

Dan JI Brett

List of Publications by Year in descending order

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480
papers

21,238
citations

10986
71
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20961
115
g-index

493
all docs

493
docs citations

493
times ranked

18074
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Intermediate temperature solid oxide fuel cells. Chemical Society Reviews, 2008, 37, 1568. | 38.1 | 1,224 |
| 2 | In-operando high-speed tomography of lithium-ion batteries during thermal runaway. Nature Communications, 2015, 6, 6924. | 12.8 | 494 |
| 3 | Fe-N-Doped Carbon Capsules with Outstanding Electrochemical Performance and Stability for the Oxygen Reduction Reaction in Both Acid and Alkaline Conditions. ACS Nano, 2016, 10, 5922-5932. | 14.6 | 403 |
| 4 | 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 |
| 5 | Alleviation of Dendrite Formation on Zinc Anodes via Electrolyte Additives. ACS Energy Letters, 2021, 6, 395-403. | 17.4 | 340 |
| 6 | Review of gas diffusion cathodes for alkaline fuel cells. Journal of Power Sources, 2009, 187, 39-48. | 7.8 | 317 |
| 7 | 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 |
| 8 | Ex-situ characterisation of gas diffusion layers for proton exchange membrane fuel cells. Journal of Power Sources, 2012, 218, 393-404. | 7.8 | 269 |
| 9 | A review of domestic heat pumps. Energy and Environmental Science, 2012, 5, 9291. | 30.8 | 251 |
| 10 | 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 |
| 11 | Rechargeable aqueous Zn-based energy storage devices. Joule, 2021, 5, 2845-2903. | 24.0 | 201 |
| 12 | 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 |
| 13 | Insights on Flexible Zinc-Ion Batteries from Lab Research to Commercialization. Advanced Materials, 2021, 33, e2007548. | 21.0 | 191 |
| 14 | Characterization of the adsorption site energies and heterogeneous surfaces of porous materials. Journal of Materials Chemistry A, 2019, 7, 10104-10137. | 10.3 | 187 |
| 15 | Electrochemical Impedance Spectroscopy for All-Solid-State Batteries: Theory, Methods and Future Outlook. ChemElectroChem, 2021, 8, 1930-1947. | 3.4 | 176 |
| 16 | Multi-Scale Investigations of $\text{Ni}_{0.25}\text{V}_{0.2}\text{O}_{0.5}\cdot\text{nH}_2\text{O}$ Cathode Materials in Aqueous Zinc-Ion Batteries. Advanced Energy Materials, 2020, 10, 2000058. | 19.5 | 173 |
| 17 | Tortuosity in electrochemical devices: a review of calculation approaches. International Materials Reviews, 2018, 63, 47-67. | 19.3 | 172 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Palladium alloys used as electrocatalysts for the oxygen reduction reaction. Energy and Environmental Science, 2021, 14, 2639-2669. | 30.8 | 158 |
| 20 | Fuel cells for micro-combined heat and power generation. Energy and Environmental Science, 2009, 2, 729. | 30.8 | 151 |
| 21 | Superacidity in Nafion/MOF Hybrid Membranes Retains Water at Low Humidity to Enhance Proton Conduction for Fuel Cells. ACS Applied Materials & Interfaces, 2016, 8, 30687-30691. | 8.0 | 139 |
| 22 | In situ diagnostic techniques for characterisation of polymer electrolyte membrane water electrolyzers – Flow visualisation and electrochemical impedance spectroscopy. International Journal of Hydrogen Energy, 2014, 39, 4468-4482. | 7.1 | 136 |
| 23 | Exceptional supercapacitor performance from optimized oxidation of graphene-oxide. Energy Storage Materials, 2019, 17, 12-21. | 18.0 | 135 |
| 24 | A lung-inspired approach to scalable and robust fuel cell design. Energy and Environmental Science, 2018, 11, 136-143. | 30.8 | 134 |
| 25 | Three-dimensional characterization of electrodeposited lithium microstructures using synchrotron X-ray phase contrast imaging. Chemical Communications, 2015, 51, 266-268. | 4.1 | 133 |
| 26 | 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 |
| 27 | Quartz Crystal Microbalance Electronic Interfacing Systems: A Review. Sensors, 2017, 17, 2799. | 3.8 | 126 |
| 28 | Measurement of the current distribution along a single flow channel of a solid polymer fuel cell. Electrochemistry Communications, 2001, 3, 628-632. | 4.7 | 125 |
| 29 | 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 |
| 30 | Options for residential building services design using fuel cell based micro-CHP and the potential for heat integration. Applied Energy, 2015, 138, 685-694. | 10.1 | 123 |
