

David Parfitt

List of Publications by Year in descending order

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papers

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27
all docs

27
docs citations

27
times ranked

1788
citing authors

#	ARTICLE	IF	CITATIONS
1	DIMS: A tool for setting up defects and impurities CASTEP calculations. Computational Materials Science, 2022, 202, 110976.	1.4	6
2	Precipitation behaviour of single and duplex aged metastable β -Ti alloy, Ti-5Al-5Mo-3Cr. Materials Science and Technology, 2022, 38, 1110-1117.	0.8	4
3	Influence of cooling rate on the precipitation kinetics of nanoscale isothermal β -phase in metastable β -Ti alloy, Ti-5Al-5Mo-3Cr. Journal of Alloys and Compounds, 2021, 859, 157822.	2.8	17
4	Behavior of Li-ion on the surface of Ti ₃ C ₂ T (T = O, S, Se, F, Cl, Br) MXene: Diffusion barrier and conductive pathways. Journal of Applied Physics, 2021, 130, .	1.1	14
5	The ageing response of direct laser deposited metastable β -Ti alloy, Ti-5Al-5Mo-3Cr. Additive Manufacturing, 2021, 48, 102384.	1.7	3
6	A perspective on MXenes: Their synthesis, properties, and recent applications. Journal of Applied Physics, 2020, 128, .	1.1	72
7	Characterization and application of Bragg-edge transmission imaging for strain measurement and crystallographic analysis on the IMAT beamline. Journal of Applied Crystallography, 2019, 52, 351-368.	1.9	20
8	Post-irradiation annealing of Ni-Mn-Si-enriched clusters in a neutron-irradiated RPV steel weld using Atom Probe Tomography. Journal of Nuclear Materials, 2015, 459, 127-134.	1.3	65
9	SANS examination of irradiated RPV steel welds during in-situ annealing. Journal of Nuclear Materials, 2015, 461, 45-50.	1.3	3
10	Linking atomic and mesoscopic scales for the modelling of the transport properties of uranium dioxide under irradiation. Journal of Nuclear Materials, 2015, 462, 475-495.	1.3	32
11	OPTIMIZING OXYGEN DIFFUSION IN CATHODE MATERIALS FOR SOLID OXIDE FUEL CELLS. Modern Physics Letters B, 2012, 26, 1250196.	1.0	6
12	Thermal conductivity and the isotope effect in Li ₂ O. Fusion Engineering and Design, 2012, 87, 1834-1838.	1.0	5
13	Solution of trivalent cations into uranium dioxide. Journal of Nuclear Materials, 2012, 420, 258-261.	1.3	44
14	Molecular dynamics study of Xe bubble re-resolution in UO ₂ . Journal of Nuclear Materials, 2012, 420, 282-290.	1.3	52
15	Anisotropic oxygen diffusion in PrBaCo ₂ O _{5.5} double perovskites. Solid State Ionics, 2012, 216, 41-43.	1.3	92
16	Interstitialcy diffusion of oxygen in tetragonal La ₂ CoO ₄ . Physical Chemistry Chemical Physics, 2011, 13, 2242-2249.	1.3	104
17	Oxygen ion diffusion in cation ordered/disordered GdBaCo ₂ O ₅ . Journal of Materials Chemistry, 2011, 21, 2183-2186.	6.7	139
18	Atomic Scale Modeling of Point Defects in Zirconium Diboride. Journal of the American Ceramic Society, 2011, 94, 2225-2229.	1.9	34

#	ARTICLE	IF	CITATIONS
19	Oxygen diffusion in solid oxide fuel cell cathode and electrolyte materials: mechanistic insights from atomistic simulations. <i>Energy and Environmental Science</i> , 2011, 4, 2774.	15.6	354
20	Oxygen Diffusion in Ordered/Disordered Double Perovskites. <i>ECS Transactions</i> , 2011, 35, 1151-1154.	0.3	3
21	Anisotropic oxygen diffusion in tetragonal $\text{La}_{2}\text{NiO}_{4+\delta}$: molecular dynamics calculations. <i>Journal of Materials Chemistry</i> , 2010, 20, 266-270.	6.7	199
22	Molecular dynamics study of oxygen diffusion in $\text{Pr}_2\text{NiO}_{4+\delta}$. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 6834.	1.3	96
23	Predicted energies and structures of. <i>Journal of Solid State Chemistry</i> , 2010, 183, 2261-2267.	1.4	13
24	Strain fields and line energies of dislocations in uranium dioxide. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 175004.	0.7	25
25	Predicting the probability for fission gas resolution into uranium dioxide. <i>Journal of Nuclear Materials</i> , 2009, 392, 28-34.	1.3	34
26	Predicted mechanisms for radiation enhanced helium resolution in uranium dioxide. <i>Journal of Nuclear Materials</i> , 2008, 381, 216-222.	1.3	48
27	High-pressure dissociation of silver mercury iodide, Ag_2HgI_4 . <i>Journal of Solid State Chemistry</i> , 2004, 177, 3715-3720.	1.4	5