## **Thierry Brousse**

List of Publications by Year in descending order

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THIEDDY RDOUSSE

| #  | Article  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Charge Storage Mechanism of MnO2Electrode Used in Aqueous Electrochemical Capacitor. Chemistry of Materials, 2004, 16, 3184-3190.  | 6.7  | 2,436     |
| 2  | To Be or Not To Be Pseudocapacitive?. Journal of the Electrochemical Society, 2015, 162, A5185-A5189.  | 2.9  | 2,085     |
| 3  | Carbon-based composite materials for supercapacitor electrodes: a review. Journal of Materials<br>Chemistry A, 2017, 5, 12653-12672.   | 10.3 | 1,152     |
| 4  | Influence of Microstucture on the Charge Storage Properties of Chemically Synthesized Manganese<br>Dioxide. Chemistry of Materials, 2002, 14, 3946-3952.   | 6.7  | 913       |
| 5  | Microsupercapacitors as miniaturized energy-storage components for on-chip electronics. Nature<br>Nanotechnology, 2017, 12, 7-15.  | 31.5 | 753       |
| 6  | Crystalline MnO[sub 2] as Possible Alternatives to Amorphous Compounds in Electrochemical Supercapacitors. Journal of the Electrochemical Society, 2006, 153, A2171.   | 2.9  | 619       |
| 7  | Nanostructured transition metal oxides for aqueous hybrid electrochemical supercapacitors. Applied<br>Physics A: Materials Science and Processing, 2006, 82, 599-606.  | 2.3  | 575       |
| 8  | Long-term cycling behavior of asymmetric activated carbon/MnO2 aqueous electrochemical supercapacitor. Journal of Power Sources, 2007, 173, 633-641.   | 7.8  | 453       |
| 9  | Asymmetric electrochemical capacitors—Stretching the limits of aqueous electrolytes. MRS Bulletin, 2011, 36, 513-522.  | 3.5  | 368       |
| 10 | Amorphous silicon as a possible anode material for Li-ion batteries. Journal of Power Sources, 1999, 81-82, 233-236.   | 7.8  | 344       |
| 11 | Variation of the MnO <sub>2</sub> Birnessite Structure upon Charge/Discharge in an Electrochemical<br>Supercapacitor Electrode in Aqueous Na <sub>2</sub> SO <sub>4</sub> Electrolyte. Journal of Physical<br>Chemistry C, 2008, 112, 7270-7277. | 3.1  | 332       |
| 12 | Thinâ€Film Crystalline SnO2â€Lithium Electrodes. Journal of the Electrochemical Society, 1998, 145, 1-4.   | 2.9  | 327       |
| 13 | Manganese Oxides: Battery Materials Make the Leap to Electrochemical Capacitors. Electrochemical Society Interface, 2008, 17, 49-52.   | 0.4  | 317       |
| 14 | A Hybrid Activated Carbon-Manganese Dioxide Capacitor using a Mild Aqueous Electrolyte. Journal of the Electrochemical Society, 2004, 151, A614.   | 2.9  | 314       |
| 15 | Challenges and prospects of 3D micro-supercapacitors for powering the internet of things. Energy and Environmental Science, 2019, 12, 96-115.  | 30.8 | 297       |
| 16 | Safe and recyclable lithium-ion capacitors using sacrificial organic lithium salt. Nature Materials, 2018, 17, 167-173.  | 27.5 | 229       |
| 17 | Aluminum negative electrode in lithium ion batteries. Journal of Power Sources, 2001, 97-98, 185-187.  | 7.8  | 228       |
| 18 | A Hybrid Fe[sub 3]O[sub 4]-MnO[sub 2] Capacitor in Mild Aqueous Electrolyte. Electrochemical and Solid-State Letters, 2003, 6, A244.   | 2.2  | 200       |

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|----|--|------|-----------|
| 19 | Perspective—A Guideline for Reporting Performance Metrics with Electrochemical Capacitors: From Electrode Materials to Full Devices. Journal of the Electrochemical Society, 2017, 164, A1487-A1488.             | 2.9  | 198       |