| 31 | Identifying the Origins of Microstructural Defects Such as Cracking within Ni-Rich NMC811 Cathode Particles for Lithium-Ion Batteries. Advanced Energy Materials, 2020, 10, 2002655. | 19.5 | 119 |
| 32 | Life cycle assessment of a polymer electrolyte membrane fuel cell system for passenger vehicles. Journal of Cleaner Production, 2017, 142, 4339-4355. | 9.3 | 115 |
| 33 | A new application for nickel foam in alkaline fuel cells. International Journal of Hydrogen Energy, 2009, 34, 6799-6808. | 7.1 | 112 |
| 34 | An efficient carbon-based ORR catalyst from low-temperature etching of ZIF-67 with ultra-small cobalt nanoparticles and high yield. Journal of Materials Chemistry A, 2019, 7, 3544-3551. | 10.3 | 112 |
| 35 | Rational Design of Hierarchically Core-Shell Structured Ni ₃ S ₂ @NiMoO ₄ Nanowires for Electrochemical Energy Storage. Small, 2018, 14, e1800791. | 10.0 | 111 |
| 36 | Non-uniform temperature distribution in Li-ion batteries during discharge – A combined thermal imaging, X-ray micro-tomography and electrochemical impedance approach. Journal of Power Sources, 2014, 252, 51-57. | 7.8 | 108 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Effect of clamping pressure on ohmic resistance and compression of gas diffusion layers for polymer electrolyte fuel cells. <i>Journal of Power Sources</i> , 2012, 219, 52-59. | 7.8 | 104 |
| 38 | 4D imaging of lithium-batteries using correlative neutron and X-ray tomography with a virtual unrolling technique. <i>Nature Communications</i> , 2020, 11, 777. | 12.8 | 104 |
| 39 | High power nano-Nb ₂ O ₅ negative electrodes for lithium-ion batteries. <i>Electrochimica Acta</i> , 2016, 192, 363-369. | 5.2 | 102 |
| 40 | Tracking Internal Temperature and Structural Dynamics during Nail Penetration of Lithium-Ion Cells. <i>Journal of the Electrochemical Society</i> , 2017, 164, A3285-A3291. | 2.9 | 102 |
| 41 | Cathode Design for Aqueous Rechargeable Multivalent Ion Batteries: Challenges and Opportunities. <i>Advanced Functional Materials</i> , 2021, 31, 2010445. | 14.9 | 102 |
| 42 | Enabling stable MnO ₂ matrix for aqueous zinc-ion battery cathodes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22075-22082. | 10.3 | 101 |
| 43 | Graphitic Carbon Nitride as a Catalyst Support in Fuel Cells and Electrolyzers. <i>Electrochimica Acta</i> , 2016, 222, 44-57. | 5.2 | 97 |
| 44 | Microstructural Evolution of Battery Electrodes During Calendering. <i>Joule</i> , 2020, 4, 2746-2768. | 24.0 | 95 |
| 45 | Modelling and experiments to identify high-risk failure scenarios for testing the safety of lithium-ion cells. <i>Journal of Power Sources</i> , 2019, 417, 29-41. | 7.8 | 93 |
| 46 | Localized Impedance Measurements along a Single Channel of a Solid Polymer Fuel Cell. <i>Electrochemical and Solid-State Letters</i> , 2003, 6, A63. | 2.2 | 92 |
| 47 | Performance of solid oxide electrolysis cells based on composite La _{0.8} Sr _{0.2} MnO ₃ -yttria stabilized zirconia and Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O ₃ oxygen electrodes. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 3958-3966. | 7.1 | 92 |
| 48 | Towards intelligent engineering of SOFC electrodes: a review of advanced microstructural characterisation techniques. <i>International Materials Reviews</i> , 2010, 55, 347-363. | 19.3 | 92 |
| 49 | Lithiation-Induced Dilation Mapping in a Lithium-Ion Battery Electrode by 3D X-Ray Microscopy and Digital Volume Correlation. <i>Advanced Energy Materials</i> , 2014, 4, 1300506. | 19.5 | 89 |
| 50 | Identifying the Cause of Rupture of Li-Ion Batteries during Thermal Runaway. <i>Advanced Science</i> , 2018, 5, 1700369. | 11.2 | 89 |
| 51 | A sizing-design methodology for hybrid fuel cell power systems and its application to an unmanned underwater vehicle. <i>Journal of Power Sources</i> , 2010, 195, 6559-6569. | 7.8 | 88 |
| 52 | Free-standing supercapacitors from Kraft lignin nanofibers with remarkable volumetric energy density. <i>Chemical Science</i> , 2019, 10, 2980-2988. | 7.4 | 88 |
| 53 | Carbon monoxide poisoning and mitigation strategies for polymer electrolyte membrane fuel cells – A review. <i>Progress in Energy and Combustion Science</i> , 2020, 79, 100842. | 31.2 | 87 |
| 54 | High power TiO ₂ and high capacity Sn-doped TiO ₂ nanomaterial anodes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2015, 294, 94-102. | 7.8 | 86 |

