

Jacob Bowen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8503748/publications.pdf>

Version: 2024-02-01

33
papers

632
citations

686830

13
h-index

580395

25
g-index

37
all docs

37
docs citations

37
times ranked

888
citing authors

#	ARTICLE	IF	CITATIONS
1	Visualization of Dissolution&Precipitation Processes in Lithium&Sulfur Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	24
2	Hybrid inks for 3D printing of tall BaTiO ₃ -based ceramics. <i>Open Ceramics</i> , 2021, 6, 100110.	1.0	6
3	Tracking nickel oxide reduction in solid oxide cells via ex-situ ptychographic nano-tomography. <i>Materials Characterization</i> , 2020, 162, 110183.	1.9	8
4	Enhanced Electromechanical Response in Sm and Nd Co-doped Ceria. <i>Materialia</i> , 2020, 12, 100728.	1.3	13
5	In-operando observation of microstructural evolution in a solid oxide cell electrolyte operating at high polarization. <i>Journal of Power Sources</i> , 2019, 413, 351-359.	4.0	12
6	Support-free nanostructured Pt Cu electrocatalyst for the oxygen reduction reaction prepared by alternating magnetron sputtering. <i>Journal of Power Sources</i> , 2019, 413, 432-440.	4.0	12
7	Deposition of highly oriented (K,Na)NbO ₃ films on flexible metal substrates. <i>Thin Solid Films</i> , 2018, 650, 7-10.	0.8	10
8	Three dimensional characterization of nickel coarsening in solid oxide cells via ex-situ ptychographic nano-tomography. <i>Journal of Power Sources</i> , 2018, 383, 72-79.	4.0	29
9	Lattice constant measurement from electron backscatter diffraction patterns. <i>Journal of Microscopy</i> , 2017, 266, 200-210.	0.8	26
10	Special Issue on Modeling and Experimental Validation of Fuel Cells, Batteries, and Electrolysers. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2017, 14, .	1.1	0
11	3D-printed barium titanate/poly-(vinylidene fluoride) nano-hybrids with anisotropic dielectric properties. <i>Journal of Materials Chemistry C</i> , 2017, 5, 12430-12440.	2.7	33
12	Ex-situ tracking solid oxide cell electrode microstructural evolution in a redox cycle by high resolution ptychographic nanotomography. <i>Journal of Power Sources</i> , 2017, 360, 520-527.	4.0	20
13	Stability of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O ₃ /Ce _{0.9} Gd _{0.1} O ₂ cathodes during sintering and solid oxide fuel cell operation. <i>Journal of Power Sources</i> , 2015, 283, 151-161.	4.0	77
14	Electrochemistry Unlocks Wettability: Epitaxial Growth of Oxide Nanoparticles on Rough Metallic Surfaces. <i>ChemElectroChem</i> , 2014, 1, 520-523.	1.7	22
15	On the accuracy of triple phase boundary lengths calculated from tomographic image data. <i>Journal of Power Sources</i> , 2014, 261, 198-205.	4.0	17
16	Diffusion of Nickel into Ferritic Steel Interconnects of Solid Oxide Fuel/Electrolysis Stacks. <i>ECS Transactions</i> , 2013, 57, 2245-2252.	0.3	13
17	Ion beam polishing for three&dimensional electron backscattered diffraction. <i>Journal of Microscopy</i> , 2013, 249, 36-40.	0.8	7
18	Transmission Electron Microscopy Specimen Preparation Method for Multiphase Porous Functional Ceramics. <i>Microscopy and Microanalysis</i> , 2013, 19, 501-505.	0.2	12

#	ARTICLE	IF	CITATIONS
19	Microstructural Degradation of Ni/YSZ Electrodes in Solid Oxide Electrolysis Cells under High Current. Journal of the Electrochemical Society, 2013, 160, F883-F891.	1.3	136
20	Effects of focused ion beam milling on electron backscatter diffraction patterns in strontium titanate and stabilized zirconia. Journal of Microscopy, 2012, 246, 279-286.	0.8	10
21	Geometrical characterization of interconnected phase networks in three dimensions. Journal of Microscopy, 2011, 244, 45-58.	0.8	25
22	Determination of Three Dimensional Microstructure Parameters from a Solid Oxide Ni/YSZ Electrode after Electrolysis Operation. ECS Transactions, 2011, 35, 1655-1660.	0.3	7
23	Texture evolution during tensile necking of copper processed by equal channel angular extrusion. Journal of Physics: Conference Series, 2010, 240, 012161.	0.3	1
24	Quantification of microstructure refinement in aluminium deformed by equal channel angular extrusion: Route A vs. route Bc in a 90° die. Scripta Materialia, 2010, 63, 20-23.	2.6	17
25	A framework for automatic segmentation in three dimensions of microstructural tomography data. Ultramicroscopy, 2010, 110, 216-228.	0.8	50
26	Phase Formation in the System ZrO_2 - $LaO_{1.5}$ - MnO_x in Air and 10^{-4} Pa After 500 h of Annealing at 1200°C and 1400°C. Journal of the American Ceramic Society, 2010, 93, 2884-2890.	1.9	2
27	Quantitative characterization of the orientation spread within individual grains in copper after tensile deformation. International Journal of Materials Research, 2009, 100, 433-438.	0.1	17
28	Microstructure Evolution after Large Strain Deformation in Al-0.13%Mg. Materials Science Forum, 2007, 550, 235-240.	0.3	1
29	The Effect of Second-Phase Particles on the Severe Deformation of Aluminium Alloys during Equal Channel Angular Extrusion. , 2005, , 138-144.		1
30	Effects of strain on the microstructure-hardness annealing response of highly deformed Al-0.13Mg. Materials Science and Technology, 2005, 21, 1460-1465.	0.8	1
31	Recrystallization Kinetics in the Bulk and at the Surface. Materials Science Forum, 2004, 467-470, 147-152.	0.3	1
32	Stability of Ultra-Fine Grain Structures™ Produced by Severe Deformation. Materials Science Forum, 2004, 467-470, 1261-1270.	0.3	10
33	Microstructural Evolution of the Deformed State during Severe Deformation of an ECAE Processed Al-0.13%Mg Alloy. Materials Science Forum, 2000, 331-337, 545-550.	0.3	10