| 20 | Performance and stability of electrochemical capacitor based on anthraquinone modified activated carbon. Journal of Power Sources, 2011, 196, 4117-4122.   | 7.8  | 182       |
| 21 | An investigation of nanostructured thin film α-MoO3 based supercapacitor electrodes in an aqueous electrolyte. Electrochimica Acta, 2013, 91, 253-260.   | 5.2  | 177       |
| 22 | Titanium nitride films for micro-supercapacitors: Effect of surface chemistry and film morphology on the capacitance. Journal of Power Sources, 2015, 300, 525-532.  | 7.8  | 152       |
| 23 | Effect of molecular grafting on the pore size distribution and the double layer capacitance of activated carbon for electrochemical double layer capacitors. Carbon, 2011, 49, 1340-1348.                        | 10.3 | 147       |
| 24 | Highâ€Resolution Electron Microscopy Investigation of Capacity Fade in SnO2 Electrodes for Lithiumâ€lon<br>Batteries. Journal of the Electrochemical Society, 1999, 146, 2472-2476.                              | 2.9  | 138       |
| 25 | TiO2 (B)/activated carbon non-aqueous hybrid system for energy storage. Journal of Power Sources,<br>2006, 158, 571-577.   | 7.8  | 133       |
| 26 | Hierarchical nanocomposite electrodes based on titanium nitride and carbon nanotubes for micro-supercapacitors. Nano Energy, 2014, 7, 104-113.   | 16.0 | 132       |
| 27 | Advances on the use of diazonium chemistry for functionalization of materials used in energy storage systems. Carbon, 2015, 92, 362-381.   | 10.3 | 132       |
| 28 | Chemical Coupling of Carbon Nanotubes and Silicon Nanoparticles for Improved Negative Electrode<br>Performance in Lithiumâ€lon Batteries. Advanced Functional Materials, 2011, 21, 3524-3530.                    | 14.9 | 124       |
| 29 | Graphiteâ€Grafted Silicon Nanocomposite as a Negative Electrode for Lithiumâ€ <del>l</del> on Batteries. Advanced<br>Materials, 2009, 21, 4735-4741.   | 21.0 | 122       |
| 30 | Atomic Layer Deposition of Functional Layers for on Chip 3D Liâ€ <del>l</del> on All Solid State Microbattery.<br>Advanced Energy Materials, 2017, 7, 1601402.   | 19.5 | 119       |
| 31 | Ultrafast charge–discharge characteristics of a nanosized core–shell structured<br>LiFePO <sub>4</sub> material for hybrid supercapacitor applications. Energy and Environmental<br>Science, 2016, 9, 2143-2151. | 30.8 | 117       |
| 32 | TiO <sub>2</sub> (B) Nanoribbons As Negative Electrode Material for Lithium Ion Batteries with High<br>Rate Performance. Inorganic Chemistry, 2010, 49, 8457-8464.   | 4.0  | 114       |
| 33 | Ni(OH)2 and NiO Based Composites: Battery Type Electrode Materials for Hybrid Supercapacitor<br>Devices. Materials, 2018, 11, 1178.  | 2.9  | 107       |
| 34 | Toward fast and cost-effective ink-jet printing of solid electrolyte for lithium microbatteries. Journal of Power Sources, 2015, 274, 1085-1090.   | 7.8  | 105       |
| 35 | Strategies to Improve the Performance of Carbon/Carbon Capacitors in Salt Aqueous Electrolytes.<br>Journal of the Electrochemical Society, 2015, 162, A5148-A5157.   | 2.9  | 103       |
| 36 | Air stable copper phosphide (Cu3P): a possible negative electrode material for lithium batteries.<br>Electrochemistry Communications, 2004, 6, 263-267.  | 4.7  | 101       |

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|----|---|------|-----------|
