Paul R Shearing

List of Publications by Year
in descending order

406	16,111	15504 65	32842 100
papers	citations	h-index	g-index

417	417	417	12480
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In-operando high-speed tomography of lithium-ion batteries during thermal runaway. Nature Communications, 2015, 6, 6924.	12.8	494
2	Tuning the interlayer spacing of graphene laminate films for efficient pore utilization towards compact capacitive energy storage. Nature Energy, 2020, 5, 160-168.	39.5	381
3	Alleviation of Dendrite Formation on Zinc Anodes via Electrolyte Additives. ACS Energy Letters, 2021, 6, 395-403.	17.4	340
4	On the origin and application of the Bruggeman correlation for analysing transport phenomena in electrochemical systems. Current Opinion in Chemical Engineering, 2016, 12, 44-51.	7.8	306
5	TauFactor: An open-source application for calculating tortuosity factors from tomographic data. SoftwareX, 2016, 5, 203-210.	2.6	257
6	Characterization of the 3-dimensional microstructure of a graphite negative electrode from a Li-ion battery. Electrochemistry Communications, 2010, 12, 374-377.	4.7	256
7	3D microstructure design of lithium-ion battery electrodes assisted by X-ray nano-computed tomography and modelling. Nature Communications, 2020, 11, 2079.	12.8	217
8	Local Tortuosity Inhomogeneities in a Lithium Battery Composite Electrode. Journal of the Electrochemical Society, 2011, 158, A1393.	2.9	203
9	Rechargeable aqueous Zn-based energy storage devices. Joule, 2021, 5, 2845-2903.	24.0	201
10	Comparison of residual oil cluster size distribution, morphology and saturation in oil-wet and water-wet sandstone. Journal of Colloid and Interface Science, 2012, 375, 187-192.	9.4	198
11	Characterising thermal runaway within lithium-ion cells by inducing and monitoring internal short circuits. Energy and Environmental Science, 2017, 10, 1377-1388.	30.8	194
12	Multiâ€Scale Investigations of Îˊâ€Ni_{0.25}V₂O₅Â·nH₂O Cathode Materials in Aqueous Zincâ€Ion Batteries. Advanced Energy Materials, 2020, 10, 2000058.	19.5	173
13	Tortuosity in electrochemical devices: a review of calculation approaches. International Materials Reviews, 2018, 63, 47-67.	19.3	172
14	3D reconstruction of SOFC anodes using a focused ion beam lift-out technique. Chemical Engineering Science, 2009, 64, 3928-3933.	3.8	169
15	Image based modelling of microstructural heterogeneity in LiFePO 4 electrodes for Li-ion batteries. Journal of Power Sources, 2014, 247, 1033-1039.	7.8	162
16	Palladium alloys used as electrocatalysts for the oxygen reduction reaction. Energy and Environmental Science, 2021, 14, 2639-2669.	30.8	158
17	In situ diagnostic techniques for characterisation of polymer electrolyte membrane water electrolysers â€“ Flow visualisation and electrochemical impedance spectroscopy. International Journal of Hydrogen Energy, 2014, 39, 4468-4482.	7.1	136
18	Three-dimensional characterization of electrodeposited lithium microstructures using synchrotron X-ray phase contrast imaging. Chemical Communications, 2015, 51, 266-268.	4.1	133

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19	Resolving the Discrepancy in Tortuosity Factor Estimation for Li-Ion Battery Electrodes through Micro-Macro Modeling and Experiment. Journal of the Electrochemical Society, 2018, 165, A3403-A3426.	2.9	133
20	Investigating lithium-ion battery materials during overcharge-induced thermal runaway: an operando and multi-scale X-ray CT study. Physical Chemistry Chemical Physics, 2016, 18, 30912-30919.	2.8	130
21	Spatial dynamics of lithiation and lithium plating during high-rate operation of graphite electrodes. Energy and Environmental Science, 2020, 13, 2570-2584.	30.8	124