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|----|---|------|-----------|
| 73 | High power Nb-doped LiFePO ₄ Li-ion battery cathodes; pilot-scale synthesis and electrochemical properties. <i>Journal of Power Sources</i> , 2016, 326, 476-481. | 7.8 | 73 |
| 74 | Spatially Resolving Lithiation in Siliconâ€“Graphite Composite Electrodes via in Situ High-Energy X-ray Diffraction Computed Tomography. <i>Nano Letters</i> , 2019, 19, 3811-3820. | 9.1 | 73 |
| 75 | Spatial quantification of dynamic inter and intra particle crystallographic heterogeneities within lithium ion electrodes. <i>Nature Communications</i> , 2020, 11, 631. | 12.8 | 73 |
| 76 | The Role of Phosphate Group in Doped Cobalt Molybdate: Improved Electrocatalytic Hydrogen Evolution Performance. <i>Advanced Science</i> , 2020, 7, 1903674. | 11.2 | 73 |
| 77 | Solid oxide fuel cell/gas turbine hybrid system analysis for high-altitude long-endurance unmanned aerial vehicles. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 7214-7223. | 7.1 | 72 |
| 78 | Identification and manipulation of dynamic active site deficiency-induced competing reactions in electrocatalytic oxidation processes. <i>Energy and Environmental Science</i> , 2022, 15, 2386-2396. | 30.8 | 71 |
| 79 | Rationally Designed Sodium Chromium Vanadium Phosphate Cathodes with Multiâ€“Electron Reaction for Fastâ€“Charging Sodiumâ€“Ion Batteries. <i>Advanced Energy Materials</i> , 2022, 12, . | 19.5 | 71 |
| 80 | Mesoporous nickel selenide N-doped carbon as a robust electrocatalyst for overall water splitting. <i>Electrochimica Acta</i> , 2019, 300, 93-101. | 5.2 | 70 |
| 81 | A Review of Lithiumâ€“Ion Battery Electrode Drying: Mechanisms and Metrology. <i>Advanced Energy Materials</i> , 2022, 12, . | 19.5 | 70 |
| 82 | Fuel cell systems optimisation â€“ Methods and strategies. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 14678-14703. | 7.1 | 69 |
| 83 | Dead-ended anode polymer electrolyte fuel cell stack operation investigated using electrochemical impedance spectroscopy, off-gas analysis and thermal imaging. <i>Journal of Power Sources</i> , 2014, 254, 1-9. | 7.8 | 69 |
| 84 | X-ray micro-tomography as a diagnostic tool for the electrode degradation in vanadium redox flow batteries. <i>Electrochemistry Communications</i> , 2014, 48, 155-159. | 4.7 | 69 |
| 85 | Combined current and temperature mapping in an air-cooled, open-cathode polymer electrolyte fuel cell under steady-state and dynamic conditions. <i>Journal of Power Sources</i> , 2015, 297, 315-322. | 7.8 | 69 |
| 86 | Progress and Perspectives of Organosulfur for Lithiumâ€“Sulfur Batteries. <i>Advanced Energy Materials</i> , 2022, 12, 2103483. | 19.5 | 69 |
| 87 | Effect of temperature uncertainty on polymer electrolyte fuel cell performance. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 1439-1448. | 7.1 | 67 |
| 88 | The effect of felt compression on the performance and pressure drop of all-vanadium redox flow batteries. <i>Journal of Energy Storage</i> , 2016, 8, 91-98. | 8.1 | 67 |
| 89 | Two-dimensional model of low-pressure PEM electrolyser: Two-phase flow regime, electrochemical modelling and experimental validation. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 26203-26216. | 7.1 | 67 |
| 90 | Fuel cell micro-CHP techno-economics: Part 1 â€“ model concept and formulation. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 9545-9557. | 7.1 | 66 |