| 37 | VN thin films as electrode materials for electrochemical capacitors. Electrochimica Acta, 2014, 141, 203-211.   | 5.2  | 98        |
| 38 | New anode systems for lithium ion cells. Journal of Power Sources, 2001, 94, 169-174.   | 7.8  | 95        |
| 39 | Ink-jet printed porous composite LiFePO 4 electrode from aqueous suspension for microbatteries.<br>Journal of Power Sources, 2015, 287, 261-268.  | 7.8  | 95        |
| 40 | Asymmetric electrochemical capacitor microdevice designed with vanadium nitride and nickel oxide thin film electrodes. Electrochemistry Communications, 2013, 28, 104-106.  | 4.7  | 93        |
| 41 | All oxide solid-state lithium-ion cells. Journal of Power Sources, 1997, 68, 412-415.   | 7.8  | 89        |
| 42 | Comparative Performances of Birnessite and Cryptomelane MnO <sub>2</sub> as Electrode Material in<br>Neutral Aqueous Lithium Salt for Supercapacitor Application. Journal of Physical Chemistry C, 2013,<br>117, 7408-7422. | 3.1  | 88        |
| 43 | Improvement of the Thermal Stability of LiNi[sub 0.8]Co[sub 0.2]O[sub 2] Cathode by a SiO[sub x]<br>Protective Coating. Journal of the Electrochemical Society, 2004, 151, A922.  | 2.9  | 85        |
| 44 | Application of sputtered ruthenium nitride thin films as electrode material for energy-storage devices. Scripta Materialia, 2013, 68, 659-662.  | 5.2  | 85        |
| 45 | Cu3P as anode material for lithium ion battery: powder morphology and electrochemical performances. Journal of Power Sources, 2004, 136, 80-87.   | 7.8  | 84        |
| 46 | Titanium vanadium nitride electrode for micro-supercapacitors. Electrochemistry Communications, 2017, 77, 40-43.  | 4.7  | 79        |
| 47 | Stable high-voltage aqueous pseudocapacitive energy storage device with slow self-discharge. Nano<br>Energy, 2019, 64, 103961.  | 16.0 | 78        |
| 48 | Novel insights into the charge storage mechanism in pseudocapacitive vanadium nitride thick films<br>for high-performance on-chip micro-supercapacitors. Energy and Environmental Science, 2020, 13,<br>949-957.            | 30.8 | 78        |
| 49 | Lithium rhenium( <scp>vii</scp> ) oxide as a novel material for graphite pre-lithiation in high performance lithium-ion capacitors. Journal of Materials Chemistry A, 2016, 4, 12609-12615.                                 | 10.3 | 77        |
| 50 | High Areal Energy 3Dâ€Interdigitated Microâ€Supercapacitors in Aqueous and Ionic Liquid Electrolytes.<br>Advanced Materials Technologies, 2017, 2, 1700126.   | 5.8  | 77        |
| 51 | Highly doped silicon nanowires based electrodes for micro-electrochemical capacitor applications.<br>Electrochemistry Communications, 2012, 25, 109-111.  | 4.7  | 75        |
| 52 | Composite negative electrodes for lithium ion cells. Solid State Ionics, 1998, 113-115, 51-56.  | 2.7  | 74        |
| 53 | Carbon/PbO2 asymmetric electrochemical capacitor based on methanesulfonic acid electrolyte.<br>Electrochimica Acta, 2011, 56, 8122-8128.  | 5.2  | 73        |
| 54 | Antimony doping effect on the electrochemical behavior of SnO2 thin film electrodes. Journal of Power Sources, 2001, 97-98, 232-234.  | 7.8  | 72        |

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|----|--|------|-----------|
| 55 | Electrochemical Reaction Between Lithium and β-Quartz GeO[sub 2]. Electrochemical and Solid-State<br>Letters, 2004, 7, A278.   | 2.2  | 71        |
