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	Strategic comparison of membrane-assisted and membrane-less water electrolyzers and their potential application in direct seawater splitting (DSS). Green Energy and Environment, 2023, 8, 989-1005.	8.7	15
2	Characteristics of a gold-doped electrode for application in high-performance lithium-sulfur battery. Journal of Energy Chemistry, 2022, 64, 116-128.	12.9	21
3	Determining the electrochemical transport parameters of sodium-ions in hard carbon composite electrodes. Electrochimica Acta, 2022, 401, 139481.	5.2	14
4	In-situ X-ray tomographic imaging study of gas and structural evolution in a commercial Li-ion pouch cell. Journal of Power Sources, 2022, 520, 230818.	7.8	17
5	Mass transport in PEM water electrolysers: A review. International Journal of Hydrogen Energy, 2022, 47, 30-56.	7.1	60
6	A Review of Lithiumâ€Ion Battery Electrode Drying: Mechanisms and Metrology. Advanced Energy Materials, 2022, 12, .	19.5	70
7	The performance and durability of high-temperature proton exchange membrane fuel cells enhanced by single-layer graphene. Nano Energy, 2022, 93, 106829.	16.0	25
8	Neutron imaging of lithium batteries. Joule, 2022, 6, 35-52.	24.0	29
9	In-Situ Li-Ion Pouch Cell Diagnostics Utilising Plasmonic Based Optical Fibre Sensors. Sensors, 2022, 22, 738.	3.8	6
10	Spatially Resolved Operando Synchrotron-Based X-Ray Diffraction Measurements of Ni-Rich Cathodes for Li-Ion Batteries. Frontiers in Chemical Engineering, 2022, 3, .	2.7	9
11	Study of Tire Pyrolysis Oil Model Compound Structure on Carbon Nanomaterial Production. ACS Sustainable Chemistry and Engineering, 2022, 10, 800-809.	6.7	7
12	Thermal Runaway of Li-Ion Cells: How Internal Dynamics, Mass Ejection, and Heat Vary with Cell Geometry and Abuse Type. Journal of the Electrochemical Society, 2022, 169, 020526.	2.9	11
13	The effect of non-uniform compression on the performance of polymer electrolyte fuel cells. Journal of Power Sources, 2022, 521, 230973.	7.8	10
14	The effect of cell geometry and trigger method on the risks associated with thermal runaway of lithium-ion batteries. Journal of Power Sources, 2022, 524, 230645.	7.8	28
15	An open-source platform for 3D-printed redox flow battery test cells. Sustainable Energy and Fuels, 2022, 6, 1529-1540.	4.9	7
16	Dynamic acoustic emission analysis of polymer electrolyte membrane fuel cells. Energy Advances, 2022, 1, 258-268.	3.3	2
17	liionpack: A Python package for simulating packs of batteries with PyBaMM. Journal of Open Source Software, 2022, 7, 4051.	4.6	3
18	High-speed 4D neutron computed tomography for quantifying water dynamics in polymer electrolyte fuel cells. Nature Communications, 2022, 13, 1616.	12.8	10

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19	Disentangling water, ion and polymer dynamics in an anion exchange membrane. Nature Materials, 2022, 21, 555-563.	27.5	32
20	Motion-enhancement assisted digital image correlation of lithium-ion batteries during lithiation. Journal of Power Sources, 2022, 527, 231150.	7.8	4
21	Cracking predictions of lithium-ion battery electrodes by X-ray computed tomography and modelling. Journal of Power Sources, 2022, 526, 231119.	7.8	47
22	Investigation of the Effect of Temperature on Lithiumâ€Sulfur Cell Cycle Life Performance Using System Identification and Xâ€Ray Tomography. Batteries and Supercaps, 2022, 5, .	4.7	5
23	Precisely visit the performance modulation of functionalized separator in Li-S batteries via consecutive multiscale analysis. Energy Storage Materials, 2022, 49, 85-92.	18.0	7