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| 91 | Current density mapping and optical flow visualisation of a polymer electrolyte membrane water electrolyser. <i>Journal of Power Sources</i> , 2014, 265, 97-103. | 7.8 | 66 |
| 92 | Quantifying Bulk Electrode Strain and Material Displacement within Lithium Batteries via High-Speed Operando Tomography and Digital Volume Correlation. <i>Advanced Science</i> , 2016, 3, 1500332. | 11.2 | 66 |
| 93 | Operando Electrochemical Atomic Force Microscopy of Solid-Electrolyte Interphase Formation on Graphite Anodes: The Evolution of SEI Morphology and Mechanical Properties. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 35132-35141. | 8.0 | 65 |
| 94 | Investigation of a Biomass Hydrogel Electrolyte Naturally Stabilizing Cathodes for Zinc-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 745-754. | 8.0 | 64 |
| 95 | Graphitic Carbon Nitride Supported Catalysts for Polymer Electrolyte Fuel Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 6831-6838. | 3.1 | 63 |
| 96 | Characterising the structural properties of polymer separators for lithium-ion batteries in 3D using phase contrast X-ray microscopy. <i>Journal of Power Sources</i> , 2016, 333, 184-192. | 7.8 | 63 |
| 97 | Pilot-scale continuous synthesis of a vanadium-doped LiFePO ₄ /C nanocomposite high-rate cathodes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2016, 302, 410-418. | 7.8 | 63 |
| 98 | Raman Spectroscopy as a Probe of Temperature and Oxidation State for Gadolinium-Doped Ceria Used in Solid Oxide Fuel Cells. <i>Journal of Physical Chemistry A</i> , 2008, 112, 1497-1501. | 2.5 | 62 |
| 99 | Exploring 3D microstructural evolution in Li-Sulfur battery electrodes using in-situ X-ray tomography. <i>Scientific Reports</i> , 2016, 6, 35291. | 3.3 | 61 |
| 100 | Defected vanadium bronzes as superb cathodes in aqueous zinc-ion batteries. <i>Nanoscale</i> , 2020, 12, 20638-20648. | 5.6 | 61 |
| 101 | Fuel cell micro-CHP techno-economics: Part 2 - Model application to consider the economic and environmental impact of stack degradation. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 9558-9569. | 7.1 | 60 |
| 102 | Mass transport in PEM water electrolyzers: A review. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 30-56. | 7.1 | 60 |
| 103 | The application of hierarchical structures in energy devices: new insights into the design of solid oxide fuel cells with enhanced mass transport. <i>Energy and Environmental Science</i> , 2018, 11, 2390-2403. | 30.8 | 59 |
| 104 | Spatially resolved ultrasound diagnostics of Li-ion battery electrodes. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 6354-6361. | 2.8 | 59 |
| 105 | Sodium Superionic Conductors (NASICONs) as Cathode Materials for Sodium-Ion Batteries. <i>Electrochemical Energy Reviews</i> , 2021, 4, 793-823. | 25.5 | 59 |
| 106 | Cage-like MnO ₂ -Mn ₂ O ₃ hollow spheres with high specific capacitance and high rate capability as supercapacitor material. <i>Electrochimica Acta</i> , 2016, 219, 540-546. | 5.2 | 58 |
| 107 | The effect of fuel composition and temperature on the interaction of H ₂ S with nickel-ceria anodes for Solid Oxide Fuel Cells. <i>Journal of Power Sources</i> , 2008, 183, 232-239. | 7.8 | 57 |
| 108 | A techno-economic appraisal of hydrogen generation and the case for solid oxide electrolyser cells. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 5782-5796. | 7.1 | 57 |

