

# Thierry Brousse

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

211  
papers

16,889  
citations

56  
h-index

127  
g-index

232  
ext. papers

18,571  
ext. citations

7.3  
avg, IF

7.05  
L-index

#	Paper	IF	Citations
211	Sr- and Fe-substituted LaMnO <sub>3</sub> Perovskite: Fundamental insight and possible use in asymmetric hybrid supercapacitor. <i>Energy Storage Materials</i> , <b>2022</b> , 45, 119-129	19.4	3
210	Revisiting Rb <sub>2</sub> TiNb <sub>6</sub> O <sub>18</sub> as electrode materials for energy storage devices. <i>Electrochemistry Communications</i> , <b>2022</b> , 137, 107249	5.1	0
209	Investigating the Perovskite AgLaNbO as a High-Rate Negative Electrode for Li-Ion Batteries.. <i>Frontiers in Chemistry</i> , <b>2022</b> , 10, 873783	5	0
208	Experimental and Theoretical Study of the Effect of Functionalized Pyrene Polymerization on Carbon Electrode Surfaces for Electrochemical Storage. <i>Batteries and Supercaps</i> , <b>2021</b> , 4, 1018-1031	5.6	
207	Influence of ion implantation on the charge storage mechanism of vanadium nitride pseudocapacitive thin films. <i>Electrochemistry Communications</i> , <b>2021</b> , 125, 107016	5.1	3
206	Investigating the Cycling Stability of FeWO Pseudocapacitive Electrode Materials. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	3
205	Developing Effective Electrodes for Supercapacitors by Grafting of Trihydroxybenzene onto Activated Carbons. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 050520	3.9	2
204	Asymmetric micro-supercapacitors based on electrodeposited RuO <sub>2</sub> and sputtered VN films. <i>Energy Storage Materials</i> , <b>2021</b> , 37, 207-214	19.4	22
203	On chip MnO <sub>2</sub> -based 3D micro-supercapacitors with ultra-high areal energy density. <i>Energy Storage Materials</i> , <b>2021</b> , 38, 520-527	19.4	8
202	Electrode Design for MnO-Based Aqueous Electrochemical Capacitors: Influence of Porosity and Mass Loading. <i>Materials</i> , <b>2021</b> , 14,	3.5	5
201	Layered Vanadium Phosphates as Electrodes for Electrochemical Capacitors Part I: The Case of VOPO <sub>4</sub> ·2H <sub>2</sub> O. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 070531	3.9	1
200	Sodium borohydride (NaBH <sub>4</sub> ) as a high-capacity material for next-generation sodium-ion capacitors. <i>Open Chemistry</i> , <b>2021</b> , 19, 432-441	1.6	2
199	A First Outlook of Sputtered FeWO <sub>4</sub> Thin Films for Micro-Supercapacitor Electrodes. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 030524	3.9	2
198	Layered Vanadium Phosphates as Electrodes for Electrochemical Capacitors Part II: The Case of VOPO <sub>4</sub> ·TAB and K <sub>0.5</sub> VOPO <sub>4</sub> ·1.5H <sub>2</sub> O. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 090520	3.9	0
197	Ultra-high areal capacitance and high rate capability RuO <sub>2</sub> thin film electrodes for 3D micro-supercapacitors. <i>Energy Storage Materials</i> , <b>2021</b> , 42, 259-267	19.4	9
196	Methods On the Reliability of the Electrochemical Data Recorded on Nickel Foam in Alkaline Solution: The Illusive Surface Oxide Layer. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 120547	3.9	0
195	Reflow Soldering-Resistant Solid-State 3D Micro-Supercapacitors Based on Ionogel Electrolyte for Powering the Internet of Things. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 100551	3.9	11

