Elliotâ€S Padgett

List of Publications by Year
in descending order

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36	1,496	566801 15	552369 26
papers	citations	h-index	g-index

36	36	36	2981
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Atomically engineered ferroic layers yield a room-temperature magnetoelectric multiferroic. Nature, 2016, 537, 523-527.	13.7	275
2	Pt-Rich_{core}/Sn-Rich_{subsurface}/Pt_{skin} Nanocubes As Highly Active and Stable Electrocatalysts for the Ethanol Oxidation Reaction. Journal of the American Chemical Society, 2018, 140, 3791-3797.	6.6	166
3	Real-time imaging of activation and degradation of carbon supported octahedral Ptâ€“Ni alloy fuel cell catalysts at the nanoscale using in situ electrochemical liquid cell STEM. Energy and Environmental Science, 2019, 12, 2476-2485.	15.6	146
4	Tuning the Electrocatalytic Oxygen Reduction Reaction Activity and Stability of Shape-Controlled Ptâ€“Ni Nanoparticles by Thermal Annealing â^' Elucidating the Surface Atomic Structural and Compositional Changes. Journal of the American Chemical Society, 2017, 139, 16536-16547.	6.6	144
5	Mitigation of PEM Fuel Cell Catalyst Degradation with Porous Carbon Supports. Journal of the Electrochemical Society, 2019, 166, F198-F207.	1.3	126
6	Highly conductive and chemically stable alkaline anion exchange membranes via ROMP of trans -cyclooctene derivatives. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 9729-9734.	3.3	118
7	Editors' Choiceâ€"Connecting Fuel Cell Catalyst Nanostructure and Accessibility Using Quantitative Cryo-STEM Tomography. Journal of the Electrochemical Society, 2018, 165, F173-F180.	1.3	104
8	Revealing the atomic ordering of binary intermetallics using in situ heating techniques at multilength scales. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1974-1983.	3.3	98
9	Multicomponent Nanomaterials with Complex Networked Architectures from Orthogonal Degradation and Binary Metal Backfilling in ABC Triblock Terpolymers. Journal of the American Chemical Society, 2015, 137, 6026-6033.	6.6	70
10	Tutorial on the Visualization of Volumetric Data Using tomviz. Microscopy Today, 2018, 26, 12-17.	0.2	43
11	Nanomaterial datasets to advance tomography in scanning transmission electron microscopy. Scientific Data, 2016, 3, 160041.	2.4	42
12	The exit-wave power-cepstrum transform for scanning nanobeam electron diffraction: robust strain mapping at subnanometer resolution and subpicometer precision. Ultramicroscopy, 2020, 214, 112994.	0.8	40
13	Revealing the Nanostructure of Mesoporous Fuel Cell Catalyst Supports for Durable, High-Power Performance. Journal of the Electrochemical Society, 2021, 168, 024512.	1.3	23
14	Pinning Susceptibility: The Effect of Dilute, Quenched Disorder on Jamming. Physical Review Letters, 2016, 116, 235501.	2.9	20
15	Ultrahigh Rate Performance of a Robust Lithium Nickel Manganese Cobalt Oxide Cathode with Preferentially Orientated Li-Diffusing Channels. ACS Applied Materials & Interfaces, 2019, 11, 41178-41187.	4.0	20
16	Dimensionality-Induced Change in Topological Order in Multiferroic Oxide Superlattices. Physical Review Letters, 2021, 126, 157601.	2.9	12
17	A Simple Preparation Method for Full-Range Electron Tomography of Nanoparticles and Fine Powders. Microscopy and Microanalysis, 2017, 23, 1150-1158.	0.2	11
18	Sampling limits for electron tomography with sparsity-exploiting reconstructions. Ultramicroscopy, 2018, 186, 94-103.	0.8	11

#	Article	IF	Citations
19	Influence of Aliovalent Substitutions on Oxygen Reduction on Tantalum Oxynitrides. Journal of the Electrochemical Society, 2017, 164, F645-F650.	1.3	7
20	Advanced Platform for 3D Visualization, Reconstruction, and Segmentation with Electron Tomography. Microscopy and Microanalysis, 2016, 22, 2070-2071.	0.2	5
21	Decoupling Polarization, Crystal Tilt and Symmetry in Epitaxially-Strained Ferroelectric Thin Films Using 4D-STEM. Microscopy and Microanalysis, 2019, 25, 1938-1939.	0.2	5
22	tomviz: Providing Advanced Electron Tomography by Streamlining Alignment, Reconstruction, and 3D Visualization. Microscopy and Microanalysis, 2017, 23, 222-223.	0.2	4
23	Grains and Strains from Cepstral Analysis of 4D-STEM Nano-Diffraction Datasets. Microscopy and Microanalysis, 2018, 24, 546-547.	0.2	3
24	An â€œExtra Dimensionâ€•in Electron Tomography: Automatic Parameter Determination for Next-generation Reconstruction Methods. Microscopy and Microanalysis, 2016, 22, 556-557.	0.2	1
25	Quantifying the Atomic Ordering of Binary Intermetallic Nanocatalysts Using In Situ Heating STEM and XRD. Microscopy and Microanalysis, 2019, 25, 1488-1489.	0.2	1
26	Development of Targets for Heavy Duty Fuel Cell Vehicles with Application-Driven System Modelling. ECS Meeting Abstracts, 2020, MA2020-02, 2181-2181.	0.0	1
27	Tomography and Spectroscopy of Structure and Degradation in Carbon Electrode Materials for Energy Conversion and Storage. Microscopy and Microanalysis, 2014, 20, 504-505.	0.2	0
28	Quantitative Structural Analysis of Fuel Cell Catalysts and Carbon Supports by TEM and Cryo-STEM Tomography. Microscopy and Microanalysis, 2015, 21, 799-800.	0.2	0
29	Quantitative Information from Cryo Electron Tomography of Energy Materials. Microscopy and Microanalysis, 2016, 22, 1284-1285.	0.2	0
30	Imaging Local Polarization and Domain Boundaries with Picometer-Precision Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2016, 22, 898-899.	0.2	0
31	New Full-Range Electron Tomography Procedure for Accurate Quantification of Surfaces, Curvature, and Porosity in Energy-Related Nanomaterials. Microscopy and Microanalysis, 2017, 23, 2002-2003.	0.2	0
32	Mapping the 3D Structure of Corrugated â€œCardboardâ€•MOS2. Microscopy and Microanalysis, 2018, 24, 1584-1585.	0.2	0
33	Diffraction Mapping with a Pixelated Detector to Quantify Crystal Orientation in 3D Structures Made from 2D Materials. Microscopy and Microanalysis, 2019, 25, 1956-1957.	0.2	0
34	A Robust Basis for Grain Identification in Polycrystalline Thin Film Devices Using Cepstrum Transforms of 4D-STEM Diffraction Pattern. Microscopy and Microanalysis, 2020, 26, 1620-1622.	0.2	0
35	An Identical-Location STEM Study of the Degradation of Oer Electrocatalysts for PEM Electrolyzers. ECS Meeting Abstracts, 2021, MA2021-01, 1181-1181.	0.0	0
36	Membrane Pretreatment and Cell Conditioning for Proton Exchange Membrane Water Electrolysis. ECS Meeting Abstracts, 2021, MA2021-02, 1252-1252.	0.0	0