| 56 | Spontaneous grafting of 9,10-phenanthrenequinone on porous carbon as an active electrode material<br>in an electrochemical capacitor in an alkaline electrolyte. Journal of Materials Chemistry A, 2015, 3,<br>6146-6156.                    | 10.3 | 70        |
| 57 | Supercapacitor behavior of new substituted manganese dioxides. Journal of Power Sources, 2007, 165, 651-655.   | 7.8  | 69        |
| 58 | Titanium and vanadium oxynitride powders as pseudo-capacitive materials for electrochemical capacitors. Electrochimica Acta, 2012, 82, 257-262.  | 5.2  | 69        |
| 59 | Siliconâ€Microtube Scaffold Decorated with Anatase TiO <sub>2</sub> as a Negative Electrode for a 3D<br>Litiumâ€lon Microbattery. Advanced Energy Materials, 2014, 4, 1301612.   | 19.5 | 67        |
| 60 | Thin films of pure vanadium nitride: Evidence for anomalous non-faradaic capacitance. Journal of<br>Power Sources, 2016, 324, 439-446.   | 7.8  | 67        |
| 61 | Multi-level reduced-order thermal modeling of electrochemical capacitors. Journal of Power<br>Sources, 2006, 157, 630-640.   | 7.8  | 66        |
| 62 | Nanosiliconâ€Based Thick Negative Composite Electrodes for Lithium Batteries with Graphene as<br>Conductive Additive. Advanced Energy Materials, 2013, 3, 1351-1357.   | 19.5 | 66        |
| 63 | Nanocrystalline FeWO4 as a pseudocapacitive electrode material for high volumetric energy density supercapacitors operated in an aqueous electrolyte. Electrochemistry Communications, 2015, 57, 61-64.                                      | 4.7  | 66        |
| 64 | High temperature solid-state supercapacitor designed with ionogel electrolyte. Energy Storage<br>Materials, 2019, 21, 439-445.   | 18.0 | 66        |
| 65 | Electrochemical study of anthraquinone groups, grafted by the diazonium chemistry, in different<br>aqueous media-relevance for the development of aqueous hybrid electrochemical capacitor.<br>Electrochimica Acta, 2012, 82, 250-256.       | 5.2  | 65        |
| 66 | On Chip Interdigitated Micro‣upercapacitors Based on Sputtered Bifunctional Vanadium Nitride Thin<br>Films with Finely Tuned Inter―and Intracolumnar Porosities. Advanced Materials Technologies, 2018, 3,<br>1800036.                       | 5.8  | 65        |
| 67 | Sputtered tungsten nitride films as pseudocapacitive electrode for on chip micro-supercapacitors.<br>Energy Storage Materials, 2019, 20, 243-252.  | 18.0 | 65        |
| 68 | Suitable Conditions for the Use of Vanadium Nitride as an Electrode for Electrochemical Capacitor.<br>Journal of the Electrochemical Society, 2016, 163, A1077-A1082.  | 2.9  | 64        |
| 69 | Asymmetric micro-supercapacitors based on electrodeposited Ruo2 and sputtered VN films. Energy Storage Materials, 2021, 37, 207-214.   | 18.0 | 64        |
| 70 | Sprayed and thermally evaporated SnO2 thin films for ethanol sensors. Sensors and Actuators B:<br>Chemical, 1996, 31, 77-79.   | 7.8  | 62        |
| 71 | Role of nitrogen doping at the surface of titanium nitride thin films towards capacitive charge storage enhancement. Journal of Power Sources, 2017, 359, 349-354.   | 7.8  | 62        |
| 72 | Synthesis, characterization and electrochemical properties of copper phosphide (Cu3P) thick films prepared by solid-state reaction at low temperature: a probable anode for lithium ion batteries. Electrochimica Acta, 2005, 50, 4763-4770. | 5.2  | 61        |

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|----|--|------|-----------|