22	Identifying the Origins of Microstructural Defects Such as Cracking within Niâ€Rich NMC811 Cathode Particles for Lithiumâ€Ion Batteries. Advanced Energy Materials, 2020, 10, 2002655.	19.5	119
23	Multi Length Scale Microstructural Investigations of a Commercially Available Li-Ion Battery Electrode. Journal of the Electrochemical Society, 2012, 159, A1023-A1027.	2.9	118
24	Non-uniform temperature distribution in Li-ion batteries during discharge â€“ A combined thermal imaging, X-ray micro-tomography and electrochemical impedance approach. Journal of Power Sources, 2014, 252, 51-57.	7.8	108
25	4D imaging of lithium-batteries using correlative neutron and X-ray tomography with a virtual unrolling technique. Nature Communications, 2020, 11, 777.	12.8	104
26	High power nano-Nb2O5 negative electrodes for lithium-ion batteries. Electrochimica Acta, 2016, 192, 363-369.	5.2	102
27	Tracking Internal Temperature and Structural Dynamics during Nail Penetration of Lithium-Ion Cells. Journal of the Electrochemical Society, 2017, 164, A3285-A3291.	2.9	102
28	Cathode Design for Aqueous Rechargeable Multivalent Ion Batteries: Challenges and Opportunities. Advanced Functional Materials, 2021, 31, 2010445.	14.9	102
29	Investigation of lithium-ion polymer battery cell failure using X-ray computed tomography. Electrochemistry Communications, 2011, 13, 608-610.	4.7	100
30	Particle Size Polydispersity in Li-Ion Batteries. Journal of the Electrochemical Society, 2014, 161, A422-A430.	2.9	98
31	X-ray nano computerised tomography of SOFC electrodes using a focused ion beam sample-preparation technique. Journal of the European Ceramic Society, 2010, 30, 1809-1814.	5.7	97
32	Graphitic Carbon Nitride as a Catalyst Support in Fuel Cells and Electrolyzers. Electrochimica Acta, 2016, 222, 44-57.	5.2	97
33	Quantifying the anisotropy and tortuosity of permeable pathways in clay-rich mudstones using models based on X-ray tomography. Scientific Reports, 2017, 7, 14838.	3.3	97
34	Microstructural analysis of a solid oxide fuel cell anode using focused ion beam techniques coupled with electrochemical simulation. Journal of Power Sources, 2010, 195, 4804-4810.	7.8	96
35	Microstructural Evolution of Battery Electrodes During Calendering. Joule, 2020, 4, 2746-2768.	24.0	95
36	Modelling and experiments to identify high-risk failure scenarios for testing the safety of lithium-ion cells. Journal of Power Sources, 2019, 417, 29-41.	7.8	93

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37	Towards intelligent engineering of SOFC electrodes: a review of advanced microstructural characterisation techniques. International Materials Reviews, 2010, 55, 347-363.	19.3	92
38	Lithiationâ€Induced Dilation Mapping in a Lithiumâ€Ion Battery Electrode by 3D Xâ€Ray Microscopy and Digital Volume Correlation. Advanced Energy Materials, 2014, 4, 1300506.	19.5	89
39	Identifying the Cause of Rupture of Liâ€Ion Batteries during Thermal Runaway. Advanced Science, 2018, 5, 1700369.	11.2	89
40	Free-standing supercapacitors from Kraft lignin nanofibers with remarkable volumetric energy density. Chemical Science, 2019, 10, 2980-2988.	7.4	88
41	Carbon monoxide poisoning and mitigation strategies for polymer electrolyte membrane fuel cells â€“ A review. Progress in Energy and Combustion Science, 2020, 79, 100842.	31.2	87
42	High power TiO2 and high capacity Sn-doped TiO2 nanomaterial anodes for lithium-ion batteries. Journal of Power Sources, 2015, 294, 94-102.	7.8	86
43	Engineering Catalyst Layers for Nextâ€Generation Polymer Electrolyte Fuel Cells: A Review of Design, Materials, and Methods. Advanced Energy Materials, 2021, 11, 2101025.	19.5	85