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|-----|--|------|-----------|
| 109 | Comparison of three-dimensional analysis and stereological techniques for quantifying lithium-ion battery electrode microstructures. <i>Journal of Microscopy</i> , 2016, 263, 280-292. | 1.8 | 57 |
| 110 | Review of Materials and Characterization Methods for Polymer Electrolyte Fuel Cell Flow-Field Plates. <i>Journal of Fuel Cell Science and Technology</i> , 2007, 4, 29-44. | 0.8 | 56 |
| 111 | Optimisation of air cooled, open-cathode fuel cells: Current of lowest resistance and electro-thermal performance mapping. <i>Journal of Power Sources</i> , 2015, 291, 261-269. | 7.8 | 56 |
| 112 | A cost effective, highly porous, manganese oxide/carbon supercapacitor material with high rate capability. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5390-5394. | 10.3 | 56 |
| 113 | Design of next-generation ceramic fuel cells and real-time characterization with synchrotron X-ray diffraction computed tomography. <i>Nature Communications</i> , 2019, 10, 1497. | 12.8 | 56 |
| 114 | Elucidating the Sodiation Mechanism in Hard Carbon by Operando Raman Spectroscopy. <i>ACS Applied Energy Materials</i> , 2020, 3, 7474-7484. | 5.1 | 56 |
| 115 | Electrospinning as a route to advanced carbon fibre materials for selected low-temperature electrochemical devices: A review. <i>Journal of Energy Chemistry</i> , 2021, 59, 492-529. | 12.9 | 56 |
| 116 | Enhancing the Electrochemical Performance of Sodium-ion Batteries by Building Optimized NiS ₂ /NiSe ₂ Heterostructures. <i>Small</i> , 2021, 17, e2104186. | 10.0 | 56 |
| 117 | Ranunculus flower-like Ni(OH) ₂ @Mn ₂ O ₃ as a high specific capacitance cathode material for alkaline supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7591-7595. | 10.3 | 55 |
| 118 | Laser-preparation of geometrically optimised samples for X-ray nano-CT. <i>Journal of Microscopy</i> , 2017, 267, 384-396. | 1.8 | 54 |
| 119 | Microstructural degradation of silicon electrodes during lithiation observed via operando X-ray tomographic imaging. <i>Journal of Power Sources</i> , 2017, 342, 904-912. | 7.8 | 54 |
| 120 | Transition-Metal-Doped γ -MnO ₂ Nanorods as Bifunctional Catalysts for Efficient Oxygen Reduction and Evolution Reactions. <i>ChemistrySelect</i> , 2018, 3, 2613-2622. | 1.5 | 54 |
| 121 | ZIF-8-Derived Hollow Carbon for Efficient Adsorption of Antibiotics. <i>Nanomaterials</i> , 2019, 9, 117. | 4.1 | 54 |
| 122 | Tracking lithium penetration in solid electrolytes in 3D by in-situ synchrotron X-ray computed tomography. <i>Nano Energy</i> , 2021, 82, 105744. | 16.0 | 54 |
| 123 | Design of Scalable, Next-Generation Thick Electrodes: Opportunities and Challenges. <i>ACS Nano</i> , 2021, 15, 18624-18632. | 14.6 | 54 |
| 124 | A multi-objective optimisation model for a general polymer electrolyte membrane fuel cell system. <i>Journal of Power Sources</i> , 2010, 195, 2754-2763. | 7.8 | 53 |
| 125 | A study of the effect of compression on the performance of polymer electrolyte fuel cells using electrochemical impedance spectroscopy and dimensional change analysis. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 7414-7422. | 7.1 | 53 |
| 126 | 4D analysis of the microstructural evolution of Si-based electrodes during lithiation: Time-lapse X-ray imaging and digital volume correlation. <i>Journal of Power Sources</i> , 2016, 320, 196-203. | 7.8 | 53 |