24	Effective Ultrasound Acoustic Measurement to Monitor the Lithium-Ion Battery Electrode Drying Process with Various Coating Thicknesses. ACS Applied Materials & Interfaces, 2022, 14, 2092-2101.	8.0	4
25	In situ x-ray computed tomography of zincâ€“air primary cells during discharge: correlating discharge rate to anode morphology. JPhys Materials, 2022, 5, 014001.	4.2	4
26	Applications of advanced metrology for understanding the effects of drying temperature in the lithium-ion battery electrode manufacturing process. Journal of Materials Chemistry A, 2022, 10, 10593-10603.	10.3	10
27	Operando Ultrasonic Monitoring of Lithium-Ion Battery Temperature and Behaviour at Different Cycling Rates and under Drive Cycle Conditions. Journal of the Electrochemical Society, 2022, 169, 040563.	2.9	16
28	Metabolically diverse primordial microbial communities in Earthâ€™s oldest seafloor-hydrothermal jasper. Science Advances, 2022, 8, eabm2296.	10.3	24
29	MOF-based nanomaterials for zinc-based battery cathodes. , 2022, , 315-340.		0
30	Asphericity Can Cause Nonuniform Lithium Intercalation in Battery Active Particles. ACS Energy Letters, 2022, 7, 1871-1879.	17.4	21
31	Fascicular Organisation and Neuroanatomy of the Porcine and Human Vagus Nerves: Allowing for Spatially Selective Vagus Nerve Stimulation. FASEB Journal, 2022, 36, .	0.5	1
32	Ultra high-resolution biomechanics suggest that substructures within insect mechanosensors decisively affect their sensitivity. Journal of the Royal Society Interface, 2022, 19, 20220102.	3.4	9
33	The Time-Dependent Role of Bisphosphonates on Atherosclerotic Plaque Calcification. Journal of Cardiovascular Development and Disease, 2022, 9, 168.	1.6	3
34	A greyscale erosion algorithm for tomography (GREAT) to rapidly detect battery particle defects. Npj Materials Degradation, 2022, 6, .	5.8	3
35	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
36	Cover Feature: Investigation of the Effect of Temperature on Lithiumâ€Sulfur Cell Cycle Life Performance Using System Identification and Xâ€Ray Tomography (Batteries & Supercaps 8/2022). Batteries and Supercaps, 2022, 5, .	4.7	0

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37	Correlative electrochemical acoustic time-of-flight spectroscopy and X-ray imaging to monitor the performance of single-crystal and polycrystalline NMC811/Gr lithium-ion batteries. Journal of Power Sources, 2022, 542, 231775.	7.8	5
38	Exploring the influence of porosity and thickness on lithium-ion battery electrodes using an image-based model. Journal of Power Sources, 2022, 542, 231779.	7.8	14
39	Synthesis of layered silicon-graphene hetero-structures by wet jet milling for high capacity anodes in Li-ion batteries. 2D Materials, 2021, 8, 015012.	4.4	12
40	Controlling molten carbonate distribution in dual-phase molten salt-ceramic membranes to increase carbon dioxide permeation rates. Journal of Membrane Science, 2021, 617, 118640.	8.2	12
41	Novel laboratory investigation of huff-n-puff gas injection for shale oils under realistic reservoir conditions. Fuel, 2021, 284, 118950.	6.4	43
42	Self-activated cathode substrates in rechargeable zincâ€“air batteries. Energy Storage Materials, 2021, 35, 530-537.	18.0	11
43	3D Imaging of Lithium Protrusions in Solidâ€State Lithium Batteries using Xâ€Ray Computed Tomography. Advanced Functional Materials, 2021, 31, 2007564.	14.9	31
44	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
45	Fabrication of high surface area ribbon electrodes for use in redox flow batteries via coaxial electrospinning. Journal of Energy Storage, 2021, 33, 102079.	8.1	21
46	Effect of reactant gas flow orientation on the current and temperature distribution in self-heating polymer electrolyte fuel cells. International Journal of Hydrogen Energy, 2021, 46, 7502-7514.	7.1	11
