Subhashish Meher

List of Publications by Year
in descending order

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27	722	687363 13	642732 23
papers	citations	h-index	g-index

28	28	28	761
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Three-dimensional nanoscale characterisation of materials by atom probe tomography. International Materials Reviews, 2018, 63, 68-101.	19.3	119
2	Coarsening kinetics of Î³â€² precipitates in cobalt-base alloys. Acta Materialia, 2013, 61, 4266-4276.	7.9	111
3	Solute partitioning and site preference in Î³/Î³â€² cobalt-base alloys. Scripta Materialia, 2012, 67, 850-853.	5.2	89
4	Partitioning and site occupancy of Ta and Mo in Co-base Î³/Î³â€² alloys studied by atom probe tomography. Intermetallics, 2014, 49, 138-142.	3.9	72
5	Solute partitioning in multi-component Î³/Î³â€² Coâ€“Ni-base superalloys with near-zero lattice misfit. Scripta Materialia, 2016, 113, 185-189.	5.2	56
6	Designing nickel base alloys for microstructural stability through low Î³-Î³â€² interfacial energy and lattice misfit. Materials and Design, 2018, 140, 249-256.	7.0	44
7	Enhancing elevated temperature strength of copper containing aluminium alloys by forming L12 Al3Zr precipitates and nucleating Î¸â€² precipitates on them. Scientific Reports, 2017, 7, 11154.	3.3	41
8	Conjugated precipitation of twin-related Î± and Ti2Cu phases in a Tiâ€“25Vâ€“3Cu alloy. Acta Materialia, 2015, 84, 457-471.	7.9	32
9	Homogeneous and heterogeneous precipitation mechanisms in a binary Mgâ€“Nd alloy. Journal of Materials Science, 2014, 49, 6986-7003.	3.7	23
10	Evolution of a honeycomb network of precipitates in a hot-rolled commercial Mgâ€“Yâ€“Ndâ€“Zr alloy. Philosophical Magazine Letters, 2013, 93, 395-404.	1.2	22
11	Probing the crystallography of ordered Phases by coupling of orientation microscopy with atom probe tomography. Ultramicroscopy, 2015, 148, 67-74.	1.9	19
12	Determination of solute site occupancies within Î³â€² precipitates in nickel-base superalloys via orientation-specific atom probe tomography. Ultramicroscopy, 2015, 159, 272-277.	1.9	18
13	The origin and stability of nanostructural hierarchy in crystalline solids. Science Advances, 2018, 4, eaao6051.	10.3	17
14	Influence of composition on monomodal versus multimodal Î³â€² precipitation in Niâ€“Alâ€“Cr alloys. Journal of Materials Science, 2013, 48, 825-831.	3.7	12
15	Coarsening behaviour of gamma prime precipitates and concurrent transitions in the interface width in Ni-14 at.% Al-7 at.% Cr. Philosophical Magazine Letters, 2013, 93, 521-530.	1.2	12
16	Determination of the gamma prime/gamma interface width in a Coâ€“Alâ€“W alloy via coupled aberration-corrected scanning transmission electron microscopy and atom probe tomography. Scripta Materialia, 2016, 121, 23-27.	5.2	11
17	A Novel Dual-Step Nucleation Pathway in Crystalline Solids under Neutron Irradiation. Scientific Reports, 2018, 8, 98.	3.3	9
18	Understanding of fission products transport in SiC layer of TRISO fuels by nanoscale characterization and modeling. Journal of Nuclear Materials, 2019, 527, 151793.	2.7	6

#	Article	IF	Citations
19	Effect of High Si Content on U3Si2 Fuel Microstructure. Jom, 2018, 70, 209-213.	1.9	3
20	Ab initio study and thermodynamic modeling of the Pd-Si-C system. Computational Materials Science, 2020, 171, 109238.	3.0	3
21	Probing the Crystallography of Ordered Phases by coupling Orientation Microscopy and Atom Probe Tomography. Microscopy and Microanalysis, 2014, 20, 958-959.	0.4	1
22	Understanding of Inverse Coarsening of Î³' precipitates in Ni-base Superalloys. Microscopy and Microanalysis, 2016, 22, 1258-1259.	0.4	1
23	Micro- and Nano-Characterization of Neutron Irradiated TRISO Coated Particles. Microscopy and Microanalysis, 2019, 25, 1612-1613.	0.4	1
24	Direct Atomic Scale Observation of the Structure and Chemistry of Order/Disorder Î³'/Î³ Interfaces in Nickel Base Superalloys. Microscopy and Microanalysis, 2013, 19, 944-945.	0.4	0
25	Understanding of a Novel Irradiation-induced Nanostructuring Process in SiC layer of TRISO fuel particles via Transmission Electron Microscopy. Microscopy and Microanalysis, 2018, 24, 2208-2209.	0.4	0
26	Microstructural and Micro-Chemical Evolutions in Irradiated UCO Fuel Kernels of AGR-1 and AGR-2 TRISO Fuel Particles. Journal of Physics: Conference Series, 2021, 2048, 012006.	0.4	0
27	In-situ High Temperature Ion Irradiation Transmission Electron Microscopy to Understand Fission Product Transport in Silicon Carbide of TRISO Fuel. Microscopy and Microanalysis, 2020, 26, 870-871.	0.4	0