44	Highly pseudocapacitive Nb-doped TiO₂ high power anodes for lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 22908-22914.	10.3	84
45	Visualizing the Carbon Binder Phase of Battery Electrodes in Three Dimensions. ACS Applied Energy Materials, 2018, 1, 3702-3710.	5.1	83
46	Two-phase flow behaviour and performance of polymer electrolyte membrane electrolysers: Electrochemical and optical characterisation. International Journal of Hydrogen Energy, 2018, 43, 15659-15672.	7.1	81
47	Developments in X-ray tomography characterization for electrochemical devices. Materials Today, 2019, 31, 69-85.	14.2	79
48	Mass transfer in fibrous media with varying anisotropy for flow battery electrodes: Direct numerical simulations with 3D X-ray computed tomography. Chemical Engineering Science, 2019, 196, 104-115.	3.8	79
49	Three-dimensional high resolution X-ray imaging and quantification of lithium ion battery mesocarbon microbead anodes. Journal of Power Sources, 2014, 248, 1014-1020.	7.8	78
50	Effect of gas diffusion layer properties on water distribution across air-cooled, open-cathode polymer electrolyte fuel cells: A combined ex-situ X-ray tomography and in-operando neutron imaging study. Electrochimica Acta, 2016, 211, 478-487.	5.2	78
51	Using Synchrotron X-Ray Nano-CT to Characterize SOFC Electrode Microstructures in Three-Dimensions at Operating Temperature. Electrochemical and Solid-State Letters, 2011, 14, B117.	2.2	76
52	Mechanisms and effects of mechanical compression and dimensional change in polymer electrolyte fuel cells â€“ A review. Journal of Power Sources, 2015, 284, 305-320.	7.8	76
53	Investigation of Hot Pressed Polymer Electrolyte Fuel Cell Assemblies via X-ray Computed Tomography. Electrochimica Acta, 2017, 242, 125-136.	5.2	74
54	Visualization of liquid water in a lung-inspired flow-field based polymer electrolyte membrane fuel cell via neutron radiography. Energy, 2019, 170, 14-21.	8.8	74

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55	2021 roadmap on lithium sulfur batteries. JPhys Energy, 2021, 3, 031501.	5.3	74
56	2020 roadmap on solid-state batteries. JPhys Energy, 2020, 2, 032008.	5.3	74
57	The application of phase contrast X-ray techniques for imaging Li-ion battery electrodes. Nuclear Instruments & Methods in Physics Research B, 2014, 324, 118-123.	1.4	73
58	High power Nb-doped LiFePO4 Li-ion battery cathodes; pilot-scale synthesis and electrochemical properties. Journal of Power Sources, 2016, 326, 476-481.	7.8	73
59	Spatially Resolving Lithiation in Siliconâ€“Graphite Composite Electrodes via in Situ High-Energy X-ray Diffraction Computed Tomography. Nano Letters, 2019, 19, 3811-3820.	9.1	73
60	Spatial quantification of dynamic inter and intra particle crystallographic heterogeneities within lithium ion electrodes. Nature Communications, 2020, 11, 631.	12.8	73
61	Analysis of triple phase contact in Niâ€“YSZ microstructures using non-destructive X-ray tomography with synchrotron radiation. Electrochemistry Communications, 2010, 12, 1021-1024.	4.7	72
62	Emerging X-ray imaging technologies for energy materials. Materials Today, 2020, 34, 132-147.	14.2	70
63	A Review of Lithiumâ€ion Battery Electrode Drying: Mechanisms and Metrology. Advanced Energy Materials, 2022, 12, .	19.5	70
64	X-ray micro-tomography as a diagnostic tool for the electrode degradation in vanadium redox flow batteries. Electrochemistry Communications, 2014, 48, 155-159.	4.7	69
65	Combined current and temperature mapping in an air-cooled, open-cathode polymer electrolyte fuel cell under steady-state and dynamic conditions. Journal of Power Sources, 2015, 297, 315-322.	7.8	69
