

Patrice Simon

List of Publications by Year in descending order

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250
papers

84,146
citations

2322

98
h-index

911

241
g-index

263
all docs

263
docs citations

263
times ranked

41713
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Materials for electrochemical capacitors. Nature Materials, 2008, 7, 845-854. | 27.5 | 14,090 |
| 2 | Where Do Batteries End and Supercapacitors Begin?. Science, 2014, 343, 1210-1211. | 12.6 | 4,605 |
| 3 | Pseudocapacitive oxide materials for high-rate electrochemical energy storage. Energy and Environmental Science, 2014, 7, 1597. | 30.8 | 4,223 |
| 4 | Electrochemical Capacitors for Energy Management. Science, 2008, 321, 651-652. | 12.6 | 4,116 |
| 5 | High-rate electrochemical energy storage through Li ⁺ intercalation pseudocapacitance. Nature Materials, 2013, 12, 518-522. | 27.5 | 4,021 |
| 6 | Anomalous Increase in Carbon Capacitance at Pore Sizes Less Than 1 Nanometer. Science, 2006, 313, 1760-1763. | 12.6 | 3,404 |
| 7 | Cation Intercalation and High Volumetric Capacitance of Two-Dimensional Titanium Carbide. Science, 2013, 341, 1502-1505. | 12.6 | 3,329 |
| 8 | Ultrahigh-power micrometre-sized supercapacitors based on onion-like carbon. Nature Nanotechnology, 2010, 5, 651-654. | 31.5 | 2,451 |
| 9 | Relation between the Ion Size and Pore Size for an Electric Double-Layer Capacitor. Journal of the American Chemical Society, 2008, 130, 2730-2731. | 13.7 | 2,066 |
| 10 | True Performance Metrics in Electrochemical Energy Storage. Science, 2011, 334, 917-918. | 12.6 | 2,057 |
| 11 | High rate capabilities Fe ₃ O ₄ -based Cu nano-architected electrodes for lithium-ion battery applications. Nature Materials, 2006, 5, 567-573. | 27.5 | 1,924 |
| 12 | Electrochemical Characteristics and Impedance Spectroscopy Studies of Carbon-Carbon Supercapacitors. Journal of the Electrochemical Society, 2003, 150, A292. | 2.9 | 1,680 |
| 13 | Efficient storage mechanisms for building better supercapacitors. Nature Energy, 2016, 1, . | 39.5 | 1,655 |
| 14 | Ultra-high-rate pseudocapacitive energy storage in two-dimensional transition metal carbides. Nature Energy, 2017, 2, . | 39.5 | 1,626 |
| 15 | Energy applications of ionic liquids. Energy and Environmental Science, 2014, 7, 232-250. | 30.8 | 1,455 |
| 16 | Capacitive Energy Storage in Nanostructured Carbon-Electrolyte Systems. Accounts of Chemical Research, 2013, 46, 1094-1103. | 15.6 | 1,281 |
| 17 | MXene: a promising transition metal carbide anode for lithium-ion batteries. Electrochemistry Communications, 2012, 16, 61-64. | 4.7 | 1,252 |
| 18 | Monolithic Carbide-Derived Carbon Films for Micro-Supercapacitors. Science, 2010, 328, 480-483. | 12.6 | 1,206 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Perspectives for electrochemical capacitors and related devices. <i>Nature Materials</i> , 2020, 19, 1151-1163. | 27.5 | 1,187 |
| 20 | Studies and characterisations of various activated carbons used for carbon/carbon supercapacitors. <i>Journal of Power Sources</i> , 2001, 101, 109-116. | 7.8 | 1,145 |
| 21 | A general Lewis acidic etching route for preparing MXenes with enhanced electrochemical performance in non-aqueous electrolyte. <i>Nature Materials</i> , 2020, 19, 894-899. | 27.5 | 870 |
| 22 | On the molecular origin of supercapacitance in nanoporous carbon electrodes. <i>Nature Materials</i> , 2012, 11, 306-310. | 27.5 | 861 |
| 23 | Energy Storage Data Reporting in Perspective—Guidelines for Interpreting the Performance of Electrochemical Energy Storage Systems. <i>Advanced Energy Materials</i> , 2019, 9, 1902007. | 19.5 | 793 |
| 24 | On-chip and freestanding elastic carbon films for micro-supercapacitors. <i>Science</i> , 2016, 351, 691-695. | 12.6 | 623 |
| 25 | Highly confined ions store charge more efficiently in supercapacitors. <i>Nature Communications</i> , 2013, 4, 2701. | 12.8 | 570 |
| 26 | Desolvation of Ions in Subnanometer Pores and Its Effect on Capacitance and Double-Layer Theory. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 3392-3395. | 13.8 | 569 |
| 27 | High temperature carbon—carbon supercapacitor using ionic liquid as electrolyte. <i>Journal of Power Sources</i> , 2007, 165, 922-927. | 7.8 | 552 |
| 28 | Long-term cycling behavior of asymmetric activated carbon/MnO ₂ aqueous electrochemical supercapacitor. <i>Journal of Power Sources</i> , 2007, 173, 633-641. | 7.8 | 453 |