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|-----|---|------|-----------|
| 127 | Correlation between triple phase boundary and the microstructure of Solid Oxide Fuel Cell anodes: The role of composition, porosity and Ni densification. <i>Journal of Power Sources</i> , 2017, 365, 210-219. | 7.8 | 53 |
| 128 | Synergistic relationship between the three-dimensional nanostructure and electrochemical performance in biocarbon supercapacitor electrode materials. <i>Sustainable Energy and Fuels</i> , 2018, 2, 772-785. | 4.9 | 53 |
| 129 | Effect of serpentine flow-field design on the water management of polymer electrolyte fuel cells: An in-operando neutron radiography study. <i>Journal of Power Sources</i> , 2018, 399, 254-263. | 7.8 | 53 |
| 130 | Core-shell TiO ₂ @C ultralong nanotubes with enhanced adsorption of antibiotics. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19081-19086. | 10.3 | 53 |
| 131 | Self-standing electrodes with core-shell structures for high-performance supercapacitors. <i>Energy Storage Materials</i> , 2017, 9, 119-125. | 18.0 | 52 |
| 132 | Structural engineering of cathodes for improved Zn-ion batteries. <i>Journal of Energy Chemistry</i> , 2021, 58, 147-155. | 12.9 | 52 |
| 133 | Concept and system design for a ZEBRA battery-intermediate temperature solid oxide fuel cell hybrid vehicle. <i>Journal of Power Sources</i> , 2006, 157, 782-798. | 7.8 | 50 |
| 134 | Multi-scale 3D investigations of a commercial 18650 Li-ion battery with correlative electron- and X-ray microscopy. <i>Journal of Power Sources</i> , 2017, 357, 77-86. | 7.8 | 50 |
| 135 | A universal pH range and a highly efficient Mo ₂ C-based electrocatalyst for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 19879-19886. | 10.3 | 50 |
| 136 | Four-Dimensional Studies of Morphology Evolution in Lithium-Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2018, 1, 5090-5100. | 5.1 | 49 |
| 137 | Co-gasification of beech-wood and polyethylene in a fluidized-bed reactor. <i>Fuel Processing Technology</i> , 2019, 190, 29-37. | 7.2 | 49 |
| 138 | Nano-engineered intrapores in nanoparticles of PtNi networks for increased oxygen reduction reaction activity. <i>Journal of Power Sources</i> , 2018, 374, 48-54. | 7.8 | 48 |
| 139 | Multi-length scale microstructural design of lithium-ion battery electrodes for improved discharge rate performance. <i>Energy and Environmental Science</i> , 2021, 14, 5929-5946. | 30.8 | 48 |
| 140 | Fair electricity transfer price and unit capacity selection for microgrids. <i>Energy Economics</i> , 2013, 36, 581-593. | 12.1 | 47 |
| 141 | The Hydro-electro-thermal Performance of Air-cooled, Open-cathode Polymer Electrolyte Fuel Cells: Combined Localised Current Density, Temperature and Water Mapping. <i>Electrochimica Acta</i> , 2015, 180, 307-315. | 5.2 | 47 |
| 142 | Investigating the evolving microstructure of lithium metal electrodes in 3D using X-ray computed tomography. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 22111-22120. | 2.8 | 47 |
| 143 | Cracking predictions of lithium-ion battery electrodes by X-ray computed tomography and modelling. <i>Journal of Power Sources</i> , 2022, 526, 231119. | 7.8 | 47 |
| 144 | Hydrogen Oxidation on PdIr/C Catalysts in Alkaline Media. <i>Journal of the Electrochemical Society</i> , 2014, 161, F458-F463. | 2.9 | 46 |