66	Exploring microstructural changes associated with oxidation in Niâ€“YSZ SOFC electrodes using high resolution X-ray computed tomography. Solid State Ionics, 2012, 216, 69-72.	2.7	68
67	Effect of temperature uncertainty on polymer electrolyte fuel cell performance. International Journal of Hydrogen Energy, 2014, 39, 1439-1448.	7.1	67
68	The effect of felt compression on the performance and pressure drop of all-vanadium redox flow batteries. Journal of Energy Storage, 2016, 8, 91-98.	8.1	67
69	Current density mapping and optical flow visualisation of a polymer electrolyte membrane water electrolyser. Journal of Power Sources, 2014, 265, 97-103.	7.8	66
70	Quantifying Bulk Electrode Strain and Material Displacement within Lithium Batteries via Highâ€Speed Operando Tomography and Digital Volume Correlation. Advanced Science, 2016, 3, 1500332.	11.2	66
71	Guiding the Design of Heterogeneous Electrode Microstructures for Liâ€ion Batteries: Microscopic Imaging, Predictive Modeling, and Machine Learning. Advanced Energy Materials, 2021, 11, 2003908.	19.5	66
72	Operando Electrochemical Atomic Force Microscopy of Solidâ€“Electrolyte Interphase Formation on Graphite Anodes: The Evolution of SEI Morphology and Mechanical Properties. ACS Applied Materials & Interfaces, 2020, 12, 35132-35141.	8.0	65

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73	Real time chemical imaging of a working catalytic membrane reactor during oxidative coupling of methane. Chemical Communications, 2015, 51, 12752-12755.	4.1	63
74	Characterising the structural properties of polymer separators for lithium-ion batteries in 3D using phase contrast X-ray microscopy. Journal of Power Sources, 2016, 333, 184-192.	7.8	63
75	Pilot-scale continuous synthesis of a vanadium-doped LiFePO4/C nanocomposite high-rate cathodes for lithium-ion batteries. Journal of Power Sources, 2016, 302, 410-418.	7.8	63
76	Exploring 3D microstructural evolution in Li-Sulfur battery electrodes using in-situ X-ray tomography. Scientific Reports, 2016, 6, 35291.	3.3	61
77	Defected vanadium bronzes as superb cathodes in aqueous zinc-ion batteries. Nanoscale, 2020, 12, 20638-20648.	5.6	61
78	Mass transport in PEM water electrolysers: A review. International Journal of Hydrogen Energy, 2022, 47, 30-56.	7.1	60
79	The application of hierarchical structures in energy devices: new insights into the design of solid oxide fuel cells with enhanced mass transport. Energy and Environmental Science, 2018, 11, 2390-2403.	30.8	59
80	Spatially resolved ultrasound diagnostics of Li-ion battery electrodes. Physical Chemistry Chemical Physics, 2019, 21, 6354-6361.	2.8	59
81	Comparison of threeâ€dimensional analysis and stereological techniques for quantifying lithiumâ€ion battery electrode microstructures. Journal of Microscopy, 2016, 263, 280-292.	1.8	57
82	Optimisation of air cooled, open-cathode fuel cells: Current of lowest resistance and electro-thermal performance mapping. Journal of Power Sources, 2015, 291, 261-269.	7.8	56
83	Design of next-generation ceramic fuel cells and real-time characterization with synchrotron X-ray diffraction computed tomography. Nature Communications, 2019, 10, 1497.	12.8	56
84	Elucidating the Sodiation Mechanism in Hard Carbon by Operando Raman Spectroscopy. ACS Applied Energy Materials, 2020, 3, 7474-7484.	5.1	56
85	Electrospinning as a route to advanced carbon fibre materials for selected low-temperature electrochemical devices: A review. Journal of Energy Chemistry, 2021, 59, 492-529.	12.9	56
86	Opportunities for the State-of-the-Art Production of LIB Electrodesâ€”A Review. Energies, 2021, 14, 1406.	3.1	55