| 73 | Micro-ultracapacitors with highly doped silicon nanowires electrodes. Nanoscale Research Letters, 2013, 8, 38.   | 5.7  | 61        |
| 74 | Wide-voltage-window silicon nanowire electrodes for micro-supercapacitors via electrochemical surface oxidation in ionic liquid electrolyte. Electrochemistry Communications, 2014, 41, 31-34.                     | 4.7  | 61        |
| 75 | Electrodes based on nano-tree-like vanadium nitride and carbon nanotubes for micro-supercapacitors.<br>Journal of Materials Science and Technology, 2018, 34, 976-982.   | 10.7 | 61        |
| 76 | MnO <sub>2</sub> Thin Films on 3D Scaffold: Microsupercapacitor Electrodes Competing with "Bulk―<br>Carbon Electrodes. Advanced Energy Materials, 2015, 5, 1500680.  | 19.5 | 60        |
| 77 | Ultra-dense and highly doped SiNWs for micro-supercapacitors electrodes. Electrochimica Acta, 2014,<br>117, 159-163.   | 5.2  | 59        |
| 78 | Electrochemical study of aqueous asymmetric FeWO4/MnO2 supercapacitor. Journal of Power Sources, 2016, 326, 695-701.   | 7.8  | 59        |
| 79 | Non-stoichiometry in LiMn2O4 thin films by laser ablation. Solid State Ionics, 2001, 138, 213-219.   | 2.7  | 56        |
| 80 | Measuring time-dependent heat profiles of aqueous electrochemical capacitors under cycling.<br>Thermochimica Acta, 2011, 526, 1-8.   | 2.7  | 54        |
| 81 | LiMn2O4 thin films for lithium ion sensors. Solid State Ionics, 1998, 112, 249-254.  | 2.7  | 53        |
| 82 | Are tomorrow's micro-supercapacitors hidden in a forest of silicon nanotrees?. Journal of Power<br>Sources, 2014, 269, 740-746.  | 7.8  | 52        |
| 83 | Use of genetic algorithms for the simultaneous estimation of thin films thermal conductivity and contact resistances. International Journal of Heat and Mass Transfer, 2001, 44, 3973-3984.                        | 4.8  | 51        |
| 84 | Electrolytes for hybrid carbon–MnO2 electrochemical capacitors. Electrochimica Acta, 2010, 55,<br>7479-7483.   | 5.2  | 51        |
| 85 | The electrochemical generation of ferrate at pressed iron powder electrodes: effect of various operating parameters. Electrochimica Acta, 2003, 48, 1425-1433.   | 5.2  | 50        |
| 86 | Simpler and greener grafting method for improving the stability of anthraquinone-modified carbon electrode in alkaline media. Electrochimica Acta, 2014, 137, 447-453.   | 5.2  | 50        |
| 87 | Solder-reflow resistant solid-state micro-supercapacitors based on ionogels. Journal of Materials<br>Chemistry A, 2016, 4, 11835-11843.  | 10.3 | 50        |
| 88 | Electrochemical Performance of Carbon/MnO <sub>2</sub> Nanocomposites Prepared via Molecular<br>Bridging as Supercapacitor Electrode Materials. Journal of the Electrochemical Society, 2015, 162,<br>A5179-A5184. | 2.9  | 48        |
| 89 | Characterization of sprayed and sputter deposited LiCoO2 thin films for rechargeable microbatteries.<br>Journal of Power Sources, 1996, 63, 187-191.   | 7.8  | 46        |
| 90 | SnO2 negative electrode for lithium ion cell: in situ Mössbauer investigation of chemical changes<br>upon discharge. Journal of Solid State Chemistry, 2004, 177, 4332-4340.                                       | 2.9  | 46        |

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|-----|---|------|-----------|
| 91  | All Solid-State Symmetrical Activated Carbon Electrochemical Double Layer Capacitors Designed with<br>Ionogel Electrolyte. ECS Electrochemistry Letters, 2014, 3, A112-A115.  | 1.9  | 45        |