47	The role of fluid chemistry on permeability evolution in granite: Applications to natural and anthropogenic systems. Earth and Planetary Science Letters, 2021, 553, 116641.	4.4	9
48	Operando Bragg Coherent Diffraction Imaging of LiNi_{0.8}Mn_{0.1}Co_{0.1}O₂ Primary Particles within Commercially Printed NMC811 Electrode Sheets. ACS Nano, 2021, 15, 1321-1330.	14.6	23
49	Hard Carbon Composite Electrodes for Sodiumâ€Ion Batteries with Nanoâ€Zeolite and Carbon Black Additives. Batteries and Supercaps, 2021, 4, 163-172.	4.7	17
50	Towards a mechanistic understanding of particle shrinkage during biomass pyrolysis via synchrotron X-ray microtomography and in-situ radiography. Scientific Reports, 2021, 11, 2656.	3.3	10
51	Alleviation of Dendrite Formation on Zinc Anodes via Electrolyte Additives. ACS Energy Letters, 2021, 6, 395-403.	17.4	340
52	Thermo-chemical conversion of carbonaceous wastes for CNT and hydrogen production: a review. Sustainable Energy and Fuels, 2021, 5, 4173-4208.	4.9	33
53	Palladium alloys used as electrocatalysts for the oxygen reduction reaction. Energy and Environmental Science, 2021, 14, 2639-2669.	30.8	158
54	A Dilatometric Study of Graphite Electrodes during Cycling with X-ray Computed Tomography. Journal of the Electrochemical Society, 2021, 168, 010507.	2.9	38

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55	3D X-Ray Characterization of Energy Storage and Conversion Devices. , 2021, , 513-544.		0
56	The prismatic surface cell cooling coefficient: A novel cell design optimisation tool & thermal parameterization method for a 3D discretised electro-thermal equivalent-circuit model. ETransportation, 2021, 7, 100099.	14.8	15
57	Multi-length scale characterization of compression on metal foam flow-field based fuel cells using X-ray computed tomography and neutron radiography. Energy Conversion and Management, 2021, 230, 113785.	9.2	19
58	Temperature, Ageing and Thermal Management of Lithium-Ion Batteries. Energies, 2021, 14, 1248.	3.1	54
59	Porous 3D graphene aerogel co-doped with nitrogen and sulfur for high-performance supercapacitors. Nanotechnology, 2021, 32, 195405.	2.6	12
60	Current Imbalance in Parallel Battery Strings Measured Using a Hallâ€Effect Sensor Array. Energy Technology, 2021, 9, 2001014.	3.8	9
61	Acoustic time-of-flight imaging of polymer electrolyte membrane water electrolysers to probe internal structure and flow characteristics. International Journal of Hydrogen Energy, 2021, 46, 11523-11535.	7.1	5
62	Multivalent Ion Batteries: Cathode Design for Aqueous Rechargeable Multivalent Ion Batteries: Challenges and Opportunities (Adv. Funct. Mater. 13/2021). Advanced Functional Materials, 2021, 31, 2170089.	14.9	1
63	Prevention of lithium-ion battery thermal runaway using polymer-substrate current collectors. Cell Reports Physical Science, 2021, 2, 100360.	5.6	22
64	A Multiscale Xâ€Ray Tomography Study of the Cycledâ€Induced Degradation in Magnesiumâ€“Sulfur Batteries. Small Methods, 2021, 5, e2001193.	8.6	10
65	2021 roadmap on lithium sulfur batteries. JPhys Energy, 2021, 3, 031501.	5.3	74
66	Opportunities for the State-of-the-Art Production of LIB Electrodesâ€”A Review. Energies, 2021, 14, 1406.	3.1	55
67	Tracking lithium penetration in solid electrolytes in 3D by in-situ synchrotron X-ray computed tomography. Nano Energy, 2021, 82, 105744.	16.0	54
68	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
69	Optimisation of Mass Transport Parameters in a Polymer Electrolyte Membrane Electrolyser Using Factorial Design-of-Experiment. Frontiers in Energy Research, 2021, 9, .	2.3	6