87	Laserâ€preparation of geometrically optimised samples for Xâ€ray nanoâ€CT. Journal of Microscopy, 2017, 267, 384-396.	1.8	54
88	Microstructural degradation of silicon electrodes during lithiation observed via operando X-ray tomographic imaging. Journal of Power Sources, 2017, 342, 904-912.	7.8	54
89	ZIF-8-Derived Hollow Carbon for Efficient Adsorption of Antibiotics. Nanomaterials, 2019, 9, 117.	4.1	54
90	Temperature, Ageing and Thermal Management of Lithium-Ion Batteries. Energies, 2021, 14, 1248.	3.1	54

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91	Tracking lithium penetration in solid electrolytes in 3D by in-situ synchrotron X-ray computed tomography. Nano Energy, 2021, 82, 105744.	16.0	54
92	Design of Scalable, Next-Generation Thick Electrodes: Opportunities and Challenges. ACS Nano, 2021, 15, 18624-18632.	14.6	54
93	A study of the effect of compression on the performance ofÂpolymer electrolyte fuel cells using electrochemical impedance spectroscopy and dimensional change analysis. International Journal of Hydrogen Energy, 2013, 38, 7414-7422.	7.1	53
94	4D analysis of the microstructural evolution of Si-based electrodes during lithiation: Time-lapse X-ray imaging and digital volume correlation. Journal of Power Sources, 2016, 320, 196-203.	7.8	53
95	Correlation between triple phase boundary and the microstructure of Solid Oxide Fuel Cell anodes: The role of composition, porosity and Ni densification. Journal of Power Sources, 2017, 365, 210-219.	7.8	53
96	Synergistic relationship between the three-dimensional nanostructure and electrochemical performance in biocarbon supercapacitor electrode materials. Sustainable Energy and Fuels, 2018, 2, 772-785.	4.9	53
97	Effect of serpentine flow-field design on the water management of polymer electrolyte fuel cells: An in-operando neutron radiography study. Journal of Power Sources, 2018, 399, 254-263.	7.8	53
98	Coreâ€“shell TiO₂@C ultralong nanotubes with enhanced adsorption of antibiotics. Journal of Materials Chemistry A, 2019, 7, 19081-19086.	10.3	53
99	High-power nitrided TiO2 carbon felt as the negative electrode for all-vanadium redox flow batteries. Carbon, 2019, 148, 91-104.	10.3	51
100	Stochastic simulation model for the 3D morphology of composite materials in Liâ€“ion batteries. Computational Materials Science, 2011, 50, 3365-3376.	3.0	50
101	Multi-scale 3D investigations of a commercial 18650 Li-ion battery with correlative electron- and X-ray microscopy. Journal of Power Sources, 2017, 357, 77-86.	7.8	50
102	A universal pH range and a highly efficient Mo₂C-based electrocatalyst for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2020, 8, 19879-19886.	10.3	50
103	Four-Dimensional Studies of Morphology Evolution in Lithiumâ€“Sulfur Batteries. ACS Applied Energy Materials, 2018, 1, 5090-5100.	5.1	49
104	Co-gasification of beech-wood and polyethylene in a fluidized-bed reactor. Fuel Processing Technology, 2019, 190, 29-37.	7.2	49
105	3D morphological evolution of Li-ion battery negative electrode LiVO2 during oxidation using X-ray nano-tomography. Electrochemistry Communications, 2012, 21, 58-61.	4.7	48
106	Multi-length scale microstructural design of lithium-ion battery electrodes for improved discharge rate performance. Energy and Environmental Science, 2021, 14, 5929-5946.	30.8	48
107	Modelling the effects of measured anode triple-phase boundary densities on the performance of micro-tubular hollow fiber SOFCs. Solid State Ionics, 2011, 192, 494-500.	2.7	47
108	The Hydro-electro-thermal Performance of Air-cooled, Open-cathode Polymer Electrolyte Fuel Cells: Combined Localised Current Density, Temperature and Water Mapping. Electrochimica Acta, 2015, 180, 307-315.	5.2	47