194	Charge storage mechanism of $\beta$ -MnO <sub>2</sub> in protic and aprotic ionic liquid electrolytes. <i>Journal of Power Sources</i> , <b>2020</b> , 460, 228111	8.9	8
193	Novel insights into the charge storage mechanism in pseudocapacitive vanadium nitride thick films for high-performance on-chip micro-supercapacitors. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 949-957	35.4	41
192	Unveiling Pseudocapacitive Charge Storage Behavior in FeWO Electrode Material by Operando X-Ray Absorption Spectroscopy. <i>Small</i> , <b>2020</b> , 16, e2002855	11	10
191	Achieving on chip micro-supercapacitors based on CrN deposited by bipolar magnetron sputtering at glancing angle. <i>Electrochimica Acta</i> , <b>2019</b> , 324, 134890	6.7	14
190	Electrochemical study of asymmetric aqueous supercapacitors based on high density oxides: C/Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> and FeWO <sub>4</sub> /Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> . <i>Electrochimica Acta</i> , <b>2019</b> , 326, 134886	6.7	2
189	Challenges and prospects of 3D micro-supercapacitors for powering the internet of things. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 96-115	35.4	184
188	High temperature solid-state supercapacitor designed with ionogel electrolyte. <i>Energy Storage Materials</i> , <b>2019</b> , 21, 439-445	19.4	34
187	Cascade-Type Prelithiation Approach for Li-Ion Capacitors. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900078	21.8	31
186	Sputtered tungsten nitride films as pseudocapacitive electrode for on chip micro-supercapacitors. <i>Energy Storage Materials</i> , <b>2019</b> , 20, 243-252	19.4	32
185	Catechol-Modified Carbon Cloth as Hybrid Electrode for Energy Storage Devices. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A1147-A1153	3.9	9
184	Stable high-voltage aqueous pseudocapacitive energy storage device with slow self-discharge. <i>Nano Energy</i> , <b>2019</b> , 64, 103961	17.1	49
183	Aqueous Energy Storage Device Based on LiMn <sub>2</sub> O <sub>4</sub> (Spinel) Positive Electrode and Anthraquinone-Modified Carbon-Negative Electrode. <i>Energy Technology</i> , <b>2019</b> , 7, 1900589	3.5	4
182	Peculiar Li-storage mechanism at graphene edges in turbostratic carbon black and their application in high energy Li-ion capacitor. <i>Journal of Power Sources</i> , <b>2018</b> , 378, 628-635	8.9	10
181	Influence of surface chemistry and point defects in TiN based electrodes on electrochemical capacitive storage activity. <i>Scripta Materialia</i> , <b>2018</b> , 153, 59-62	5.6	5
180	Performance and limitations of Cu <sub>2</sub> O:Graphene composite electrode materials for aqueous hybrid electrochemical capacitors. <i>Electrochimica Acta</i> , <b>2018</b> , 279, 161-167	6.7	6
179	Investigation of Ba <sub>0.5</sub> Sr <sub>0.5</sub> CoxFe <sub>1-x</sub> O <sub>3-<math>\delta</math></sub> as a pseudocapacitive electrode material with high volumetric capacitance. <i>Electrochimica Acta</i> , <b>2018</b> , 271, 677-684	6.7	8
178	MnPO <sub>4</sub> ·H <sub>2</sub> O as Electrode Material for Electrochemical Capacitors. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A2349-A2356	3.9	9
177	Grafting of Quinones on Carbons as Active Electrode Materials in Electrochemical Capacitors. <i>Journal of the Brazilian Chemical Society</i> , <b>2018</b> ,	1.5	5