70	Developments in Dilatometry for Characterisation of Electrochemical Devices. Batteries and Supercaps, 2021, 4, 1378-1396.	4.7	12
71	Highâ€Density Ligninâ€Derived Carbon Nanofiber Supercapacitors with Enhanced Volumetric Energy Density. Advanced Science, 2021, 8, e2100016.	11.2	42
72	Evaluation and realization of safer Mg-S battery: The decisive role of the electrolyte. Nano Energy, 2021, 83, 105832.	16.0	10

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73	High-resolution imaging of depth filter structures using X-ray computed tomography. Journal of Materials Science, 2021, 56, 15313.	3.7	1
74	A novel fuel cell design for operando energy-dispersive x-ray absorption measurements. Journal of Physics Condensed Matter, 2021, 33, 314002.	1.8	6
75	Microstructure analysis and image-based modelling of face masks for COVID-19 virus protection. Communications Materials, 2021, 2, .	6.9	30
76	Recent advances in acoustic diagnostics for electrochemical power systems. JPhys Energy, 2021, 3, 032011.	5.3	20
77	High CO2 permeability in supported molten-salt membranes with highly dense and aligned pores produced by directional solidification. Journal of Membrane Science, 2021, 630, 119057.	8.2	8
78	In Situ Ultrasound Acoustic Measurement of the Lithium-Ion Battery Electrode Drying Process. ACS Applied Materials & Interfaces, 2021, 13, 36605-36620.	8.0	18
79	Influence of Flow Field Design on Zinc Deposition and Performance in a Zinc-Iodide Flow Battery. ACS Applied Materials & Interfaces, 2021, 13, 41563-41572.	8.0	18
80	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
81	Degradation of Layered Oxide Cathode in a Sodium Battery: A Detailed Investigation by Xâ€Ray Tomography at the Nanoscale. Small Methods, 2021, 5, e2100596.	8.6	9
82	Characterizing Batteries by In Situ Electrochemical Atomic Force Microscopy: A Critical Review. Advanced Energy Materials, 2021, 11, 2101518.	19.5	40
83	Scalable Sacrificial Templating to Increase Porosity and Platinum Utilisation in Graphene-Based Polymer Electrolyte Fuel Cell Electrodes. Nanomaterials, 2021, 11, 2530.	4.1	3
84	Recovery of cobalt from lithium-ion batteries using fluidised cathode molten salt electrolysis. Electrochimica Acta, 2021, 391, 138846.	5.2	10
85	Lab-based X-ray micro-computed tomography coupled with machine-learning segmentation to investigate phosphoric acid leaching in high-temperature polymer electrolyte fuel cells. Journal of Power Sources, 2021, 509, 230347.	7.8	14
86	A grain refinement mechanism of cast commercial purity aluminium by vanadium. Materials Characterization, 2021, 181, 111468.	4.4	7
87	Dendrite suppression by anode polishing in zinc-ion batteries. Journal of Materials Chemistry A, 2021, 9, 15355-15362.	10.3	41
88	Oxygen evolution catalysts under proton exchange membrane conditions in a conventional three electrode cell vs. electrolyser device: a comparison study and a 3D-printed electrolyser for academic labs. Journal of Materials Chemistry A, 2021, 9, 9113-9123.	10.3	24
89	Cathode Design for Aqueous Rechargeable Multivalent Ion Batteries: Challenges and Opportunities. Advanced Functional Materials, 2021, 31, 2010445.	14.9	102
90	Supercapacitors: History, Theory, Emerging Technologies, and Applications. , 2021, , 417-449.		2

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91	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
92	Electro-thermal mapping of polymer electrolyte membrane fuel cells with a fractal flow-field. Energy Conversion and Management, 2021, 250, 114924.	9.2	8
93	Rechargeable aqueous Zn-based energy storage devices. Joule, 2021, 5, 2845-2903.	24.0	201