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109	Investigating the evolving microstructure of lithium metal electrodes in 3D using X-ray computed tomography. Physical Chemistry Chemical Physics, 2017, 19, 22111-22120.	2.8	47
110	Cracking predictions of lithium-ion battery electrodes by X-ray computed tomography and modelling. Journal of Power Sources, 2022, 526, 231119.	7.8	47
111	Hydrogen Oxidation on PdIr/C Catalysts in Alkaline Media. Journal of the Electrochemical Society, 2014, 161, F458-F463.	2.9	46
112	VO2 nano-sheet negative electrodes for lithium-ion batteries. Electrochemistry Communications, 2016, 64, 56-60.	4.7	46
113	The effect of non-uniform compression and flow-field arrangements on membrane electrode assemblies - X-ray computed tomography characterisation and effective parameter determination. Journal of Power Sources, 2019, 426, 97-110.	7.8	46
114	A study of the effect of water management and electrode flooding onÂthe dimensional change of polymer electrolyte fuel cells. Journal of Power Sources, 2013, 242, 70-77.	7.8	45
115	System-level electro-thermal optimisation of air-cooled open-cathode polymer electrolyte fuel cells: Air blower parasitic load and schemes for dynamic operation. International Journal of Hydrogen Energy, 2015, 40, 16760-16766.	7.1	45
116	What Happens Inside a Fuel Cell? Developing an Experimental Functional Map of Fuel Cell Performance. ChemPhysChem, 2010, 11, 2714-2731.	2.1	44
117	The use of contrast enhancement techniques in X-ray imaging of lithiumâ€“ion battery electrodes. Chemical Engineering Science, 2016, 154, 27-33.	3.8	43
118	Novel laboratory investigation of huff-n-puff gas injection for shale oils under realistic reservoir conditions. Fuel, 2021, 284, 118950.	6.4	43
119	In situ compression and X-ray computed tomography of flow battery electrodes. Journal of Energy Chemistry, 2018, 27, 1353-1361.	12.9	42
120	New insights into the electrochemical behaviour of porous carbon electrodes for supercapacitors. Journal of Energy Storage, 2018, 19, 337-347.	8.1	42
121	Highâ€Ðensity Ligninâ€Ðerived Carbon Nanofiber Supercapacitors with Enhanced Volumetric Energy Density. Advanced Science, 2021, 8, e2100016.	11.2	42
122	Correlative study of microstructure and performance for porous transport layers in polymer electrolyte membrane water electrolysers by X-ray computed tomography and electrochemical characterization. International Journal of Hydrogen Energy, 2019, 44, 19519-19532.	7.1	41
123	Characterization of water management in metal foam flow-field based polymer electrolyte fuel cells using in-operando neutron radiography. International Journal of Hydrogen Energy, 2020, 45, 2195-2205.	7.1	41
124	High-Performance Zincâ€“Air Batteries with Scalable Metalâ€“Organic Frameworks and Platinum Carbon Black Bifunctional Catalysts. ACS Applied Materials & Interfaces, 2020, 12, 42696-42703.	8.0	41
125	Mass transport in polymer electrolyte membrane water electrolyser liquid-gas diffusion layers: A combined neutron imaging and X-ray computed tomography study. Journal of Power Sources, 2020, 455, 227968.	7.8	41
126	Superior Multifunctional Activity of Nanoporous Carbons with Widely Tunable Porosity: Enhanced Storage Capacities for Carbonâ€Ðioxide, Hydrogen, Water, and Electric Charge. Advanced Energy Materials, 2020, 10, 1903649.	19.5	41

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127	Dendrite suppression by anode polishing in zinc-ion batteries. Journal of Materials Chemistry A, 2021, 9, 15355-15362.	10.3	41