| 29 | Elaboration of a microstructured inkjet-printed carbon electrochemical capacitor. <i>Journal of Power Sources</i> , 2010, 195, 1266-1269. | 7.8 | 421 |
| 30 | High capacitance of surface-modified 2D titanium carbide in acidic electrolyte. <i>Electrochemistry Communications</i> , 2014, 48, 118-122. | 4.7 | 420 |
| 31 | Nanoporous carbon for electrochemical capacitive energy storage. <i>Chemical Society Reviews</i> , 2020, 49, 3005-3039. | 38.1 | 391 |
| 32 | High-Rate, Long-Life Ni—Sn Nanostructured Electrodes for Lithium-Ion Batteries. <i>Advanced Materials</i> , 2007, 19, 1632-1635. | 21.0 | 378 |
| 33 | Modification of Al current collector surface by sol-gel deposit for carbon—carbon supercapacitor applications. <i>Electrochimica Acta</i> , 2004, 49, 905-912. | 5.2 | 377 |
| 34 | Influences from solvents on charge storage in titanium carbide MXenes. <i>Nature Energy</i> , 2019, 4, 241-248. | 39.5 | 363 |
| 35 | Capacitive Energy Storage from ~50 to 100 °C Using an Ionic Liquid Electrolyte. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2396-2401. | 4.6 | 361 |
| 36 | 3D Macroscopic Architectures from Self-Assembled MXene Hydrogels. <i>Advanced Functional Materials</i> , 2019, 29, 1903960. | 14.9 | 360 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Two-Dimensional Vanadium Carbide (MXene) as Positive Electrode for Sodium-Ion Capacitors. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2305-2309. | 4.6 | 358 |
| 38 | Materials for supercapacitors: When Li-ion battery power is not enough. <i>Materials Today</i> , 2018, 21, 419-436. | 14.2 | 335 |
| 39 | A Non-Aqueous Asymmetric Cell with a Ti ₂ C-Based Two-Dimensional Negative Electrode. <i>Journal of the Electrochemical Society</i> , 2012, 159, A1368-A1373. | 2.9 | 332 |
| 40 | High power density electrodes for Carbon supercapacitor applications. <i>Electrochimica Acta</i> , 2005, 50, 4174-4181. | 5.2 | 327 |
| 41 | Polythiophene-based supercapacitors. <i>Journal of Power Sources</i> , 1999, 80, 142-148. | 7.8 | 322 |
| 42 | Outstanding performance of activated graphene based supercapacitors in ionic liquid electrolyte from 50 to 80°C. <i>Nano Energy</i> , 2013, 2, 403-411. | 16.0 | 314 |
| 43 | In situ NMR and electrochemical quartz crystal microbalance techniques reveal the structure of the electrical double layer in supercapacitors. <i>Nature Materials</i> , 2015, 14, 812-819. | 27.5 | 296 |
| 44 | Nanoarchitected Graphene-Based Supercapacitors for Next-Generation Energy Storage Applications. <i>Chemistry - A European Journal</i> , 2014, 20, 13838-13852. | 3.3 | 274 |
| 45 | Capacitance of Ti ₃ C ₂ MXene in ionic liquid electrolyte. <i>Journal of Power Sources</i> , 2016, 326, 575-579. | 7.8 | 250 |
| 46 | New Materials and New Configurations for Advanced Electrochemical Capacitors. <i>Electrochemical Society Interface</i> , 2008, 17, 34-37. | 0.4 | 249 |
| 47 | Electrochemical Quartz Crystal Microbalance (EQCM) Study of Ion Dynamics in Nanoporous Carbons. <i>Journal of the American Chemical Society</i> , 2014, 136, 8722-8728. | 13.7 | 248 |
| 48 | Nanostructured Carbons: Double-Layer Capacitance and More. <i>Electrochemical Society Interface</i> , 2008, 17, 38-43. | 0.4 | 246 |
| 49 | Capacitance of two-dimensional titanium carbide (MXene) and MXene/carbon nanotube composites in organic electrolytes. <i>Journal of Power Sources</i> , 2016, 306, 510-515. | 7.8 | 245 |
| 50 | Electrochemical Kinetics of Nanostructured Nb ₂ O ₅ Electrodes. <i>Journal of the Electrochemical Society</i> , 2014, 161, A718-A725. | 2.9 | 235 |
| 51 | Charge storage mechanism in nanoporous carbons and its consequence for electrical double layer capacitors. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 3457-3467. | 3.4 | 233 |
| 52 | Microelectrode Study of Pore Size, Ion Size, and Solvent Effects on the Charge/Discharge Behavior of Microporous Carbons for Electrical Double-Layer Capacitors. <i>Journal of the Electrochemical Society</i> , 2009, 156, A7. | 2.9 | 231 |
| 53 | 3D lithium ion batteries—from fundamentals to fabrication. <i>Journal of Materials Chemistry</i> , 2011, 21, 9876. | 6.7 | 231 |
| 54 | Self-Supported Three-Dimensional Nanoelectrodes for Microbattery Applications. <i>Nano Letters</i> , 2009, 9, 3230-3233. | 9.1 | 226 |