176	Ni(OH) <sub>2</sub> and NiO Based Composites: Battery Type Electrode Materials for Hybrid Supercapacitor Devices. <i>Materials</i> , <b>2018</b> , 11,	3.5	77
175	Reactive sputtering of vanadium nitride thin films as pseudo-capacitor electrodes for high areal capacitance and cyclic stability. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 13125-13131	3.1	14
174	Direct Hybridization of Polymer Exchange Membrane Surface Fuel Cell with Small Aqueous Supercapacitors. <i>Fuel Cells</i> , <b>2018</b> , 18, 299-305	2.9	8
173	On Chip Interdigitated Micro-Supercapacitors Based on Sputtered Bifunctional Vanadium Nitride Thin Films with Finely Tuned Inter- and Intracolumnar Porosities. <i>Advanced Materials Technologies</i> , <b>2018</b> , 3, 1800036	6.8	46
172	Safe and recyclable lithium-ion capacitors using sacrificial organic lithium salt. <i>Nature Materials</i> , <b>2018</b> , 17, 167-173	27	171
171	Electrodes based on nano-tree-like vanadium nitride and carbon nanotubes for micro-supercapacitors. <i>Journal of Materials Science and Technology</i> , <b>2018</b> , 34, 976-982	9.1	47
170	Stabilizing the Structure of LiCoPO <sub>4</sub> Nanocrystals via Addition of Fe <sup>3+</sup> : Formation of Fe <sup>3+</sup> Surface Layer, Creation of Diffusion-Enhancing Vacancies, and Enabling High-Voltage Battery Operation. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 6675-6683	9.6	11
169	Improving the Capacity of Electrochemical Capacitor Electrode by Grafting 2-Aminoanthraquinone over Kynol Carbon Cloth Using Diazonium Chemistry. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A3342-A3349	3.9	13
168	Polycationic oxides as potential electrode materials for aqueous-based electrochemical capacitors. <i>Current Opinion in Electrochemistry</i> , <b>2018</b> , 9, 87-94	7.2	13
167	Titanium vanadium nitride electrode for micro-supercapacitors. <i>Electrochemistry Communications</i> , <b>2017</b> , 77, 40-43	5.1	55
166	Aqueous energy-storage cells based on activated carbon and LiMn <sub>2</sub> O <sub>4</sub> electrodes. <i>Journal of Power Sources</i> , <b>2017</b> , 354, 148-156	8.9	26
165	Carbon-based composite materials for supercapacitor electrodes: a review. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 12653-12672	13	842
164	Perspective: A Guideline for Reporting Performance Metrics with Electrochemical Capacitors: From Electrode Materials to Full Devices. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A1487-A1488	3.9	163
163	Tuning the Cation Ordering with the Deposition Pressure in Sputtered LiMn <sub>1.5</sub> Ni <sub>0.5</sub> O <sub>4</sub> Thin Film Deposited on Functional Current Collectors for Li-Ion Microbattery Applications. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 6044-6057	9.6	22
162	Anthraquinone modification of microporous carbide derived carbon films for on-chip micro-supercapacitors applications. <i>Electrochimica Acta</i> , <b>2017</b> , 246, 391-398	6.7	25
161	Role of nitrogen doping at the surface of titanium nitride thin films towards capacitive charge storage enhancement. <i>Journal of Power Sources</i> , <b>2017</b> , 359, 349-354	8.9	44
160	Atomic Layer Deposition Alumina-Passivated Silicon Nanowires: Probing the Transition from Electrochemical Double-Layer Capacitor to Electrolytic Capacitor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 13761-13769	9.5	24
159	Materials for Electrochemical Capacitors <b>2017</b> , 495-561		17