128	Characterizing Batteries by In Situ Electrochemical Atomic Force Microscopy: A Critical Review. Advanced Energy Materials, 2021, 11, 2101518.	19.5	40
129	Development of open-cathode polymer electrolyte fuel cells using printed circuit board flow-field plates: Flow geometry characterisation. International Journal of Hydrogen Energy, 2014, 39, 18326-18336.	7.1	39
130	Crack detection in lithium-ion cells using machine learning. Computational Materials Science, 2017, 136, 297-305.	3.0	39
131	Investigation of cycling-induced microstructural degradation in silicon-based electrodes in lithium-ion batteries using X-ray nanotomography. Electrochimica Acta, 2017, 253, 85-92.	5.2	39
132	An Advanced Microstructural and Electrochemical Datasheet on 18650 Li-Ion Batteries with Nickel-Rich NMC811 Cathodes and Graphite-Silicon Anodes. Journal of the Electrochemical Society, 2020, 167, 140530.	2.9	39
133	Highly conductive low nickel content nano-composite dense cermets from nano-powders made via a continuous hydrothermal synthesis route. Solid State Ionics, 2010, 181, 827-834.	2.7	38
134	In Situ X-Ray Spectroscopy and Imaging of Battery Materials. Electrochemical Society Interface, 2011, 20, 43-47.	0.4	38
135	A Dilatometric Study of Graphite Electrodes during Cycling with X-ray Computed Tomography. Journal of the Electrochemical Society, 2021, 168, 010507.	2.9	38
136	High capacity nanocomposite Fe3O4/Fe anodes for Li-ion batteries. Journal of Power Sources, 2015, 291, 102-107.	7.8	37
137	Nitrogen Blanketing and Hydrogen Starvation in Dead-Ended-Anode Polymer Electrolyte Fuel Cells Revealed by Hydro-Electro-Thermal Analysis. Electrochimica Acta, 2016, 203, 198-205.	5.2	37
138	4D nano-tomography of electrochemical energy devices using lab-based X-ray imaging. Nano Energy, 2018, 47, 556-565.	16.0	37
139	Capillaries for water management in polymer electrolyte membrane fuel cells. International Journal of Hydrogen Energy, 2018, 43, 21949-21958.	7.1	37
140	Examining the Cycling Behaviour of Li-Ion Batteries Using Ultrasonic Time-of-Flight Measurements. Journal of Power Sources, 2019, 444, 227318.	7.8	37
141	Virtual unrolling of spirally-wound lithium-ion cells for correlative degradation studies and predictive fault detection. Sustainable Energy and Fuels, 2019, 3, 2972-2976.	4.9	37
142	CuCo₂S₄ nanocrystals as a nanoplatform for photothermal therapy of arterial inflammation. Nanoscale, 2019, 11, 9733-9742.	5.6	37
143	Lignin-derived electrospun freestanding carbons as alternative electrodes for redox flow batteries. Carbon, 2020, 157, 847-856.	10.3	37
144	Using In-Situ Laboratory and Synchrotron-Based X-ray Diffraction for Lithium-Ion Batteries Characterization: A Review on Recent Developments. Condensed Matter, 2020, 5, 75.	1.8	37

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145	Quantitative Relationships Between Pore Tortuosity, Pore Topology, and Solid Particle Morphology Using a Novel Discrete Particle Size Algorithm. Journal of the Electrochemical Society, 2020, 167, 100513.	2.9	37
146	Identifying Defects in Li-Ion Cells Using Ultrasound Acoustic Measurements. Journal of the Electrochemical Society, 2020, 167, 120530.	2.9	37
147	Communicationâ€"Prediction of Thermal Issues for Larger Format 4680 Cylindrical Cells and Their Mitigation with Enhanced Current Collection. Journal of the Electrochemical Society, 2020, 167, 160544.	2.9	37
148	Reduction Dynamics of Doped Ceria, Nickel Oxide, and Cermet Composites Probed Using In Situ Raman Spectroscopy. Advanced Science, 2016, 3, 1500146.	11.2	36
149	Characterisation of the diffusion properties of metal foam hybrid flow-fields for fuel cells using optical flow visualisation and X-ray computed tomography. Journal of Power Sources, 2018, 395, 171-178.	7.8	36
