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	A review on phase field modeling of martensitic phase transformation. Computational Materials Science, 2013, 77, 304-311.	1.4	150
2	Phase field modeling of the tetragonal-to-monoclinic phase transformation in zirconia. Acta Materialia, 2013, 61, 5223-5235.	3.8	136
3	A model for ballistic impact on multi-layer fabric targets. International Journal of Impact Engineering, 2010, 37, 806-812.	2.4	107
4	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
5	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
6	Transformations and cracks in zirconia films leading to breakaway oxidation of Zircaloy. Acta Materialia, 2013, 61, 3923-3935.	3.8	42
7	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
8	CuMnNiSi precipitate evolution in irradiated reactor pressure vessel steels: Integrated Cluster Dynamics and experiments. Acta Materialia, 2019, 180, 199-217.	3.8	33
9	Integrated modeling of second phase precipitation in cold-worked 316 stainless steels under irradiation. Acta Materialia, 2017, 130, 94-110.	3.8	30
10	A review of computational modeling techniques in study and design of shape memory ceramics. Computational Materials Science, 2019, 160, 120-136.	1.4	25
11	Phase field modeling of crack propagation in shape memory ceramics â€“ Application to zirconia. Computational Materials Science, 2020, 174, 109509.	1.4	20
12	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
13	Simulation of Cu precipitation in Fe-Cu dilute alloys with cluster mobility. Materials and Design, 2020, 191, 108574.	3.3	16
14	Concurrent modeling of martensitic transformation and crack growth in polycrystalline shape memory ceramics. Engineering Fracture Mechanics, 2021, 241, 107403.	2.0	14
15	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
16	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
17	Three-dimensional phase field modeling of fracture in shape memory ceramics. International Journal of Mechanical Sciences, 2021, 204, 106550.	3.6	7
18	Deep learning approach for chemistry and processing history prediction from materials microstructure. Scientific Reports, 2022, 12, 4552.	1.6	7

#	Article	IF	Citations
19	Anisotropic Phase-Field Modeling of Crack Growth in Shape Memory Ceramics: Application to Zirconia. , 2019, , .		2