| 92  | Sr- and Fe-substituted LaMnO3 Perovskite: Fundamental insight and possible use in asymmetric hybrid supercapacitor. Energy Storage Materials, 2022, 45, 119-129.  | 18.0 | 44        |
| 93  | In situ X-ray diffraction investigation of zinc based electrode in Ni–Zn secondary batteries.<br>Electrochimica Acta, 2013, 109, 110-116.   | 5.2  | 43        |
| 94  | Use of sacrificial lithium nickel oxide for loading graphitic anode in Li-ion capacitors. Electrochimica<br>Acta, 2016, 206, 440-445.   | 5.2  | 43        |
| 95  | Electrochemical Template Synthesis of Ordered Lead Dioxide Nanowires. Journal of the Electrochemical Society, 2009, 156, A645.  | 2.9  | 42        |
| 96  | Tuning silicon nanowires doping level and morphology for highly efficient micro-supercapacitors.<br>Nano Energy, 2014, 5, 20-27.  | 16.0 | 41        |
| 97  | Ultra-high areal capacitance and high rate capability RuO2 thin film electrodes for 3D micro-supercapacitors. Energy Storage Materials, 2021, 42, 259-267.  | 18.0 | 41        |
| 98  | Investigation of cavity microelectrode technique for electrochemical study with manganese dioxides.<br>Electrochimica Acta, 2012, 86, 268-276.  | 5.2  | 40        |
| 99  | On chip MnO2-based 3D micro-supercapacitors with ultra-high areal energy density. Energy Storage<br>Materials, 2021, 38, 520-527.   | 18.0 | 39        |
| 100 | Electrochemical preparation and characterization of Birnessite-type layered manganese oxide films.<br>Journal of Physics and Chemistry of Solids, 2006, 67, 1351-1354.  | 4.0  | 38        |
| 101 | Synthesis of nanosized Si particles via a mechanochemical solid–liquid reaction and application in<br>Li-ion batteries. Solid State Ionics, 2007, 178, 1297-1303.   | 2.7  | 38        |
| 102 | Chemical Modification of Graphene Oxide through Diazonium Chemistry and Its Influence on the<br>Structure–Property Relationships of Graphene Oxide–Iron Oxide Nanocomposites. Chemistry - A<br>European Journal, 2015, 21, 12465-12474. | 3.3  | 38        |
| 103 | Silicon nanowires and nanotrees: elaboration and optimization of new 3D architectures for high performance on-chip supercapacitors. RSC Advances, 2016, 6, 81017-81027.   | 3.6  | 38        |
| 104 | In situ redox functionalization of composite electrodes for high power–high energy electrochemical storage systems via a non-covalent approach. Energy and Environmental Science, 2012, 5, 5379-5386.                                   | 30.8 | 37        |
| 105 | Cascadeâ€Type Prelithiation Approach for Liâ€lon Capacitors. Advanced Energy Materials, 2019, 9, 1900078.   | 19.5 | 37        |
| 106 | Valence electron energy-loss spectroscopy of silicon negative electrodes for lithium batteries.<br>Physical Chemistry Chemical Physics, 2010, 12, 220-226.  | 2.8  | 36        |
| 107 | Determination of the Quinone-loading of a Modified Carbon Powder-based Electrode for Electrochemical Capacitor. Electrochemistry, 2013, 81, 863-866.  | 1.4  | 36        |
| 108 | Calorimetric measurement of the heat generated by a Double-Layer Capacitor cell under cycling.<br>Thermochimica Acta, 2010, 510, 53-60.   | 2.7  | 35        |

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|-----|---|------|-----------|
| 109 | Modeling pseudo capacitance of manganese dioxide. Electrochimica Acta, 2012, 67, 41-49.   | 5.2  | 35        |