94	A nanoscale analysis method to reveal oxygen exchange between environment, oxide, and electrodes in ReRAM devices. APL Materials, 2021, 9, .	5.1	6
95	Nanoscale state-of-charge heterogeneities within polycrystalline nickel-rich layered oxide cathode materials. Cell Reports Physical Science, 2021, 2, 100647.	5.6	12
96	Liposome Sterile Filtration Characterization via X-ray Computed Tomography and Confocal Microscopy. Membranes, 2021, 11, 905.	3.0	1
97	Design of Scalable, Next-Generation Thick Electrodes: Opportunities and Challenges. ACS Nano, 2021, 15, 18624-18632.	14.6	54
98	Emerging X-ray imaging technologies for energy materials. Materials Today, 2020, 34, 132-147.	14.2	70
99	Packed bed compression visualisation and flow simulation using an erosion-dilation approach. Journal of Chromatography A, 2020, 1611, 460601.	3.7	7
100	Lignin-derived electrospun freestanding carbons as alternative electrodes for redox flow batteries. Carbon, 2020, 157, 847-856.	10.3	37
101	Fine structural changes of fluid catalytic catalysts and characterization of coke formed resulting from heavy oil devolatilization. Applied Catalysis B: Environmental, 2020, 263, 118329.	20.2	28
102	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
103	Evidence of structural cavities in 3D printed acetabular cups for total hip arthroplasty. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 1779-1789.	3.4	14
104	The role of synthesis pathway on the microstructural characteristics of sulfur-carbon composites: X-ray imaging and electrochemistry in lithium battery. Journal of Power Sources, 2020, 472, 228424.	7.8	26
105	Dimensional analysis of 3D-printed acetabular cups for hip arthroplasty using X-ray microcomputed tomography. Rapid Prototyping Journal, 2020, 26, 567-576.	3.2	4
106	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
107	Toward Practical Demonstration of High-Energy-Density Batteries. Joule, 2020, 4, 1359-1361.	24.0	15
108	Realizing optimal hydrogen evolution reaction properties via tuning phosphorous and transition metal interactions. Green Energy and Environment, 2020, 5, 506-512.	8.7	19

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109	Probing Heterogeneity in Li-Ion Batteries with Coupled Multiscale Models of Electrochemistry and Thermal Transport using Tomographic Domains. Journal of the Electrochemical Society, 2020, 167, 110538.	2.9	27
110	Diagnosing Stagnant Gas Bubbles in a Polymer Electrolyte Membrane Water Electrolyser Using Acoustic Emission. Frontiers in Energy Research, 2020, 8, .	2.3	10
111	Microstructural Evolution of Battery Electrodes During Calendering. Joule, 2020, 4, 2746-2768.	24.0	95
112	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
113	Elucidating the Sodiation Mechanism in Hard Carbon by Operando Raman Spectroscopy. ACS Applied Energy Materials, 2020, 3, 7474-7484.	5.1	56
114	The Role of Bi-Polar Plate Design and the Start-Up Protocol in the Spatiotemporal Dynamics during Solid Oxide Fuel Cell Anode Reduction. Energies, 2020, 13, 3552.	3.1	4
115	Data for an Advanced Microstructural and Electrochemical Datasheet on 18650 Li-ion Batteries with Nickel-Rich NMC811 Cathodes and Graphite-Silicon Anodes. Data in Brief, 2020, 32, 106033.	1.0	11
116	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
117	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
118	Study of H2S Removal Capability from Simulated Biogas by Using Waste-Derived Adsorbent Materials. Processes, 2020, 8, 1030.	2.8	17
119	4D Bragg Edge Tomography of Directional Ice Templated Graphite Electrodes. Journal of Imaging, 2020, 6, 136.	3.0	8