158	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. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 1488-1494	13	18
157	Capacitive and Pseudocapacitive Electrodes for Electrochemical Capacitors and Hybrid Devices <b>2017</b> , 1-24		2
156	High Areal Energy 3D-Interdigitated Micro-Supercapacitors in Aqueous and Ionic Liquid Electrolytes. <i>Advanced Materials Technologies</i> , <b>2017</b> , 2, 1700126	6.8	56
155	Unravelling redox processes of LiMnN upon electrochemical Li extraction-insertion using operando XAS. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 27204-27211	3.6	9
154	Microsupercapacitors as miniaturized energy-storage components for on-chip electronics. <i>Nature Nanotechnology</i> , <b>2017</b> , 12, 7-15	28.7	563
153	Atomic Layer Deposition of Functional Layers for on Chip 3D Li-Ion All Solid State Microbattery. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1601402	21.8	92
152	<b>2017</b> ,		27
151	Electrochemical study of H3PMo12 retention on Vulcan carbon grafted with NH2 and OH groups. <i>Journal of Solid State Electrochemistry</i> , <b>2016</b> , 20, 67-79	2.6	26
150	Silicon nanowires and nanotrees: elaboration and optimization of new 3D architectures for high performance on-chip supercapacitors. <i>RSC Advances</i> , <b>2016</b> , 6, 81017-81027	3.7	30
149	Solder-reflow resistant solid-state micro-supercapacitors based on ionogels. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 11835-11843	13	35
148	Thin films of pure vanadium nitride: Evidence for anomalous non-faradaic capacitance. <i>Journal of Power Sources</i> , <b>2016</b> , 324, 439-446	8.9	53
147	Use of sacrificial lithium nickel oxide for loading graphitic anode in Li-ion capacitors. <i>Electrochimica Acta</i> , <b>2016</b> , 206, 440-445	6.7	33
146	New generation of hybrid carbon/Ni(OH)2 electrochemical capacitor using functionalized carbon electrode. <i>Journal of Power Sources</i> , <b>2016</b> , 326, 702-710	8.9	28
145	Chloroanthraquinone as a grafted probe molecule to investigate grafting yield on carbon powder. <i>Electrochimica Acta</i> , <b>2016</b> , 197, 139-145	6.7	14
144	Improving the Volumetric Energy Density of Supercapacitors. <i>Electrochimica Acta</i> , <b>2016</b> , 206, 458-463	6.7	27
143	Ultrafast charge/discharge characteristics of a nanosized core-shell structured LiFePO4 material for hybrid supercapacitor applications. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 2143-2151	35.4	99
142	Electrochemical study of aqueous asymmetric FeWO4/MnO2 supercapacitor. <i>Journal of Power Sources</i> , <b>2016</b> , 326, 695-701	8.9	48
141	Suitable Conditions for the Use of Vanadium Nitride as an Electrode for Electrochemical Capacitor. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, A1077-A1082	3.9	51

140	Lithium rhenium(VII) oxide as a novel material for graphite pre-lithiation in high performance lithium-ion capacitors. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 12609-12615	13	59
139	Sputtered Titanium Nitride: A Bifunctional Material for Li-Ion Microbatteries. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A493-A500	3.9	20
138	Strategies to Improve the Performance of Carbon/Carbon Capacitors in Salt Aqueous Electrolytes. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A5148-A5157	3.9	87
137	Electrochemical Capacitors: Fundamentals to Applications. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, Y3-Y3	3.9	16
136	Ink-jet printed porous composite LiFePO <sub>4</sub> electrode from aqueous suspension for microbatteries. <i>Journal of Power Sources</i> , <b>2015</b> , 287, 261-268	8.9	71
135	Spontaneous grafting of 9,10-phenanthrenequinone on porous carbon as an active electrode material in an electrochemical capacitor in an alkaline electrolyte. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 6146-6156	13	60
134	To Be or Not To Be Pseudocapacitive?. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A5185-A5189	3.9	1692
133	Electrochemical Performance of Carbon/MnO <sub>2</sub> Nanocomposites Prepared via Molecular Bridging as Supercapacitor Electrode Materials. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A5179-A5184	3.9	46
132	Effect of the Porous Texture of Activated Carbons on the Electrochemical Properties of Molecule-Grafted Carbon Products in Organic Media. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A2289-A2295	3.9	5
131	MnO <sub>2</sub> as ink material for the fabrication of supercapacitor electrodes. <i>Electrochimica Acta</i> , <b>2015</b> , 152, 520-529	6.7	22
130	Toward fast and cost-effective ink-jet printing of solid electrolyte for lithium microbatteries. <i>Journal of Power Sources</i> , <b>2015</b> , 274, 1085-1090	8.9	78
129	MnO <sub>2</sub> Thin Films on 3D Scaffold: Microsupercapacitor Electrodes Competing with Bulk Carbon Electrodes. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1500680	21.8	48
128	Chemical Modification of Graphene Oxide through Diazonium Chemistry and Its Influence on the Structure-Property Relationships of Graphene Oxide-Iron Oxide Nanocomposites. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 12465-74	4.8	27
127	Advances on the use of diazonium chemistry for functionalization of materials used in energy storage systems. <i>Carbon</i> , <b>2015</b> , 92, 362-381	10.4	108
126	Nanocrystalline FeWO <sub>4</sub> as a pseudocapacitive electrode material for high volumetric energy density supercapacitors operated in an aqueous electrolyte. <i>Electrochemistry Communications</i> , <b>2015</b> , 57, 61-64	5.1	49
125	Titanium nitride films for micro-supercapacitors: Effect of surface chemistry and film morphology on the capacitance. <i>Journal of Power Sources</i> , <b>2015</b> , 300, 525-532	8.9	108
124	Tuning silicon nanowires doping level and morphology for highly efficient micro-supercapacitors. <i>Nano Energy</i> , <b>2014</b> , 5, 20-27	17.1	37
123	VN thin films as electrode materials for electrochemical capacitors. <i>Electrochimica Acta</i> , <b>2014</b> , 141, 203-211	7.7	77