| 110 | Tuning the Cation Ordering with the Deposition Pressure in Sputtered<br>LiMn <sub>1.5</sub> Ni <sub>0.5</sub> O <sub>4</sub> Thin Film Deposited on Functional Current<br>Collectors for Li-Ion Microbattery Applications. Chemistry of Materials, 2017, 29, 6044-6057. | 6.7  | 35        |
| 111 | Achieving on chip micro-supercapacitors based on CrN deposited by bipolar magnetron sputtering at glancing angle. Electrochimica Acta, 2019, 324, 134890.   | 5.2  | 35        |
| 112 | Synthesis, Characterization and Electrochemical Studies of Active Materials for Sodium Ion Batteries.<br>ECS Transactions, 2011, 35, 91-98.   | 0.5  | 34        |
| 113 | Thermal conductivity of ZrO thin films. International Journal of Thermal Sciences, 2000, 39, 537-543.   | 4.9  | 33        |
| 114 | EQCM study of electrodeposited PbO2: Investigation of the gel formation and discharge mechanisms.<br>Electrochimica Acta, 2009, 54, 7382-7388.  | 5.2  | 32        |
| 115 | Aqueous energy-storage cells based on activated carbon and LiMn 2 O 4 electrodes. Journal of Power Sources, 2017, 354, 148-156.   | 7.8  | 32        |
| 116 | Atomic Layer Deposition Alumina-Passivated Silicon Nanowires: Probing the Transition from<br>Electrochemical Double-Layer Capacitor to Electrolytic Capacitor. ACS Applied Materials &<br>Interfaces, 2017, 9, 13761-13769.   | 8.0  | 32        |
| 117 | Metal oxide anodes for Li-ion batteries. Ionics, 1997, 3, 332-337.  | 2.4  | 31        |
| 118 | Search for suitable matrix for the use of tin-based anodes in lithium ion batteries. Solid State Ionics, 2000, 135, 87-93.  | 2.7  | 31        |
| 119 | New generation of hybrid carbon/Ni(OH)2 electrochemical capacitor using functionalized carbon electrode. Journal of Power Sources, 2016, 326, 702-710.  | 7.8  | 31        |
| 120 | Improving the Volumetric Energy Density of Supercapacitors. Electrochimica Acta, 2016, 206, 458-463.  | 5.2  | 31        |
| 121 | Transparent electrochemical capacitor based on electrodeposited MnO2 thin film electrodes and gel-type electrolyte. Electrochemistry Communications, 2009, 11, 1259-1261.   | 4.7  | 30        |
| 122 | Influence of particle size and matrix in "metal―anodes for Li-ion cells. Journal of Power Sources,<br>2001, 97-98, 188-190.   | 7.8  | 29        |
| 123 | Nanosized α-LiFeO2 as electrochemical supercapacitor electrode in neutral sulfate electrolytes.<br>Electrochimica Acta, 2010, 55, 7511-7515.  | 5.2  | 29        |
| 124 | Doping of Cobalt into Multilayered Manganese Oxide for Improved Pseudocapacitive Properties.<br>Journal of the Electrochemical Society, 2010, 157, A1067.   | 2.9  | 29        |
| 125 | Toward fully organic rechargeable charge storage devices based on carbon electrodes grafted with redox molecules. Journal of Materials Chemistry A, 2014, 2, 8599-8602.   | 10.3 | 29        |
| 126 | Anthraquinone modification of microporous carbide derived carbon films for on-chip micro-supercapacitors applications. Electrochimica Acta, 2017, 246, 391-398.   | 5.2  | 29        |

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|-----|--|------|-----------|
| 127 | Electrochemical study of H3PMo12 retention on Vulcan carbon grafted with NH2 and OH groups.<br>Journal of Solid State Electrochemistry, 2016, 20, 67-79.   | 2.5  | 27        |
| 128 | Modification of activated carbons based on diazonium ions in situ produced from aminobenzene organic acid without addition of other acid. Journal of Materials Chemistry, 2011, 21, 12221.   | 6.7  | 26        |