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|----|---|------|-----------|
| 55 | Influence of carbon nanotubes addition on carbonâ€“carbon supercapacitor performances in organic electrolyte. <i>Journal of Power Sources</i> , 2005, 139, 371-378. | 7.8 | 222 |
| 56 | Simulating Supercapacitors: Can We Model Electrodes As Constant Charge Surfaces?. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 264-268. | 4.6 | 220 |
| 57 | Partial breaking of the Coulombic ordering of ionic liquids confined in carbon nanopores. <i>Nature Materials</i> , 2017, 16, 1225-1232. | 27.5 | 219 |
| 58 | On the origin of the extra capacity at low potential in materials for Li batteries reacting through conversion reaction. <i>Electrochimica Acta</i> , 2012, 61, 13-18. | 5.2 | 214 |
| 59 | Materials for electrochemical capacitors. , 2009, , 320-329. | | 205 |
| 60 | On the Dynamics of Charging in Nanoporous Carbon-Based Supercapacitors. <i>ACS Nano</i> , 2014, 8, 1576-1583. | 14.6 | 201 |
| 61 | Cycling stability of a hybrid activated carbon//poly(3-methylthiophene) supercapacitor with N-butyl-N-methylpyrrolidinium bis(trifluoromethanesulfonyl)imide ionic liquid as electrolyte. <i>Electrochimica Acta</i> , 2005, 50, 2233-2237. | 5.2 | 186 |
| 62 | NMR Study of Ion Dynamics and Charge Storage in Ionic Liquid Supercapacitors. <i>Journal of the American Chemical Society</i> , 2015, 137, 7231-7242. | 13.7 | 182 |
| 63 | Two-dimensional MXenes for electrochemical capacitor applications: Progress, challenges and perspectives. <i>Energy Storage Materials</i> , 2021, 35, 630-660. | 18.0 | 182 |
| 64 | Solvent effect on the ion adsorption from ionic liquid electrolyte into sub-nanometer carbon pores. <i>Electrochimica Acta</i> , 2009, 54, 7025-7032. | 5.2 | 181 |
| 65 | Two-Dimensional MXene with Controlled Interlayer Spacing for Electrochemical Energy Storage. <i>ACS Nano</i> , 2017, 11, 2393-2396. | 14.6 | 178 |
| 66 | Direct Laser Writing of Graphene Made from Chemical Vapor Deposition for Flexible, Integratable Microâ€“Supercapacitors with Ultrahigh Power Output. <i>Advanced Materials</i> , 2018, 30, e1801384. | 21.0 | 178 |
| 67 | Activated Carbon/Conducting Polymer Hybrid Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2003, 150, A645. | 2.9 | 177 |
| 68 | Increase in Capacitance by Subnanometer Pores in Carbon. <i>ACS Energy Letters</i> , 2016, 1, 1262-1265. | 17.4 | 173 |
| 69 | Continuous carbide-derived carbon films with high volumetric capacitance. <i>Energy and Environmental Science</i> , 2011, 4, 135-138. | 30.8 | 168 |
| 70 | Structure and Electrochemical Performance of Carbideâ€“Derived Carbon Nanopowders. <i>Advanced Functional Materials</i> , 2013, 23, 1081-1089. | 14.9 | 165 |
| 71 | Qualitative Electrochemical Impedance Spectroscopy study of ion transport into sub-nanometer carbon pores in Electrochemical Double Layer Capacitor electrodes. <i>Electrochimica Acta</i> , 2010, 55, 7489-7494. | 5.2 | 156 |
| 72 | High rate capability pure Sn-based nano-architected electrode assembly for rechargeable lithium batteries. <i>Journal of Power Sources</i> , 2009, 188, 578-582. | 7.8 | 155 |

