

Thierry Brousse

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232
ext. papers

18,571
ext. citations

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#	Paper	IF	Citations
211	Charge Storage Mechanism of MnO ₂ Electrode Used in Aqueous Electrochemical Capacitor. <i>Chemistry of Materials</i> , 2004 , 16, 3184-3190	9.6	2166
210	To Be or Not To Be Pseudocapacitive?. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A5185-A5189	3.9	1692
209	Carbon-based composite materials for supercapacitor electrodes: a review. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12653-12672	13	842
208	Influence of Microstructure on the Charge Storage Properties of Chemically Synthesized Manganese Dioxide. <i>Chemistry of Materials</i> , 2002 , 14, 3946-3952	9.6	828
207	Microsupercapacitors as miniaturized energy-storage components for on-chip electronics. <i>Nature Nanotechnology</i> , 2017 , 12, 7-15	28.7	563
206	Crystalline MnO ₂ as Possible Alternatives to Amorphous Compounds in Electrochemical Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2006 , 153, A2171	3.9	552
205	Nanostructured transition metal oxides for aqueous hybrid electrochemical supercapacitors. <i>Applied Physics A: Materials Science and Processing</i> , 2006 , 82, 599-606	2.6	512
204	Long-term cycling behavior of asymmetric activated carbon/MnO ₂ aqueous electrochemical supercapacitor. <i>Journal of Power Sources</i> , 2007 , 173, 633-641	8.9	404
203	Asymmetric electrochemical capacitors stretching the limits of aqueous electrolytes. <i>MRS Bulletin</i> , 2011 , 36, 513-522	3.2	327
202	Amorphous silicon as a possible anode material for Li-ion batteries. <i>Journal of Power Sources</i> , 1999 , 81-82, 233-236	8.9	319
201	Thin-Film Crystalline SnO ₂ -Lithium Electrodes. <i>Journal of the Electrochemical Society</i> , 1998 , 145, 1-4	3.9	303
200	Variation of the MnO ₂ Birnessite Structure upon Charge/Discharge in an Electrochemical Supercapacitor Electrode in Aqueous Na ₂ SO ₄ Electrolyte. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 7270-7277	3.8	295
199	A Hybrid Activated Carbon-Manganese Dioxide Capacitor using a Mild Aqueous Electrolyte. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A614	3.9	292
198	Manganese Oxides: Battery Materials Make the Leap to Electrochemical Capacitors. <i>Electrochemical Society Interface</i> , 2008 , 17, 49-52	3.6	284
197	Aluminum negative electrode in lithium ion batteries. <i>Journal of Power Sources</i> , 2001 , 97-98, 185-187	8.9	203
196	Challenges and prospects of 3D micro-supercapacitors for powering the internet of things. <i>Energy and Environmental Science</i> , 2019 , 12, 96-115	35.4	184
195	A Hybrid Fe ₃ O ₄ -MnO ₂ Capacitor in Mild Aqueous Electrolyte. <i>Electrochemical and Solid-State Letters</i> , 2003 , 6, A244		174

194	Safe and recyclable lithium-ion capacitors using sacrificial organic lithium salt. <i>Nature Materials</i> , 2018 , 17, 167-173	27	171
193	Perspective A Guideline for Reporting Performance Metrics with Electrochemical Capacitors: From Electrode Materials to Full Devices. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A1487-A1488 ^{3,9}		163
192	Performance and stability of electrochemical capacitor based on anthraquinone modified activated carbon. <i>Journal of Power Sources</i> , 2011 , 196, 4117-4122	8.9	160
191	An investigation of nanostructured thin film MoO_3 based supercapacitor electrodes in an aqueous electrolyte. <i>Electrochimica Acta</i> , 2013 , 91, 253-260	6.7	140
190	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> , 2011 , 49, 1340-1348	10.4	135
189	High-Resolution Electron Microscopy Investigation of Capacity Fade in SnO ₂ Electrodes for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 2472-2476	3.9	128
188	TiO ₂ (B)/activated carbon non-aqueous hybrid system for energy storage. <i>Journal of Power Sources</i> , 2006 , 158, 571-577	8.9	119
187	Graphite-Grafted Silicon Nanocomposite as a Negative Electrode for Lithium-Ion Batteries. <i>Advanced Materials</i> , 2009 , 21, 4735-4741	24	117
186	Chemical Coupling of Carbon Nanotubes and Silicon Nanoparticles for Improved Negative Electrode Performance in Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2011 , 21, 3524-3530	15.6	111
185	Advances on the use of diazonium chemistry for functionalization of materials used in energy storage systems. <i>Carbon</i> , 2015 , 92, 362-381	10.4	108
184	Titanium nitride films for micro-supercapacitors: Effect of surface chemistry and film morphology on the capacitance. <i>Journal of Power Sources</i> , 2015 , 300, 525-532	8.9	108
183	Hierarchical nanocomposite electrodes based on titanium nitride and carbon nanotubes for micro-supercapacitors. <i>Nano Energy</i> , 2014 , 7, 104-113	17.1	107
182	TiO ₂ (B) nanoribbons as negative electrode material for lithium ion batteries with high rate performance. <i>Inorganic Chemistry</i> , 2010 , 49, 8457-64	5.1	106
181	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	35.4	99
180	Atomic Layer Deposition of Functional Layers for on Chip 3D Li-Ion All Solid State Microbattery. <i>Advanced Energy Materials</i> , 2017 , 7, 1601402	21.8	92
179	Air stable copper phosphide (Cu ₃ P): a possible negative electrode material for lithium batteries. <i>Electrochemistry Communications</i> , 2004 , 6, 263-267	5.1	91
178	Strategies to Improve the Performance of Carbon/Carbon Capacitors in Salt Aqueous Electrolytes. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A5148-A5157	3.9	87
177	New anode systems for lithium ion cells. <i>Journal of Power Sources</i> , 2001 , 94, 169-174	8.9	82

