

Richard Karnesky

List of Publications by Year in descending order

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19
papers

1,104
citations

933447

10
h-index

1058476

14
g-index

19
all docs

19
docs citations

19
times ranked

833
citing authors

#	ARTICLE	IF	CITATIONS
1	Precipitation evolution in Al ^{0.1} Sc, Al ^{0.1} Zr and Al ^{0.1} Sc ^{0.1} Zr (at.%) alloys during isochronal aging. Acta Materialia, 2010, 58, 5184-5195.	7.9	408
2	Effects of substituting rare-earth elements for scandium in a precipitation-strengthened Al ^{0.08} at.%Sc alloy. Scripta Materialia, 2006, 55, 437-440.	5.2	129
3	Erbium and ytterbium solubilities and diffusivities in aluminum as determined by nanoscale characterization of precipitates. Acta Materialia, 2009, 57, 4081-4089.	7.9	114
4	Evolution of nanoscale precipitates in Al microalloyed with Sc and Er. Acta Materialia, 2009, 57, 4022-4031.	7.9	111
5	Tritium Barriers and Tritium Diffusion in Fusion Reactors. , 2012, , 511-549.		98
6	Strengthening mechanisms in aluminum containing coherent Al ₃ Sc precipitates and incoherent Al ₂ O ₃ dispersoids. Acta Materialia, 2007, 55, 1299-1308.	7.9	80
7	Best-fit ellipsoids of atom-probe tomographic data to study coalescence of $\hat{\Gamma}$ (L12) precipitates in Ni ^{Al} Cr. Scripta Materialia, 2007, 57, 353-356.	5.2	45
8	Atomistic calculations of dislocation core energy in aluminium. Physical Review B, 2017, 95, .	3.2	42
9	Molecular dynamics studies of irradiation effects on hydrogen isotope diffusion through nickel crystals and grain boundaries. Physical Chemistry Chemical Physics, 2018, 20, 520-534.	2.8	23
10	Direct measurement of two-dimensional and three-dimensional interprecipitate distance distributions from atom-probe tomographic reconstructions. Applied Physics Letters, 2007, 91, .	3.3	18
11	Gas-driven permeation of deuterium through tungsten and tungsten alloys. Fusion Engineering and Design, 2016, 109-111, 104-108.	1.9	17
12	Elastic Property Dependence on Mobile and Trapped Hydrogen in Ni-201. Jom, 2017, 69, 45-50.	1.9	8
13	Molecular dynamics studies of lattice defect effects on tritium diffusion in zirconium. Journal of Nuclear Materials, 2021, 555, 153099.	2.7	4
14	Hydrogen Isotope Permeation and Trapping in Additively Manufactured Steels. , 2017, , .		3
15	Characterization of the Ne ^{Al} scattering potential using low energy ion scattering maps. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 1229-1233.	1.4	2
16	Dynamical diffraction peak splitting in time-of-flight neutron diffraction. Applied Physics Letters, 2006, 89, 233515.	3.3	1
17	Synergies between computational modeling and experimental characterization of materials across length scales. Journal of Materials Science, 2016, 51, 1176-1177.	3.7	1
18	Investigating Dislocation-Twin Boundary Interactions in Nickel using Diffraction Contrast Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2016, 22, 1934-1935.	0.4	0

#	ARTICLE	IF	CITATIONS
19	Interactions Between Gaseous Hydrogen and Aluminum Surfaces. , 2014, , 523-530.		0