150	Correlating electrochemical impedance with hierarchical structure for porous carbon-based supercapacitors using a truncated transmission line model. Electrochimica Acta, 2018, 284, 597-608.	5.2	36
151	Synergistic storage of lithium ions in defective anatase/rutile TiO2 for high-rate batteries. Energy Storage Materials, 2019, 22, 441-449.	18.0	36
152	Design of a miniature flow cell forin situx-ray imaging of redox flow batteries. Journal Physics D: Applied Physics, 2016, 49, 434002.	2.8	35
153	Electrochemical pressure impedance spectroscopy applied to the study of polymer electrolyte fuel cells. Electrochemistry Communications, 2017, 75, 60-63.	4.7	35
154	Using electrochemical impedance spectroscopy to compensate for errors when measuring polarisation curves during three-electrode measurements of solid oxide fuel cell electrodes. Electrochimica Acta, 2008, 53, 7614-7621.	5.2	34
155	Study of water accumulation dynamics in the channels of an open-cathode fuel cell through electro-thermal characterisation and droplet visualisation. International Journal of Hydrogen Energy, 2015, 40, 16786-16796.	7.1	34
156	Detection of Internal Defects in Lithium-Ion Batteries Using Lock-in Thermography. ECS Electrochemistry Letters, 2015, 4, A106-A109.	1.9	34
157	A Structure and Durability Comparison of Membrane Electrode Assembly Fabrication Methods: Self-Assembled Versus Hot-Pressed. Journal of the Electrochemical Society, 2018, 165, F3045-F3052.	2.9	34
158	Sizeâ€Related Electrochemical Performance in Active Carbon Nanostructures: A MOFsâ€Derived Carbons Case Study. Advanced Science, 2019, 6, 1901517.	11.2	34
159	Porous Metalâ€"Organic Frameworks for Enhanced Performance Silicon Anodes in Lithium-Ion Batteries. Chemistry of Materials, 2019, 31, 4156-4165.	6.7	34
160	X-ray tomography and modelling study on the mechanical behaviour and performance of metal foam flow-fields for polymer electrolyte fuel cells. International Journal of Hydrogen Energy, 2019, 44, 7583-7595.	7.1	34
161	Investigating the effect of thermal gradients on stress in solid oxide fuel cell anodes using combined synchrotron radiation and thermal imaging. Journal of Power Sources, 2015, 288, 473-481.	7.8	33
162	Effect of Microstructure of Porous Transport Layer on Performance in Polymer Electrolyte Membrane Water Electrolyser. Energy Procedia, 2018, 151, 111-119.	1.8	33

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163	Evolution of Electrochemical Cell Designs for In-Situ and Operando 3D Characterization. Materials, 2018, 11, 2157.	2.9	33
164	MoS2/NiS core-shell structures for improved electrocatalytic process of hydrogen evolution. Journal of Power Sources, 2020, 472, 228497.	7.8	33
165	Thermo-chemical conversion of carbonaceous wastes for CNT and hydrogen production: a review. Sustainable Energy and Fuels, 2021, 5, 4173-4208.	4.9	33
166	Comparative study of energy management systems for a hybrid fuel cell electric vehicle - A novel mutative fuzzy logic controller to prolong fuel cell lifetime. International Journal of Hydrogen Energy, 2022, 47, 24042-24058.	7.1	33
167	Stress analysis of solid oxide fuel cell anode microstructure reconstructed from focused ion beam tomography. Journal of Power Sources, 2011, 196, 9018-9021.	7.8	32
168	3Dâ€Printed Structural Pseudocapacitors. Advanced Materials Technologies, 2016, 1, 1600167.	5.8	32
169	Measurement of water uptake in thin-film Nafion and anion alkaline exchange membranes using the quartz crystal microbalance. Journal of Membrane Science, 2016, 497, 229-238.	8.2	32
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