- 176 Asymmetric electrochemical capacitor microdevice designed with vanadium nitride and nickel oxide thin film electrodes. *Electrochemistry Communications*, **2013**, 28, 104-106 5.1 81
- 175 All oxide solid-state lithium-ion cells. *Journal of Power Sources*, **1997**, 68, 412-415 8.9 80
- 174 Toward fast and cost-effective ink-jet printing of solid electrolyte for lithium microbatteries. *Journal of Power Sources*, **2015**, 274, 1085-1090 8.9 78
- 173 Improvement of the Thermal Stability of $\text{LiNi}_{0.8}\text{Co}_{0.2}\text{O}_2$ Cathode by a SiO_x Protective Coating. *Journal of the Electrochemical Society*, **2004**, 151, A922 3.9 78
- 172 Cu₃P as anode material for lithium ion battery: powder morphology and electrochemical performances. *Journal of Power Sources*, **2004**, 136, 80-87 8.9 78
- 171 Ni(OH)₂ and NiO Based Composites: Battery Type Electrode Materials for Hybrid Supercapacitor Devices. *Materials*, **2018**, 11, 3.5 77
- 170 VN thin films as electrode materials for electrochemical capacitors. *Electrochimica Acta*, **2014**, 141, 203-211 77
- 169 Ink-jet printed porous composite LiFePO₄ electrode from aqueous suspension for microbatteries. *Journal of Power Sources*, **2015**, 287, 261-268 8.9 71
- 168 Composite negative electrodes for lithium ion cells. *Solid State Ionics*, **1998**, 113-115, 51-56 3.3 70
- 167 Comparative Performances of Birnessite and Cryptomelane MnO₂ as Electrode Material in Neutral Aqueous Lithium Salt for Supercapacitor Application. *Journal of Physical Chemistry C*, **2013**, 117, 7408-7422 3.8 69
- 166 Electrochemical Reaction Between Lithium and Quartz GeO₂. *Electrochemical and Solid-State Letters*, **2004**, 7, A278 68
- 165 Highly doped silicon nanowires based electrodes for micro-electrochemical capacitor applications. *Electrochemistry Communications*, **2012**, 25, 109-111 5.1 66
- 164 Antimony doping effect on the electrochemical behavior of SnO₂ thin film electrodes. *Journal of Power Sources*, **2001**, 97-98, 232-234 8.9 66
- 163 Application of sputtered ruthenium nitride thin films as electrode material for energy-storage devices. *Scripta Materialia*, **2013**, 68, 659-662 5.6 65
- 162 Carbon/PbO₂ asymmetric electrochemical capacitor based on methanesulfonic acid electrolyte. *Electrochimica Acta*, **2011**, 56, 8122-8128 6.7 63
- 161 Supercapacitor behavior of new substituted manganese dioxides. *Journal of Power Sources*, **2007**, 165, 651-655 8.9 62
- 160 Spontaneous grafting of 9,10-phenanthrenequinone on porous carbon as an active electrode material in an electrochemical capacitor in an alkaline electrolyte. *Journal of Materials Chemistry A*, **2015**, 3, 6146-6156 13 60
- 159 Titanium and vanadium oxynitride powders as pseudo-capacitive materials for electrochemical capacitors. *Electrochimica Acta*, **2012**, 82, 257-262 6.7 59

