

Stephen M Bruemmer

List of Publications by Year in descending order

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Version: 2024-02-01

10
papers

284
citations

1307594

7
h-index

1474206

9
g-index

10
all docs

10
docs citations

10
times ranked

348
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomic origins of water-vapour-promoted alloy oxidation. <i>Nature Materials</i> , 2018, 17, 514-518.	27.5	106
2	In-situ transmission electron microscopy study of surface oxidation for Ni ¹⁰ Cr and Ni ²⁰ Cr alloys. <i>Scripta Materialia</i> , 2016, 114, 129-132.	5.2	43
3	In situ atomic scale visualization of surface kinetics driven dynamics of oxide growth on a Ni ⁴ Cr surface. <i>Chemical Communications</i> , 2016, 52, 3300-3303.	4.1	38
4	Direct in Situ TEM Observation of Modification of Oxidation by the Injected Vacancies for Ni ⁴ Al Alloy Using a Microfabricated Nanopost. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 17272-17277.	8.0	35
5	Deciphering atomistic mechanisms of the gas-solid interfacial reaction during alloy oxidation. <i>Science Advances</i> , 2020, 6, eaay8491.	10.3	20
6	First-Principles Investigation of Native Interstitial Diffusion in Cr ₂ O ₃ . <i>Journal of Physical Chemistry C</i> , 2018, 122, 12984-12993.	3.1	19
7	Temperature Dependence of Self-Diffusion in Cr ₂ O ₃ from First Principles. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22139-22150.	3.1	12
8	Characterization of Stress Corrosion Cracking Initiation Precursors in Cold-Worked Alloy 690 Using Advanced High-Resolution Microscopy. <i>Corrosion</i> , 2019, 75, 727-736.	1.1	8
9	Modeling selective intergranular oxidation of binary alloys. <i>Journal of Chemical Physics</i> , 2015, 142, 014704.	3.0	3
10	Electron Microscopy Analysis of Grain Boundary Corrosion in Ni-Cr Binary Alloys Exposed to High Temperature Hydrogenated Water. <i>Microscopy and Microanalysis</i> , 2015, 21, 1175-1176.	0.4	0