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|-----|---|------|-----------|
| 145 | VO ₂ nano-sheet negative electrodes for lithium-ion batteries. <i>Electrochemistry Communications</i> , 2016, 64, 56-60. | 4.7 | 46 |
| 146 | The effect of non-uniform compression and flow-field arrangements on membrane electrode assemblies - X-ray computed tomography characterisation and effective parameter determination. <i>Journal of Power Sources</i> , 2019, 426, 97-110. | 7.8 | 46 |
| 147 | Measurement and modelling of carbon monoxide poisoning distribution within a polymer electrolyte fuel cell. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 863-871. | 7.1 | 45 |
| 148 | Application of infrared thermal imaging to the study of pellet solid oxide fuel cells. <i>Journal of Power Sources</i> , 2007, 166, 112-119. | 7.8 | 45 |
| 149 | A study of the effect of water management and electrode flooding on the dimensional change of polymer electrolyte fuel cells. <i>Journal of Power Sources</i> , 2013, 242, 70-77. | 7.8 | 45 |
| 150 | System-level electro-thermal optimisation of air-cooled open-cathode polymer electrolyte fuel cells: Air blower parasitic load and schemes for dynamic operation. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 16760-16766. | 7.1 | 45 |
| 151 | Toward high practical capacitance of Ni(OH) ₂ using highly conductive CoB nanochain supports. <i>Journal of Materials Chemistry A</i> , 2017, 5, 92-96. | 10.3 | 45 |
| 152 | Facile Fabrication of Robust Hydrogen Evolution Electrodes under High Current Densities via Pt@Cu Interactions. <i>Advanced Functional Materials</i> , 2021, 31, 2105579. | 14.9 | 45 |
| 153 | Membrane resistance and current distribution measurements under various operating conditions in a polymer electrolyte fuel cell. <i>Journal of Power Sources</i> , 2007, 172, 2-13. | 7.8 | 44 |
| 154 | What Happens Inside a Fuel Cell? Developing an Experimental Functional Map of Fuel Cell Performance. <i>ChemPhysChem</i> , 2010, 11, 2714-2731. | 2.1 | 44 |
| 155 | Biobutanol as Fuel for Direct Alcohol Fuel Cells—Investigation of Sn-Modified Pt Catalyst for Butanol Electro-oxidation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 12859-12870. | 8.0 | 43 |
| 156 | The use of contrast enhancement techniques in X-ray imaging of lithium-ion battery electrodes. <i>Chemical Engineering Science</i> , 2016, 154, 27-33. | 3.8 | 43 |
| 157 | Design and synthesis of tremella-like Ni-CoS flakes on co-coated cotton textile as high-performance electrode for flexible supercapacitor. <i>Journal of Alloys and Compounds</i> , 2020, 814, 151789. | 5.5 | 43 |
| 158 | In situ compression and X-ray computed tomography of flow battery electrodes. <i>Journal of Energy Chemistry</i> , 2018, 27, 1353-1361. | 12.9 | 42 |
| 159 | New insights into the electrochemical behaviour of porous carbon electrodes for supercapacitors. <i>Journal of Energy Storage</i> , 2018, 19, 337-347. | 8.1 | 42 |
| 160 | High-Density Lignin-Derived Carbon Nanofiber Supercapacitors with Enhanced Volumetric Energy Density. <i>Advanced Science</i> , 2021, 8, e2100016. | 11.2 | 42 |
| 161 | Correlative study of microstructure and performance for porous transport layers in polymer electrolyte membrane water electrolyzers by X-ray computed tomography and electrochemical characterization. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 19519-19532. | 7.1 | 41 |
| 162 | Characterization of water management in metal foam flow-field based polymer electrolyte fuel cells using in-operando neutron radiography. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 2195-2205. | 7.1 | 41 |

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|-----|---|------|-----------|
| 163 | An anti-aging polymer electrolyte for flexible rechargeable zinc-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22637-22644. | 10.3 | 41 |
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