158	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> , 2012 , 82, 250-256	6.7	59
157	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> , 2016 , 4, 12609-12615	13	59
156	Sprayed and thermally evaporated SnO ₂ thin films for ethanol sensors. <i>Sensors and Actuators B: Chemical</i> , 1996 , 31, 77-79	8.5	58
155	Micro-ultracapacitors with highly doped silicon nanowires electrodes. <i>Nanoscale Research Letters</i> , 2013 , 8, 38	5	56
154	High Areal Energy 3D-Interdigitated Micro-Supercapacitors in Aqueous and Ionic Liquid Electrolytes. <i>Advanced Materials Technologies</i> , 2017 , 2, 1700126	6.8	56
153	Ultra-dense and highly doped SiNWs for micro-supercapacitors electrodes. <i>Electrochimica Acta</i> , 2014 , 117, 159-163	6.7	56
152	Nanosilicon-Based Thick Negative Composite Electrodes for Lithium Batteries with Graphene as Conductive Additive. <i>Advanced Energy Materials</i> , 2013 , 3, 1351-1357	21.8	56
151	Titanium vanadium nitride electrode for micro-supercapacitors. <i>Electrochemistry Communications</i> , 2017 , 77, 40-43	5.1	55
150	Wide-voltage-window silicon nanowire electrodes for micro-supercapacitors via electrochemical surface oxidation in ionic liquid electrolyte. <i>Electrochemistry Communications</i> , 2014 , 41, 31-34	5.1	55
149	Thin films of pure vanadium nitride: Evidence for anomalous non-faradaic capacitance. <i>Journal of Power Sources</i> , 2016 , 324, 439-446	8.9	53
148	Silicon-Microtube Scaffold Decorated with Anatase TiO ₂ as a Negative Electrode for a 3D Lithium-Ion Microbattery. <i>Advanced Energy Materials</i> , 2014 , 4, 1301612	21.8	53
147	Multi-level reduced-order thermal modeling of electrochemical capacitors. <i>Journal of Power Sources</i> , 2006 , 157, 630-640	8.9	53
146	Synthesis, characterization and electrochemical properties of copper phosphide (Cu ₃ P) thick films prepared by solid-state reaction at low temperature: a probable anode for lithium ion batteries. <i>Electrochimica Acta</i> , 2005 , 50, 4763-4770	6.7	53
145	Suitable Conditions for the Use of Vanadium Nitride as an Electrode for Electrochemical Capacitor. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A1077-A1082	3.9	51
144	Stable high-voltage aqueous pseudocapacitive energy storage device with slow self-discharge. <i>Nano Energy</i> , 2019 , 64, 103961	17.1	49
143	Nanocrystalline FeWO ₄ as a pseudocapacitive electrode material for high volumetric energy density supercapacitors operated in an aqueous electrolyte. <i>Electrochemistry Communications</i> , 2015 , 57, 61-64	5.1	49
142	Non-stoichiometry in LiMn ₂ O ₄ thin films by laser ablation. <i>Solid State Ionics</i> , 2001 , 138, 213-219	3.3	49
141	MnO ₂ Thin Films on 3D Scaffold: Microsupercapacitor Electrodes Competing with Bulk Carbon Electrodes. <i>Advanced Energy Materials</i> , 2015 , 5, 1500680	21.8	48