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|----|--|------|-----------|
| 73 | Nanoarchitected 3D Cathodes for Li-ion Microbatteries. <i>Advanced Materials</i> , 2010, 22, 4978-4981. | 21.0 | 153 |
| 74 | In Situ NMR Spectroscopy of Supercapacitors: Insight into the Charge Storage Mechanism. <i>Journal of the American Chemical Society</i> , 2013, 135, 18968-18980. | 13.7 | 152 |
| 75 | Confinement, Desolvation, And Electrosorption Effects on the Diffusion of Ions in Nanoporous Carbon Electrodes. <i>Journal of the American Chemical Society</i> , 2015, 137, 12627-12632. | 13.7 | 152 |
| 76 | Modifications of MXene layers for supercapacitors. <i>Nano Energy</i> , 2020, 73, 104734. | 16.0 | 149 |
| 77 | Real-Time NMR Studies of Electrochemical Double-Layer Capacitors. <i>Journal of the American Chemical Society</i> , 2011, 133, 19270-19273. | 13.7 | 145 |
| 78 | Electrode surface treatment and electrochemical impedance spectroscopy study on carbon/carbon supercapacitors. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 82, 639-646. | 2.3 | 144 |
| 79 | Fast Charging Materials for High Power Applications. <i>Advanced Energy Materials</i> , 2020, 10, 2001128. | 19.5 | 136 |
| 80 | Lithium conducting solid electrolyte $\text{Li}_{1.3}\text{Al}_{0.3}\text{Ti}_{1.7}(\text{PO}_4)_3$ obtained via solution chemistry. <i>Journal of the European Ceramic Society</i> , 2013, 33, 1145-1153. | 5.7 | 135 |
| 81 | Electrochemical and in-situ X-ray diffraction studies of $\text{Ti}_3\text{C}_2\text{T}_x$ MXene in ionic liquid electrolyte. <i>Electrochemistry Communications</i> , 2016, 72, 50-53. | 4.7 | 134 |
| 82 | TiO_2 (B)/activated carbon non-aqueous hybrid system for energy storage. <i>Journal of Power Sources</i> , 2006, 158, 571-577. | 7.8 | 133 |
| 83 | Hard carbons derived from green phenolic resins for Na-ion batteries. <i>Carbon</i> , 2018, 139, 248-257. | 10.3 | 131 |
| 84 | $\text{Li}_4\text{Ti}_5\text{O}_{12}$ /poly(methyl)thiophene asymmetric hybrid electrochemical device. <i>Journal of Power Sources</i> , 2004, 125, 95-102. | 7.8 | 130 |
| 85 | Continuous transition from double-layer to Faradaic charge storage in confined electrolytes. <i>Nature Energy</i> , 2022, 7, 222-228. | 39.5 | 130 |
| 86 | Micro-supercapacitors from carbide derived carbon (CDC) films on silicon chips. <i>Journal of Power Sources</i> , 2013, 225, 240-244. | 7.8 | 129 |
| 87 | Unraveling the Charge Storage Mechanism of $\text{Ti}_3\text{C}_2\text{T}_x$ MXene Electrode in Acidic Electrolyte. <i>ACS Energy Letters</i> , 2020, 5, 2873-2880. | 17.4 | 129 |
| 88 | Alkali Ions Pre-intercalated Layered MnO_2 Nanosheet for Zinc Ions Storage. <i>Advanced Energy Materials</i> , 2021, 11, 2101287. | 19.5 | 120 |
| 89 | Ultrafast charge/discharge characteristics of a nanosized core-shell structured LiFePO_4 material for hybrid supercapacitor applications. <i>Energy and Environmental Science</i> , 2016, 9, 2143-2151. | 30.8 | 117 |
| 90 | Electrochemical Kinetic Study of LiFePO_4 Using Cavity Microelectrode. <i>Journal of the Electrochemical Society</i> , 2011, 158, A1090. | 2.9 | 114 |

