

Michael Frank

List of Publications by Year in descending order

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28
papers

1,034
citations

471371

17
h-index

501076

28
g-index

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all docs

28
docs citations

28
times ranked

656
citing authors

#	ARTICLE	IF	CITATIONS
1	Co-introduction of precipitate hardening and TRIP in a TWIP high-entropy alloy using friction stir alloying. <i>Scientific Reports</i> , 2021, 11, 1579.	1.6	8
2	Direct evidence of the stacking fault-mediated strain hardening phenomenon. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	18
3	Transformative high entropy alloy conquers the strength-ductility paradigm by massive interface strengthening. <i>Scripta Materialia</i> , 2021, 203, 114070.	2.6	13
4	Evaluating the microstructure and origin of nonmetallic inclusions in as-cast U-10Mo fuel. <i>Journal of Nuclear Materials</i> , 2021, 554, 152949.	1.3	10
5	Superplasticity in fine grained dual phase high entropy alloy. <i>Materialia</i> , 2020, 9, 100521.	1.3	20
6	Investigating the deformation mechanisms of a highly metastable high entropy alloy using in-situ neutron diffraction. <i>Materials Today Communications</i> , 2020, 23, 100858.	0.9	18
7	Friction stir gradient alloying: A novel solid-state high throughput screening technique for high entropy alloys. <i>Materials Today Communications</i> , 2020, 23, 100869.	0.9	14
8	Deformation mechanisms and ductile fracture characteristics of a friction stir processed transformative high entropy alloy. <i>Acta Materialia</i> , 2020, 184, 164-178.	3.8	30
9	Microstructurally flexible high entropy alloys: Linkages between alloy design and deformation behavior. <i>Materials and Design</i> , 2020, 194, 108968.	3.3	34
10	Effect of Strain Rate on Deformation Response of Metastable High Entropy Alloys Upon Friction Stir Processing. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 5043-5048.	1.1	5
11	Correlating work hardening with co-activation of stacking fault strengthening and transformation in a high entropy alloy using in-situ neutron diffraction. <i>Scientific Reports</i> , 2020, 10, 22263.	1.6	17
12	Metastability driven hierarchical microstructural engineering: Overview of mechanical properties of metastable complex concentrated alloys. <i>Journal of Alloys and Compounds</i> , 2020, 842, 155625.	2.8	24
13	Notch-tensile behavior of Al _{0.1} CrFeCoNi high entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 774, 138918.	2.6	13
14	Evolution of bond formation and fracture process of ultrasonic spot welded dissimilar materials. <i>Science and Technology of Welding and Joining</i> , 2019, 24, 171-177.	1.5	12
15	On the evolving nature of c/a ratio in a hexagonal close-packed epsilon martensite phase in transformative high entropy alloys. <i>Scientific Reports</i> , 2019, 9, 13185.	1.6	40
16	Nanoindentation behavior of high entropy alloys with transformation-induced plasticity. <i>Scientific Reports</i> , 2019, 9, 6639.	1.6	41
17	Extremely high fatigue resistance in an ultrafine grained high entropy alloy. <i>Applied Materials Today</i> , 2019, 15, 525-530.	2.3	61
18	Development of in situ composites via reactive friction stir processing of Tiâ€“B4C system. <i>Composites Part B: Engineering</i> , 2019, 172, 54-60.	5.9	38

#	ARTICLE	IF	CITATIONS
19	Revealing the microstructural evolution in a high entropy alloy enabled with transformation, twinning and precipitation. <i>Materialia</i> , 2019, 6, 100310.	1.3	16
20	Corrosion-resistant high entropy alloy with high strength and ductility. <i>Scripta Materialia</i> , 2019, 166, 168-172.	2.6	148
21	Microstructural Evolution and Deformation Behavior of Ni-Si- and Co-Si-Containing Metastable High Entropy Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 179-190.	1.1	10
22	Metastability-assisted fatigue behavior in a friction stir processed dual-phase high entropy alloy. <i>Materials Research Letters</i> , 2018, 6, 613-619.	4.1	54
23	Unexpected strength-ductility response in an annealed, metastable, high-entropy alloy. <i>Applied Materials Today</i> , 2018, 13, 198-206.	2.3	50
24	Reversed strength-ductility relationship in microstructurally flexible high entropy alloy. <i>Scripta Materialia</i> , 2018, 154, 163-167.	2.6	72
25	Towards attaining dissimilar lap joint of CuCrZr alloy and 316L stainless steel using friction stir welding. <i>Science and Technology of Welding and Joining</i> , 2018, 23, 715-720.	1.5	15
26	Extremely high strength and work hardening ability in a metastable high entropy alloy. <i>Scientific Reports</i> , 2018, 8, 9920.	1.6	96
27	Towards Obtaining Sound Butt Joint Between Metallurgically Immiscible Pure Cu and Stainless Steel Through Friction Stir Welding. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 2578-2582.	1.1	30
28	Enhanced strength and ductility in a friction stir processing engineered dual phase high entropy alloy. <i>Scientific Reports</i> , 2017, 7, 16167.	1.6	127