based composite with attractive mechanical properties. Journal of Alloys and Compounds, 2020, 815, 152466.	5.5	26
9	Precipitation behavior and mechanical properties of a hot-worked TiNbTa _{0.5} ZrAl _{0.5} refractory high entropy alloy. International Journal of Refractory Metals and Hard Materials, 2020, 86, 105132.	3.8	24
10	Microstructure and mechanical properties of powder metallurgy high temperature titanium alloy with high Si content. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 777, 138993.	5.6	23
11	Mechanical properties and microstructural evolution of a novel (FeCoNi) _{86.93} Al _{6.17} Ti _{6.9} medium entropy alloy fabricated via powder metallurgy technique. Journal of Alloys and Compounds, 2021, 860, 158460.	5.5	22
12	Precipitation strengthening in a hot-worked TiNbTa _{0.5} ZrAl _{0.5} refractory high entropy alloy. Materials Letters, 2019, 246, 186-189.	2.6	21
13	Hot deformation behavior of nano-sized TiB reinforced Ti-6Al-4V metal matrix composites. Mechanics of Materials, 2020, 141, 103260.	3.2	14
14	Influence of different substrates on the microstructure and mechanical properties of WC-12Co cemented carbide fabricated via laser melting deposition. International Journal of Refractory Metals and Hard Materials, 2022, 104, 105787.	3.8	14
15	<i>In Situ</i> Synthesis of TiB/Ti6Al4V Composites Reinforced with Nano TiB through SPS. Materials Transactions, 2015, 56, 259-263.	1.2	13
16	Strong-yet-ductile TiâZr alloys through high concentration of oxygen strengthening. Transactions of Nonferrous Metals Society of China, 2020, 30, 2449-2458.	4.2	13
17	A novel ultra-high strength titanium alloy via hierarchical $\hat{1}\pm/\hat{1}\pm\hat{2}$ precipitation strengthening. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 840, 142878.	5.6	13
18	Characterization of hot deformation behavior of Tiâ3Alâ5Moâ4.5V alloy with a martensitic starting microstructure. Journal of Micromechanics and Molecular Physics, 2017, 02, 1750011.	1.2	11

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19	Effects of Al on Precipitation Behavior of Ti-Nb-Ta-Zr Refractory High Entropy Alloys. <i>Metals</i> , 2021, 11, 514.	2.3	11
20	Strength-ductility trade-off deviation in a pre-deformed metastable β^2 titanium alloy. <i>Journal of Alloys and Compounds</i> , 2020, 835, 155332.	5.5	9
21	High Temperature Deformation Behavior of In-Situ Synthesized Titanium-Based Composite Reinforced with Ultra-Fine TiB Whiskers. <i>Materials</i> , 2018, 11, 1863.	2.9	8
22	New Ti/ β^2 -Ti alloy laminated composite processed by powder metallurgy: Microstructural evolution and mechanical property. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 822, 141702.	5.6	7
23	Effect of oxide nanoparticles on the mechanical properties of novel cobalt-free FeCrNi medium entropy alloys. <i>Materials Letters</i> , 2021, 302, 130379.	2.6	7
24	Strengthening mechanism of Ti-W composites with heterogeneous microstructures. <i>Materials Research Letters</i> , 2022, 10, 352-359.	8.7	7
25	Microstructure and Mechanical Properties of Novel Lightweight TaNbVTi-Based Refractory High Entropy Alloys. <i>Materials</i> , 2022, 15, 355.	2.9	5
26	High-temperature mechanical properties and deformation behavior of carbides reinforced TiNbTaZrHf composite. <i>Journal of Alloys and Compounds</i> , 2022, 894, 162414.	5.5	4
27	A Focused Review on Engineering Application of Multi-Principal Element Alloy. <i>Frontiers in Materials</i> , 2022, 8, .	2.4	4