Jacob Bowen

List of Publications by Year in descending order

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686830 580395 25 33 632 13 h-index citations g-index papers 37 37 37 888 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	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
2	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. Journal of Power Sources, 2015, 283, 151-161.	4.0	77
3	A framework for automatic segmentation in three dimensions of microstructural tomography data. Ultramicroscopy, 2010, 110, 216-228.	0.8	50
4	3D-printed barium titanate/poly-(vinylidene fluoride) nano-hybrids with anisotropic dielectric properties. Journal of Materials Chemistry C, 2017, 5, 12430-12440.	2.7	33
5	Three dimensional characterization of nickel coarsening in solid oxide cells via ex-situ ptychographic nano-tomography. Journal of Power Sources, 2018, 383, 72-79.	4.0	29
6	Lattice constant measurement from electron backscatter diffraction patterns. Journal of Microscopy, 2017, 266, 200-210.	0.8	26
7	Geometrical characterization of interconnected phase networks in three dimensions. Journal of Microscopy, 2011, 244, 45-58.	0.8	25
8	Visualization of Dissolutionâ€Precipitation Processes in Lithium–Sulfur Batteries. Advanced Energy Materials, 2022, 12, .	10.2	24
9	Electrochemistry Unlocks Wettability: Epitaxial Growth of Oxide Nanoparticles on Rough Metallic Surfaces. ChemElectroChem, 2014, 1, 520-523.	1.7	22
10	Ex-situ tracking solid oxide cell electrode microstructural evolution in a redox cycle by high resolution ptychographic nanotomography. Journal of Power Sources, 2017, 360, 520-527.	4.0	20
11	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
12	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
13	On the accuracy of triple phase boundary lengths calculated from tomographic image data. Journal of Power Sources, 2014, 261, 198-205.	4.0	17
14	Diffusion of Nickel into Ferritic Steel Interconnects of Solid Oxide Fuel/Electrolysis Stacks. ECS Transactions, 2013, 57, 2245-2252.	0.3	13
15	Enhanced Electromechanical Response in Sm and Nd Co-doped Ceria. Materialia, 2020, 12, 100728.	1.3	13
16	Transmission Electron Microscopy Specimen Preparation Method for Multiphase Porous Functional Ceramics. Microscopy and Microanalysis, 2013, 19, 501-505.	0.2	12
17	In-operando observation of microstructural evolution in a solid oxide cell electrolyte operating at high polarization. Journal of Power Sources, 2019, 413, 351-359.	4.0	12
18	Support-free nanostructured Pt Cu electrocatalyst for the oxygen reduction reaction prepared by alternating magnetron sputtering. Journal of Power Sources, 2019, 413, 432-440.	4.0	12

#	Article	IF	CITATIONS
19	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
20	Stability of Ultra-Fine â€~Grain Structures' Produced by Severe Deformation. Materials Science Forum, 2004, 467-470, 1261-1270.	0.3	10
21	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
22	Deposition of highly oriented (K,Na)NbO3 films on flexible metal substrates. Thin Solid Films, 2018, 650, 7-10.	0.8	10
23	Tracking nickel oxide reduction in solid oxide cells via ex-situ ptychographic nano-tomography. Materials Characterization, 2020, 162, 110183.	1.9	8
24	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
25	lon beam polishing for threeâ€dimensional electron backscattered diffraction. Journal of Microscopy, 2013, 249, 36-40.	0.8	7
26	Hybrid inks for 3D printing of tall BaTiO3-based ceramics. Open Ceramics, 2021, 6, 100110.	1.0	6
27	Phase Formation in the System ZrO ₂ –LaO _{1.5} –MnO <i>_x</i> in Air and <i>P</i> i>ⰼ1 Pa After 500 h of Annealing at 1200° and 1400°C. Journal of the American Ceramic Society, 2010, 93, 2884-2890.	1.9	2
28	Recrystallization Kinetics in the Bulk and at the Surface. Materials Science Forum, 2004, 467-470, 147-152.	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	Microstructure Evolution after Large Strain Deformation in Al-0.13%Mg. Materials Science Forum, 2007, 550, 235-240.	0.3	1
32	Texture evolution during tensile necking of copper processed by equal channel angular extrusion. Journal of Physics: Conference Series, 2010, 240, 012161.	0.3	1
33	Special Issue on Modeling and Experimental Validation of Fuel Cells, Batteries, and Electrolysers. Journal of Electrochemical Energy Conversion and Storage, 2017, 14, .	1.1	0