122	Toward fully organic rechargeable charge storage devices based on carbon electrodes grafted with redox molecules. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 8599-8602	13	26
121	All Solid-State Symmetrical Activated Carbon Electrochemical Double Layer Capacitors Designed with Ionogel Electrolyte. <i>ECS Electrochemistry Letters</i> , <b>2014</b> , 3, A112-A115		38
120	Silicon-Microtube Scaffold Decorated with Anatase TiO <sub>2</sub> as a Negative Electrode for a 3D Litiium-Ion Microbattery. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1301612	21.8	53
119	Wide-voltage-window silicon nanowire electrodes for micro-supercapacitors via electrochemical surface oxidation in ionic liquid electrolyte. <i>Electrochemistry Communications</i> , <b>2014</b> , 41, 31-34	5.1	55
118	Are tomorrow's micro-supercapacitors hidden in a forest of silicon nanotrees?. <i>Journal of Power Sources</i> , <b>2014</b> , 269, 740-746	8.9	47
117	Simpler and greener grafting method for improving the stability of anthraquinone-modified carbon electrode in alkaline media. <i>Electrochimica Acta</i> , <b>2014</b> , 137, 447-453	6.7	46
116	Morphology Effects on the Supercapacitive Electrochemical Performances of Iron Oxide/Reduced Graphene Oxide Nanocomposites. <i>ChemElectroChem</i> , <b>2014</b> , 1, 747-754	4.3	21
115	In operando X-ray diffraction study of Li <sub>7</sub> MnN <sub>4</sub> upon electrochemical Li extraction/insertion: A reversible three-phase mechanism. <i>Journal of Power Sources</i> , <b>2014</b> , 247, 402-405	8.9	6
114	Ultra-dense and highly doped SiNWs for micro-supercapacitors electrodes. <i>Electrochimica Acta</i> , <b>2014</b> , 117, 159-163	6.7	56
113	Hierarchical nanocomposite electrodes based on titanium nitride and carbon nanotubes for micro-supercapacitors. <i>Nano Energy</i> , <b>2014</b> , 7, 104-113	17.1	107
112	Application of sputtered ruthenium nitride thin films as electrode material for energy-storage devices. <i>Scripta Materialia</i> , <b>2013</b> , 68, 659-662	5.6	65
111	Preparation of Carbonaceous Materials in Fused Carbonate Salts: Applications to Electrochemical Storages Devices <b>2013</b> , 331-354		1
110	Micro-ultracapacitors with highly doped silicon nanowires electrodes. <i>Nanoscale Research Letters</i> , <b>2013</b> , 8, 38	5	56
109	Covalent vs. non-covalent redox functionalization of Cl <sub>2</sub> FePO <sub>4</sub> based electrodes. <i>Journal of Power Sources</i> , <b>2013</b> , 232, 246-253	8.9	15
108	In situ X-ray diffraction investigation of zinc based electrode in Ni/Zn secondary batteries. <i>Electrochimica Acta</i> , <b>2013</b> , 109, 110-116	6.7	32
107	Structural changes of a Li/S rechargeable cell in Lithium Metal Polymer technology. <i>Journal of Power Sources</i> , <b>2013</b> , 241, 249-254	8.9	22
106	Spontaneous arylation of activated carbon from aminobenzene organic acids as source of diazonium ions in mild conditions. <i>Electrochimica Acta</i> , <b>2013</b> , 88, 680-687	6.7	21
105	Asymmetric and Hybrid Devices in Aqueous Electrolytes <b>2013</b> , 257-288		10