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|-----|---|------|-----------|
| 91 | Graphene-like carbide derived carbon for high-power supercapacitors. Nano Energy, 2015, 12, 197-206. | 16.0 | 114 |
| 92 | A Nonaqueous Asymmetric Hybrid Li ₄ Ti ₅ O ₁₂ /Poly(fluorophenylthiophene) Energy Storage Device. Journal of the Electrochemical Society, 2002, 149, A302. | 2.9 | 111 |
| 93 | Electrochemical study of pseudocapacitive behavior of Ti ₃ C ₂ T _x MXene material in aqueous electrolytes. Energy Storage Materials, 2019, 18, 456-461. | 18.0 | 111 |
| 94 | On-chip micro-supercapacitors for operation in a wide temperature range. Electrochemistry Communications, 2013, 36, 53-56. | 4.7 | 110 |
| 95 | Hybrid Supercapacitors Based on Activated Carbons and Conducting Polymers. Journal of the Electrochemical Society, 2001, 148, A1130. | 2.9 | 109 |
| 96 | Capacitive deionization concept based on suspension electrodes without ion exchange membranes. Electrochemistry Communications, 2014, 43, 18-21. | 4.7 | 109 |
| 97 | Exfoliation and Delamination of Ti ₃ C ₂ T _x MXene Prepared via Molten Salt Etching Route. ACS Nano, 2022, 16, 111-118. | 14.6 | 107 |
| 98 | Non-Aqueous Li-Based Redox Flow Batteries. Journal of the Electrochemical Society, 2012, 159, A1360-A1367. | 2.9 | 103 |
| 99 | Anionic redox chemistry in Na-rich Na ₂ Ru _{1-x} Sn _y O ₃ positive electrode material for Na-ion batteries. Electrochemistry Communications, 2015, 53, 29-32. | 4.7 | 103 |
| 100 | Interlayer gap widened δ -phase molybdenum trioxide as high-rate anodes for dual-ion-intercalation energy storage devices. Nature Communications, 2020, 11, 1348. | 12.8 | 100 |
| 101 | Activated carbon-carbon nanotube composite porous film for supercapacitor applications. Materials Research Bulletin, 2006, 41, 478-484. | 5.2 | 99 |
| 102 | Ion counting in supercapacitor electrodes using NMR spectroscopy. Faraday Discussions, 2014, 176, 49-68. | 3.2 | 95 |
| 103 | A SAXS outlook on disordered carbonaceous materials for electrochemical energy storage. Energy Storage Materials, 2019, 21, 162-173. | 18.0 | 95 |
| 104 | Li-ion storage properties of two-dimensional titanium-carbide synthesized via fast one-pot method in air atmosphere. Nature Communications, 2021, 12, 5085. | 12.8 | 88 |
| 105 | Direct electrodeposition of aluminium nano-rods. Electrochemistry Communications, 2008, 10, 1467-1470. | 4.7 | 86 |
| 106 | Relationship between the carbon nano-onions (CNOs) surface chemistry/defects and their capacitance in aqueous and organic electrolytes. Carbon, 2016, 105, 628-637. | 10.3 | 84 |
| 107 | Ionogel-based solid-state supercapacitor operating over a wide range of temperature. Electrochimica Acta, 2016, 206, 490-495. | 5.2 | 84 |
| 108 | Characterization of commercial supercapacitors for low temperature applications. Journal of Power Sources, 2012, 219, 235-239. | 7.8 | 82 |