120	Imaging fascicular organization of rat sciatic nerves with fast neural electrical impedance tomography. Nature Communications, 2020, 11, 6241.	12.8	24
121	The Detection of Monoclinic Zirconia and Non-Uniform 3D Crystallographic Strain in a Re-Oxidized Ni-YSZ Solid Oxide Fuel Cell Anode. Crystals, 2020, 10, 941.	2.2	4
122	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
123	Rapid Preparation of Geometrically Optimal Battery Electrode Samples for Nano Scale X-ray Characterisation. Journal of the Electrochemical Society, 2020, 167, 060512.	2.9	7
124	X-ray Micro-Computed Tomography of Polymer Electrolyte Fuel Cells: What is the Representative Elementary Area?. Journal of the Electrochemical Society, 2020, 167, 013545.	2.9	30
125	Correlative acoustic time-of-flight spectroscopy and X-ray imaging to investigate gas-induced delamination in lithium-ion pouch cells during thermal runaway. Journal of Power Sources, 2020, 470, 228039.	7.8	30
126	In situ visualization by X-Ray computed tomography on sulfur stabilization and lithium polysulfides immobilization in S@HCS/MnO cathode. Energy Storage Materials, 2020, 31, 164-171.	18.0	12

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127	Exploring cycling induced crystallographic change in NMC with X-ray diffraction computed tomography. Physical Chemistry Chemical Physics, 2020, 22, 17814-17823.	2.8	28
128	Pore Network Modelling of Capillary Transport and Relative Diffusivity in Gas Diffusion Layers with Patterned Wettability. Journal of the Electrochemical Society, 2020, 167, 114512.	2.9	22
129	Hydration state diagnosis in fractal flow-field based polymer electrolyte membrane fuel cells using acoustic emission analysis. Energy Conversion and Management, 2020, 220, 113083.	9.2	21
130	Investigating high-performance sulfurâ€“metal nanocomposites for lithium batteries. Sustainable Energy and Fuels, 2020, 4, 2907-2923.	4.9	22
131	MicroCT optimisation for imaging fascicular anatomy in peripheral nerves. Journal of Neuroscience Methods, 2020, 338, 108652.	2.5	29
132	Theoretical transmissions for X-ray computed tomography studies of lithium-ion battery cathodes. Materials and Design, 2020, 191, 108585.	7.0	9
133	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
134	Probing the Structure-Performance Relationship of Lithium-Ion Battery Cathodes Using Pore-Networks Extracted from Three-Phase Tomograms. Journal of the Electrochemical Society, 2020, 167, 040528.	2.9	17
135	Nanoporous Carbons: Superior Multifunctional Activity of Nanoporous Carbons with Widely Tunable Porosity: Enhanced Storage Capacities for Carbonâ€Dioxide, Hydrogen, Water, and Electric Charge (Adv.) Tj ETQq1 1 0.784314 rgBT /O	19.5	14
136	Realising the electrochemical stability of graphene: scalable synthesis of an ultra-durable platinum catalyst for the oxygen reduction reaction. Nanoscale, 2020, 12, 16113-16122.	5.6	11
137	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
138	MoS2/NiS core-shell structures for improved electrocatalytic process of hydrogen evolution. Journal of Power Sources, 2020, 472, 228497.	7.8	33
139	Defected vanadium bronzes as superb cathodes in aqueous zinc-ion batteries. Nanoscale, 2020, 12, 20638-20648.	5.6	61
140	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
141	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
142	Multiâ€Scale Investigations of Î´â€Ni_{0.25}V₂O₅Â·nH₂O Cathode Materials in Aqueous Zincâ€Ion Batteries. Advanced Energy Materials, 2020, 10, 2000058.	19.5	173
143	The multiscale hierarchical structure of Heloderma suspectum osteoderms and their mechanical properties. Acta Biomaterialia, 2020, 107, 194-203.	8.3	16
144	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

