Mahmood Mamivand

List of Publications by Year
in descending order

19	834	687220 13	839398 18
papers	citations	h-index	g-index

20	20	20	735
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Deep learning approach for chemistry and processing history prediction from materials microstructure. Scientific Reports, 2022, 12, 4552.	1.6	7
2	Concurrent modeling of martensitic transformation and crack growth in polycrystalline shape memory ceramics. Engineering Fracture Mechanics, 2021, 241, 107403.	2.0	14
3	Ballâ€onâ€ring test validation for equibiaxial flexural strength testing of engineered ceramics. International Journal of Ceramic Engineering & Science, 2021, 3, 128-139.	0.5	7
4	Three-dimensional phase field modeling of fracture in shape memory ceramics. International Journal of Mechanical Sciences, 2021, 204, 106550.	3.6	7
5	Phase field modeling of crack propagation in shape memory ceramics â€“ Application to zirconia. Computational Materials Science, 2020, 174, 109509.	1.4	20
6	Simulation of Cu precipitation in Fe-Cu dilute alloys with cluster mobility. Materials and Design, 2020, 191, 108574.	3.3	16
7	CuMnNiSi precipitate evolution in irradiated reactor pressure vessel steels: Integrated Cluster Dynamics and experiments. Acta Materialia, 2019, 180, 199-217.	3.8	33
8	A review of computational modeling techniques in study and design of shape memory ceramics. Computational Materials Science, 2019, 160, 120-136.	1.4	25
9	Anisotropic Phase-Field Modeling of Crack Growth in Shape Memory Ceramics: Application to Zirconia. , 2019, , .		2
10	Integrated modeling of second phase precipitation in cold-worked 316 stainless steels under irradiation. Acta Materialia, 2017, 130, 94-110.	3.8	30
11	Observations of defect structure evolution in proton and Ni ion irradiated Ni-Cr binary alloys. Journal of Nuclear Materials, 2016, 479, 48-58.	1.3	16
12	Simulated spatial and temporal dependence of chromium concentration in pure Fe and Fe 14%Cr under high dpa ion irradiation. Journal of Nuclear Materials, 2016, 479, 23-35.	1.3	13
13	Effect of variant strain accommodation on the three-dimensional microstructure formation during martensitic transformation: Application to zirconia. Acta Materialia, 2015, 87, 45-55.	3.8	36
14	Phase field modeling of stress-induced tetragonal-to-monoclinic transformation in zirconia and its effect on transformation toughening. Acta Materialia, 2014, 64, 208-219.	3.8	102
15	Shape memory effect and pseudoelasticity behavior in tetragonal zirconia polycrystals: A phase field study. International Journal of Plasticity, 2014, 60, 71-86.	4.1	71
16	Phase field modeling of the tetragonal-to-monoclinic phase transformation in zirconia. Acta Materialia, 2013, 61, 5223-5235.	3.8	136
17	Transformations and cracks in zirconia films leading to breakaway oxidation of Zircaloy. Acta Materialia, 2013, 61, 3923-3935.	3.8	42
18	A review on phase field modeling of martensitic phase transformation. Computational Materials Science, 2013, 77, 304-311.	1.4	150

#	Article	IF	Citations
19	A model for ballistic impact on multi-layer fabric targets. International Journal of Impact Engineering, 2010, 37, 806-812.	2.4	107