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|-----|--|------|-----------|
| 109 | Sparsely Pillared Graphene Materials for High-Performance Supercapacitors: Improving Ion Transport and Storage Capacity. ACS Nano, 2019, 13, 1443-1453. | 14.6 | 81 |
| 110 | MXenes as High-Rate Electrodes for Energy Storage. Trends in Chemistry, 2020, 2, 654-664. | 8.5 | 81 |
| 111 | Enhanced Electrochemical Performance of Ultracentrifugation-Derived nc-Li ₃ VO ₄ /MWCNT Composites for Hybrid Supercapacitors. ACS Nano, 2016, 10, 5398-5404. | 14.6 | 78 |
| 112 | Nuclear magnetic resonance study of ion adsorption on microporous carbide-derived carbon. Physical Chemistry Chemical Physics, 2013, 15, 7722. | 2.8 | 77 |
| 113 | Ordered mesoporous silicon carbide-derived carbon for high-power supercapacitors. Electrochemistry Communications, 2013, 34, 109-112. | 4.7 | 75 |
| 114 | Facile and Scalable Preparation of Ruthenium Oxide-Based Flexible Micro-Supercapacitors. Advanced Energy Materials, 2020, 10, 1903136. | 19.5 | 74 |
| 115 | Electrode compositions for carbon power supercapacitors. Journal of Power Sources, 1999, 80, 149-155. | 7.8 | 73 |
| 116 | Capacitance of Nanoporous Carbon-Based Supercapacitors Is a Trade-Off between the Concentration and the Separability of the Ions. Journal of Physical Chemistry Letters, 2016, 7, 4015-4021. | 4.6 | 72 |
| 117 | 3D rGO aerogel with superior electrochemical performance for K ⁺ Ion battery. Energy Storage Materials, 2019, 19, 306-313. | 18.0 | 70 |
| 118 | Charge Storage Mechanisms of Single-Layer Graphene in Ionic Liquid. Journal of the American Chemical Society, 2019, 141, 16559-16563. | 18.7 | 67 |
| 119 | Combining Electrochemistry and Metallurgy for New Electrode Designs in Li-Ion Batteries. Chemistry of Materials, 2005, 17, 5041-5047. | 6.7 | 66 |
| 120 | High capacitance of coarse-grained carbide derived carbon electrodes. Journal of Power Sources, 2016, 306, 32-41. | 7.8 | 65 |
| 121 | Wafer-level fabrication process for fully encapsulated micro-supercapacitors with high specific energy. Microsystem Technologies, 2012, 18, 467-473. | 2.0 | 64 |
| 122 | Graphene-Based Supercapacitors Using Eutectic Ionic Liquid Mixture Electrolyte. Electrochimica Acta, 2016, 206, 446-451. | 5.2 | 63 |
| 123 | Polypyrrole-Fe ₂ O ₃ nanohybrid materials for electrochemical storage. Journal of Solid State Electrochemistry, 2006, 11, 398-406. | 2.5 | 62 |
| 124 | Non-aqueous gel polymer electrolyte with phosphoric acid ester and its application for quasi solid-state supercapacitors. Journal of Power Sources, 2015, 274, 1147-1154. | 7.8 | 62 |
| 125 | Multi-scale modelling of supercapacitors: From molecular simulations to a transmission line model. Journal of Power Sources, 2016, 326, 680-685. | 7.8 | 62 |
| 126 | Steric effects in adsorption of ions from mixed electrolytes into microporous carbon. Electrochemistry Communications, 2012, 15, 63-65. | 4.7 | 61 |