104	Comparative Performances of Birnessite and Cryptomelane MnO <sub>2</sub> as Electrode Material in Neutral Aqueous Lithium Salt for Supercapacitor Application. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 7408-7422	3.8	69
103	An investigation of nanostructured thin film HMoO <sub>3</sub> based supercapacitor electrodes in an aqueous electrolyte. <i>Electrochimica Acta</i> , <b>2013</b> , 91, 253-260	6.7	140
102	Chemical functionalization of activated carbon through radical and diradical intermediates. <i>Electrochemistry Communications</i> , <b>2013</b> , 34, 14-17	5.1	14
101	Asymmetric electrochemical capacitor microdevice designed with vanadium nitride and nickel oxide thin film electrodes. <i>Electrochemistry Communications</i> , <b>2013</b> , 28, 104-106	5.1	81
100	Nanosilicon-Based Thick Negative Composite Electrodes for Lithium Batteries with Graphene as Conductive Additive. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 1351-1357	21.8	56
99	Electrochemical Capacitors: When the Levee Breaks. <i>Electrochemistry</i> , <b>2013</b> , 81, 773-773	1.2	2
98	Highly N-doped Silicon Nanowires as a Possible Alternative to Carbon for On-chip Electrochemical Capacitors. <i>Electrochemistry</i> , <b>2013</b> , 81, 777-782	1.2	17
97	Determination of the Quinone-loading of a Modified Carbon Powder-based Electrode for Electrochemical Capacitor. <i>Electrochemistry</i> , <b>2013</b> , 81, 863-866	1.2	34
96	Modeling pseudo capacitance of manganese dioxide. <i>Electrochimica Acta</i> , <b>2012</b> , 67, 41-49	6.7	29
95	Investigation of cavity microelectrode technique for electrochemical study with manganese dioxides. <i>Electrochimica Acta</i> , <b>2012</b> , 86, 268-276	6.7	37
94	Direct introduction of redox centers at activated carbon substrate based on acid-substituent-assisted diazotization. <i>Electrochemistry Communications</i> , <b>2012</b> , 25, 124-127	5.1	17
93	In situ redox functionalization of composite electrodes for high power/high energy electrochemical storage systems via a non-covalent approach. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 5379-5386	35.4	35
92	Titanium and vanadium oxynitride powders as pseudo-capacitive materials for electrochemical capacitors. <i>Electrochimica Acta</i> , <b>2012</b> , 82, 257-262	6.7	59
91	Electrochemical study of anthraquinone groups, grafted by the diazonium chemistry, in different aqueous media-relevance for the development of aqueous hybrid electrochemical capacitor. <i>Electrochimica Acta</i> , <b>2012</b> , 82, 250-256	6.7	59
90	Highly doped silicon nanowires based electrodes for micro-electrochemical capacitor applications. <i>Electrochemistry Communications</i> , <b>2012</b> , 25, 109-111	5.1	66
89	Fabrication of a Transparent Supercapacitor Electrode Consisting of Mn-Mo Oxide/CNT Nanocomposite. <i>ECS Transactions</i> , <b>2012</b> , 41, 53-64	1	4
88	Modification of activated carbons based on diazonium ions in situ produced from aminobenzene organic acid without addition of other acid. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 12221		21
87	Measuring time-dependent heat profiles of aqueous electrochemical capacitors under cycling. <i>Thermochimica Acta</i> , <b>2011</b> , 526, 1-8	2.9	42