| 129 | Morphology Effects on the Supercapacitive Electrochemical Performances of Iron Oxide/Reduced<br>Graphene Oxide Nanocomposites. ChemElectroChem, 2014, 1, 747-754.  | 3.4  | 26        |
| 130 | MnO2 as ink material for the fabrication of supercapacitor electrodes. Electrochimica Acta, 2015, 152, 520-529.  | 5.2  | 26        |
| 131 | The chemical changes occurring upon cycling of a SnO2 negative electrode for lithium ion cell: In situ Mössbauer investigation. Journal of Solid State Chemistry, 2006, 179, 476-485.  | 2.9  | 25        |
| 132 | Structural changes of a Li/S rechargeable cell in Lithium Metal Polymer technology. Journal of Power Sources, 2013, 241, 249-254.  | 7.8  | 25        |
| 133 | Sputtered Titanium Nitride: A Bifunctional Material for Li-Ion Microbatteries. Journal of the Electrochemical Society, 2015, 162, A493-A500.   | 2.9  | 25        |
| 134 | Materials for Electrochemical Capacitors. , 2017, , 495-561.   |      | 25        |
| 135 | Microstructure and metal–insulator transition of NdNiO3 thin films on various substrates. Thin Solid Films, 1999, 354, 50-54.  | 1.8  | 24        |
| 136 | Concept for Charge Storage in Electrochemical Capacitors with Functionalized Carbon Electrodes.<br>Electrochemical and Solid-State Letters, 2008, 11, A202.  | 2.2  | 24        |
| 137 | Spontaneous arylation of activated carbon from aminobenzene organic acids as source of diazonium<br>ions in mild conditions. Electrochimica Acta, 2013, 88, 680-687.   | 5.2  | 24        |
| 138 | Synthesis, characterization and thermal stability of Ni3P coatings on nickel. Materials Chemistry and Physics, 2005, 92, 534-539.  | 4.0  | 23        |
| 139 | Reactive sputtering of vanadium nitride thin films as pseudo-capacitor electrodes for high areal capacitance and cyclic stability. Journal of Materials Science: Materials in Electronics, 2018, 29, 13125-13131.  | 2.2  | 22        |
| 140 | Improved electro-grafting of nitropyrene onto onion-like carbon via in situ electrochemical reduction and polymerization: tailoring redox energy density of the supercapacitor positive electrode. Journal of Materials Chemistry A, 2017, 5, 1488-1494. | 10.3 | 21        |
| 141 | Reflow Soldering-Resistant Solid-State 3D Micro-Supercapacitors Based on Ionogel Electrolyte for<br>Powering the Internet of Things. Journal of the Electrochemical Society, 2020, 167, 100551.  | 2.9  | 20        |
| 142 | Growth by laser ablation of Ti-based oxide films with different valency states. Applied Physics A:<br>Materials Science and Processing, 1998, 67, 425-428.   | 2.3  | 19        |
| 143 | Electrochemical intercalation of lithium into the perovskite-type NbO2F: influence of the NbO2F particle size. Journal of Solid State Electrochemistry, 2001, 5, 1-7.  | 2.5  | 19        |
| 144 | Silicon/graphite nanocomposite electrodes prepared by low pressure chemical vapor deposition.<br>Journal of Power Sources, 2007, 174, 900-904.   | 7.8  | 19        |

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|-----|---|------|-----------|
| 145 | Electrochemical Capacitors: Fundamentals to Applications. Journal of the Electrochemical Society, 2015, 162, Y3-Y3.   | 2.9  | 19        |
| 146 | Polycationic oxides as potential electrode materials for aqueous-based electrochemical capacitors.<br>Current Opinion in Electrochemistry, 2018, 9, 87-94.  | 4.8  | 19        |
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