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|-----|--|------|-----------|
| 127 | Self-supported binder-free hard carbon electrodes for sodium-ion batteries: insights into their sodium storage mechanisms. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5558-5571. | 10.3 | 60 |
| 128 | Ultrafast Nanocrystalline $\text{TiO}_2(\text{B})$ /Carbon Nanotube Hyperdispersion Prepared via Combined Ultracentrifugation and Hydrothermal Treatments for Hybrid Supercapacitors. <i>Advanced Materials</i> , 2016, 28, 6751-6757. | 21.0 | 58 |
| 129 | High power density aqueous hybrid supercapacitor combining activated carbon and highly conductive spinel cobalt oxide. <i>Journal of Power Sources</i> , 2016, 331, 277-284. | 7.8 | 58 |
| 130 | Investigating the n- and p-Type Electrolytic Charging of Colloidal Nanoplatelets. <i>Journal of Physical Chemistry C</i> , 2015, 119, 21795-21799. | 3.1 | 57 |
| 131 | Titanium Carbide MXene Shows an Electrochemical Anomaly in Water-in-Salt Electrolytes. <i>ACS Nano</i> , 2021, 15, 15274-15284. | 14.6 | 56 |
| 132 | Modification of Al Current Collector/Active Material Interface for Power Improvement of Electrochemical Capacitor Electrodes. <i>Journal of the Electrochemical Society</i> , 2006, 153, A649. | 2.9 | 55 |
| 133 | MnO ₂ -coated Ni nanorods: Enhanced high rate behavior in pseudo-capacitive supercapacitor. <i>Electrochimica Acta</i> , 2010, 55, 7454-7459. | 5.2 | 55 |
| 134 | Microporous Carbon-Based Electrical Double Layer Capacitor Operating at High Temperature in Ionic Liquid Electrolyte. <i>Electrochemical and Solid-State Letters</i> , 2011, 14, A174. | 2.2 | 54 |
| 135 | Understanding of carbon-based supercapacitors ageing mechanisms by electrochemical and analytical methods. <i>Journal of Power Sources</i> , 2017, 366, 123-130. | 7.8 | 54 |
| 136 | Future Directions for Electrochemical Capacitors. <i>ACS Energy Letters</i> , 2021, 6, 4311-4316. | 17.4 | 53 |
| 137 | Proton conducting Gel Polymer Electrolytes for supercapacitor applications. <i>Electrochimica Acta</i> , 2017, 242, 31-37. | 5.2 | 52 |
| 138 | Hard carbon key properties allow for the achievement of high Coulombic efficiency and high volumetric capacity in Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 1743-1758. | 10.3 | 52 |
| 139 | The good reactivity of lithium with nanostructured copper phosphide. <i>Journal of Materials Chemistry</i> , 2008, 18, 5956. | 6.7 | 51 |
| 140 | Tracking Ionic Rearrangements and Interpreting Dynamic Volumetric Changes in Two-Dimensional Metal Carbide Supercapacitors: A Molecular Dynamics Simulation Study. <i>ChemSusChem</i> , 2018, 11, 1892-1899. | 6.8 | 50 |
| 141 | Computational Insights into Charge Storage Mechanisms of Supercapacitors. <i>Energy and Environmental Materials</i> , 2020, 3, 235-246. | 12.8 | 49 |
| 142 | Electrode optimisation for carbon power supercapacitors. <i>Journal of Power Sources</i> , 1999, 79, 37-42. | 7.8 | 48 |
| 143 | Effect of the carbon microporous structure on the capacitance of aqueous supercapacitors. <i>Energy Storage Materials</i> , 2019, 21, 190-195. | 18.0 | 48 |
| 144 | Chemical synthesis and characterization of fluorinated polyphenylthiophenes: application to energy storage. <i>Synthetic Metals</i> , 2001, 123, 311-319. | 3.9 | 47 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 145 | Electrochemical Method for Direct Deposition of Nanometric Bismuth and Its Electrochemical Properties vs Li. <i>Electrochemical and Solid-State Letters</i> , 2008, 11, E5. | 2.2 | 47 |
| 146 | Understanding Battery Interfaces by Combined Characterization and Simulation Approaches: Challenges and Perspectives. <i>Advanced Energy Materials</i> , 2022, 12, . | 19.5 | 46 |
| 147 | Sputtered Titanium Carbide Thick Film for High Areal Energy on Chip Carbon-Based Micro-Supercapacitors. <i>Advanced Functional Materials</i> , 2017, 27, 1606813. | 14.9 | 45 |
| 148 | The tin effect in lead-calcium alloys. <i>Journal of Power Sources</i> , 1997, 67, 61-67. | 7.8 | 44 |
| 149 | Solvent-Free Electrolytes for Electrical Double Layer Capacitors. <i>Journal of the Electrochemical Society</i> , 2015, 162, A5037-A5040. | 2.9 | 44 |
| 150 | Possible improvements in making carbon electrodes for organic supercapacitors. <i>Journal of Power Sources</i> , 1999, 79, 238-241. | 7.8 | 43 |
| 151 | Designing ionic channels in novel carbons for electrochemical energy storage. <i>National Science Review</i> , 2020, 7, 191-201. | 9.5 | 42 |
| 152 | Laser-scribed Ru organometallic complex for the preparation of RuO ₂ micro-supercapacitor electrodes on flexible substrate. <i>Electrochimica Acta</i> , 2018, 281, 816-821. | 5.2 | 41 |
| 153 | Synthesis of T-Nb ₂ O ₅ thin-films deposited by Atomic Layer Deposition for miniaturized electrochemical energy storage devices. <i>Energy Storage Materials</i> , 2019, 16, 581-588. | 18.0 | 40 |
| 154 | Ionic Liquids under Confinement: From Systematic Variations of the Ion and Pore Sizes toward an Understanding of the Structure and Dynamics in Complex Porous Carbons. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 1789-1798. | 8.0 | 39 |
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