86	Carbon/PbO <sub>2</sub> asymmetric electrochemical capacitor based on methanesulfonic acid electrolyte. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 8122-8128	6.7	63
85	Performance and stability of electrochemical capacitor based on anthraquinone modified activated carbon. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 4117-4122	8.9	160
84	Chemical Coupling of Carbon Nanotubes and Silicon Nanoparticles for Improved Negative Electrode Performance in Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 3524-3530	15.6	111
83	Effect of Ball-Milling on the Physical and Electrochemical Properties of PbO <sub>2</sub> and PbO <sub>2</sub> /BaSO <sub>4</sub> Nanocomposite. <i>Journal of the Electrochemical Society</i> , <b>2011</b> , 159, A60-A67	3.9	2
82	Effect of molecular grafting on the pore size distribution and the double layer capacitance of activated carbon for electrochemical double layer capacitors. <i>Carbon</i> , <b>2011</b> , 49, 1340-1348	10.4	135
81	Asymmetric electrochemical capacitors stretching the limits of aqueous electrolytes. <i>MRS Bulletin</i> , <b>2011</b> , 36, 513-522	3.2	327
80	Synthesis, Characterization and Electrochemical Studies of Active Materials for Sodium Ion Batteries. <i>ECS Transactions</i> , <b>2011</b> , 35, 91-98	1	33
79	Doping of Cobalt into Multilayered Manganese Oxide for Improved Pseudocapacitive Properties. <i>Journal of the Electrochemical Society</i> , <b>2010</b> , 157, A1067	3.9	26
78	TiO <sub>2</sub> (B) nanoribbons as negative electrode material for lithium ion batteries with high rate performance. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 8457-64	5.1	106
77	Valence electron energy-loss spectroscopy of silicon negative electrodes for lithium batteries. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 220-6	3.6	33
76	Electrolytes for hybrid carbon/MnO <sub>2</sub> electrochemical capacitors. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 7479-7488	3.7	45
75	Calorimetric measurement of the heat generated by a Double-Layer Capacitor cell under cycling. <i>Thermochimica Acta</i> , <b>2010</b> , 510, 53-60	2.9	28
74	EPMA/EDS surface measurements of interdiffusion coefficients between miscible metals in thin films. <i>Applied Surface Science</i> , <b>2010</b> , 256, 1855-1860	6.7	7
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72	Electrochemical Template Synthesis of Ordered Lead Dioxide Nanowires. <i>Journal of the Electrochemical Society</i> , <b>2009</b> , 156, A645	3.9	36
71	Birnessite as Possible Candidate for Hybrid Carbon/MnO <sub>2</sub> Electrochemical Capacitor. <i>ECS Transactions</i> , <b>2009</b> , 16, 119-123	1	11
70	Transparent MnO <sub>2</sub> -based Electrochemical Capacitor. <i>ECS Transactions</i> , <b>2009</b> , 16, 193-196	1	1
69	Synthesis of Ordered Lead Dioxide Nanowires using an Electroplating Template Method. <i>ECS Transactions</i> , <b>2009</b> , 16, 207-211	1	5

68	Effect of Ball-milling on the Physical and Electrochemical Properties of Lead Dioxide. <i>ECS Transactions</i> , <b>2009</b> , 16, 213-220	1	3
67	Graphite-Grafted Silicon Nanocomposite as a Negative Electrode for Lithium-Ion Batteries. <i>Advanced Materials</i> , <b>2009</b> , 21, 4735-4741	24	117
66	Transparent electrochemical capacitor based on electrodeposited MnO <sub>2</sub> thin film electrodes and gel-type electrolyte. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 1259-1261	5.1	29
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61	Synthesis of nanosized Si particles via a mechanochemical solid-liquid reaction and application in Li-ion batteries. <i>Solid State Ionics</i> , <b>2007</b> , 178, 1297-1303	3.3	36
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59	Long-term cycling behavior of asymmetric activated carbon/MnO <sub>2</sub> aqueous electrochemical supercapacitor. <i>Journal of Power Sources</i> , <b>2007</b> , 173, 633-641	8.9	404
58	Silicon/graphite nanocomposite electrodes prepared by low pressure chemical vapor deposition. <i>Journal of Power Sources</i> , <b>2007</b> , 174, 900-904	8.9	17
57	Electrochemical preparation and characterization of Birnessite-type layered manganese oxide films. <i>Journal of Physics and Chemistry of Solids</i> , <b>2006</b> , 67, 1351-1354	3.9	35
56	The chemical changes occurring upon cycling of a SnO <sub>2</sub> negative electrode for lithium ion cell: In situ Mössbauer investigation. <i>Journal of Solid State Chemistry</i> , <b>2006</b> , 179, 476-485	3.3	20
55	Synthesis of Birnessite-Type Layered Manganese Oxide and their Composites for Supercapacitors. <i>ECS Transactions</i> , <b>2006</b> , 1, 9-17	1	2
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53	Multi-level reduced-order thermal modeling of electrochemical capacitors. <i>Journal of Power Sources</i> , <b>2006</b> , 157, 630-640	8.9	53
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51	Nanostructured transition metal oxides for aqueous hybrid electrochemical supercapacitors. <i>Applied Physics A: Materials Science and Processing</i> , <b>2006</b> , 82, 599-606	2.6	512