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145	Spatial quantification of dynamic inter and intra particle crystallographic heterogeneities within lithium ion electrodes. Nature Communications, 2020, 11, 631.	12.8	73
146	Application of Photo-Electrochemically Generated Hydrogen with Fuel Cell Based Micro-Combined Heat and Power: A Dynamic System Modelling Study. Molecules, 2020, 25, 123.	3.8	5
147	Superior Multifunctional Activity of Nanoporous Carbons with Widely Tunable Porosity: Enhanced Storage Capacities for Carbonâ€Dioxide, Hydrogen, Water, and Electric Charge. Advanced Energy Materials, 2020, 10, 1903649.	19.5	41
148	Dendritic silver self-assembly in molten-carbonate membranes for efficient carbon dioxide capture. Energy and Environmental Science, 2020, 13, 1766-1775.	30.8	15
149	Resolving Liâ€Ion Battery Electrode Particles Using Rapid Labâ€Based Xâ€Ray Nanoâ€Computed Tomography for Highâ€Throughput Quantification. Advanced Science, 2020, 7, 2000362.	11.2	26
150	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
151	Electrochemical behavior of nanostructured NiO@C anode in a lithium-ion battery using LiNiâ…“Coâ…“Mnâ…“O2 cathode. Journal of Alloys and Compounds, 2020, 844, 155365.	5.5	13
152	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
153	Tracking the evolution of a single composite particle during redox cycling for application in H2 production. Scientific Reports, 2020, 10, 5266.	3.3	6
154	Zincâ€Ion Batteries: Multiâ€Scale Investigations of Ï‘â€Ni_{0.25}V₂O₅·nH₂O Cathode Materials in Aqueous Zincâ€Ion Batteries (Adv. Energy Mater. 15/2020). Advanced Energy Materials, 2020, 10, 2070068.	19.5	8
155	Data on the theoretical X-Ray attenuation and transmissions for lithium-ion battery cathodes. Data in Brief, 2020, 30, 105539.	1.0	1
156	Thermal Runaway of a Li-Ion Battery Studied by Combined ARC and Multi-Length Scale X-ray CT. Journal of the Electrochemical Society, 2020, 167, 090511.	2.9	29
157	Characterization of dimensional, morphological and morphometric features of retrieved 3D-printed acetabular cups for hip arthroplasty. Journal of Orthopaedic Surgery and Research, 2020, 15, 157.	2.3	11
158	Use of X-ray computed tomography for understanding localised, along-the-channel degradation of polymer electrolyte fuel cells. Electrochimica Acta, 2020, 352, 136464.	5.2	14
159	High-performance fuel cell designed for coking-resistance and efficient conversion of waste methane to electrical energy. Energy and Environmental Science, 2020, 13, 1879-1887.	30.8	18
160	2020 roadmap on solid-state batteries. JPhys Energy, 2020, 2, 032008.	5.3	74
161	Nature-Inspired Flow-Fields and Water Management for PEM Fuel Cells. ECS Transactions, 2020, 98, 145-152.	0.5	7
162	Identifying Defects in Li-Ion Cells Using Ultrasound Acoustic Measurements. Journal of the Electrochemical Society, 2020, 167, 120530.	2.9	37

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163	Editorsâ€™ Choiceâ€”4D Neutron and X-ray Tomography Studies of High Energy Density Primary Batteries: Part I. Dynamic Studies of LiSOCl2 during Discharge. Journal of the Electrochemical Society, 2020, 167, 130545.	2.9	12
164	Editorsâ€™ Choiceâ€”4D Neutron and X-ray Tomography Studies of High Energy Density Primary Batteries: Part II. Multi-Modal Microscopy of LiSOCl2 Cells. Journal of the Electrochemical Society, 2020, 167, 140509.	2.9	7
165	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
166	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
167	Acoustic Emission Analysis of Polymer Electrolyte Membrane Fuel Cells. ECS Transactions, 2020, 98, 177-184.	0.5	1
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