50	Synthesis, characterization and electrochemical properties of copper phosphide (Cu <sub>3</sub> P) thick films prepared by solid-state reaction at low temperature: a probable anode for lithium ion batteries. <i>Electrochimica Acta</i> , <b>2005</b> , 50, 4763-4770	6.7	53
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46	Cu <sub>3</sub> P as anode material for lithium ion battery: powder morphology and electrochemical performances. <i>Journal of Power Sources</i> , <b>2004</b> , 136, 80-87	8.9	78
45	SnO <sub>2</sub> negative electrode for lithium ion cell: in situ Mössbauer investigation of chemical changes upon discharge. <i>Journal of Solid State Chemistry</i> , <b>2004</b> , 177, 4332-4340	3.3	43
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43	Electrochemical Reaction Between Lithium and Quartz GeO <sub>2</sub> . <i>Electrochemical and Solid-State Letters</i> , <b>2004</b> , 7, A278		68
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15	Composite negative electrodes for lithium ion cells. <i>Solid State Ionics</i> , <b>1998</b> , 113-115, 51-56	3.3	70

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13	Thin Films of Ionic Conductors by Laser Ablation. <i>Materials Research Society Symposia Proceedings</i> , <b>1998</b> , 548, 213		
12	Metal oxide anodes for Li-ion batteries. <i>Ionics</i> , <b>1997</b> , 3, 332-337	2.7	28
11	All oxide solid-state lithium-ion cells. <i>Journal of Power Sources</i> , <b>1997</b> , 68, 412-415	8.9	80
10	Characterization of sprayed and sputtered thin films for lithium ion microbatteries. <i>Ionics</i> , <b>1996</b> , 2, 398-404		
9	Sprayed and thermally evaporated SnO <sub>2</sub> thin films for ethanol sensors. <i>Sensors and Actuators B: Chemical</i> , <b>1996</b> , 31, 77-79	8.5	58
8	Characterization of sprayed and sputter deposited LiCoO <sub>2</sub> thin films for rechargeable microbatteries. <i>Journal of Power Sources</i> , <b>1996</b> , 63, 187-191	8.9	41
7	Ethanol sensing properties of SnO <sub>2</sub> thin films. <i>Ionics</i> , <b>1995</b> , 1, 499-503	2.7	1
6	Preparation of Y <sub>2</sub> Ba <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> and Bi <sub>2</sub> Sr <sub>2</sub> Ca <sub>2</sub> Cu <sub>2</sub> O thin films and low temperature annealing effects. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>1992</b> , 13, 35-41	3.1	4
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4	Laser ablated bismuth cuprate thin films preparation and effect of oxygen nonstoichiometry upon superconductivity. <i>Physica C: Superconductivity and Its Applications</i> , <b>1990</b> , 170, 545-551	1.3	11
3	Superconducting printed YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> thick films prepared with an argon/oxygen annealing treatment. <i>Physica C: Superconductivity and Its Applications</i> , <b>1990</b> , 170, 59-64	1.3	7
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