140	Electrochemical study of aqueous asymmetric FeWO ₄ /MnO ₂ supercapacitor. <i>Journal of Power Sources</i> , 2016 , 326, 695-701	8.9	48
139	Are tomorrow's micro-supercapacitors hidden in a forest of silicon nanotrees?. <i>Journal of Power Sources</i> , 2014 , 269, 740-746	8.9	47
138	Electrodes based on nano-tree-like vanadium nitride and carbon nanotubes for micro-supercapacitors. <i>Journal of Materials Science and Technology</i> , 2018 , 34, 976-982	9.1	47
137	Electrochemical Performance of Carbon/MnO ₂ Nanocomposites Prepared via Molecular Bridging as Supercapacitor Electrode Materials. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A5179-A5184	3.9	46
136	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> , 2018 , 3, 1800036	6.8	46
135	Simpler and greener grafting method for improving the stability of anthraquinone-modified carbon electrode in alkaline media. <i>Electrochimica Acta</i> , 2014 , 137, 447-453	6.7	46
134	Electrolytes for hybrid carbon/MnO ₂ electrochemical capacitors. <i>Electrochimica Acta</i> , 2010 , 55, 7479-7483	8.7	45
133	Use of genetic algorithms for the simultaneous estimation of thin films thermal conductivity and contact resistances. <i>International Journal of Heat and Mass Transfer</i> , 2001 , 44, 3973-3984	4.9	45
132	Role of nitrogen doping at the surface of titanium nitride thin films towards capacitive charge storage enhancement. <i>Journal of Power Sources</i> , 2017 , 359, 349-354	8.9	44
131	The electrochemical generation of ferrate at pressed iron powder electrodes: effect of various operating parameters. <i>Electrochimica Acta</i> , 2003 , 48, 1425-1433	6.7	44
130	SnO ₂ negative electrode for lithium ion cell: in situ Mössbauer investigation of chemical changes upon discharge. <i>Journal of Solid State Chemistry</i> , 2004 , 177, 4332-4340	3.3	43
129	Measuring time-dependent heat profiles of aqueous electrochemical capacitors under cycling. <i>Thermochimica Acta</i> , 2011 , 526, 1-8	2.9	42
128	LiMn ₂ O ₄ thin films for lithium ion sensors. <i>Solid State Ionics</i> , 1998 , 112, 249-254	3.3	42
127	Characterization of sprayed and sputter deposited LiCoO ₂ thin films for rechargeable microbatteries. <i>Journal of Power Sources</i> , 1996 , 63, 187-191	8.9	41
126	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> , 2020 , 13, 949-957	35.4	41
125	All Solid-State Symmetrical Activated Carbon Electrochemical Double Layer Capacitors Designed with Ionogel Electrolyte. <i>ECS Electrochemistry Letters</i> , 2014 , 3, A112-A115		38
124	Tuning silicon nanowires doping level and morphology for highly efficient micro-supercapacitors. <i>Nano Energy</i> , 2014 , 5, 20-27	17.1	37
123	Investigation of cavity microelectrode technique for electrochemical study with manganese dioxides. <i>Electrochimica Acta</i> , 2012 , 86, 268-276	6.7	37

122	Electrochemical Template Synthesis of Ordered Lead Dioxide Nanowires. <i>Journal of the Electrochemical Society</i> , 2009 , 156, A645	3.9	36
121	Synthesis of nanosized Si particles via a mechanochemical solid-liquid reaction and application in Li-ion batteries. <i>Solid State Ionics</i> , 2007 , 178, 1297-1303	3.3	36
120	Solder-reflow resistant solid-state micro-supercapacitors based on ionogels. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 11835-11843	13	35
119	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> , 2012 , 5, 5379-5386	35.4	35
118	Electrochemical preparation and characterization of Birnessite-type layered manganese oxide films. <i>Journal of Physics and Chemistry of Solids</i> , 2006 , 67, 1351-1354	3.9	35
117	High temperature solid-state supercapacitor designed with ionogel electrolyte. <i>Energy Storage Materials</i> , 2019 , 21, 439-445	19.4	34
116	Determination of the Quinone-loading of a Modified Carbon Powder-based Electrode for Electrochemical Capacitor. <i>Electrochemistry</i> , 2013 , 81, 863-866	1.2	34
115	Use of sacrificial lithium nickel oxide for loading graphitic anode in Li-ion capacitors. <i>Electrochimica Acta</i> , 2016 , 206, 440-445	6.7	33
114	Valence electron energy-loss spectroscopy of silicon negative electrodes for lithium batteries. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 220-6	3.6	33
113	Synthesis, Characterization and Electrochemical Studies of Active Materials for Sodium Ion Batteries. <i>ECS Transactions</i> , 2011 , 35, 91-98	1	33
112	Sputtered tungsten nitride films as pseudocapacitive electrode for on chip micro-supercapacitors. <i>Energy Storage Materials</i> , 2019 , 20, 243-252	19.4	32
111	In situ X-ray diffraction investigation of zinc based electrode in Ni/Zn secondary batteries. <i>Electrochimica Acta</i> , 2013 , 109, 110-116	6.7	32
110	Cascade-Type Prelithiation Approach for Li-Ion Capacitors. <i>Advanced Energy Materials</i> , 2019 , 9, 1900078	21.8	31
109	Silicon nanowires and nanotrees: elaboration and optimization of new 3D architectures for high performance on-chip supercapacitors. <i>RSC Advances</i> , 2016 , 6, 81017-81027	3.7	30
108	Modeling pseudo capacitance of manganese dioxide. <i>Electrochimica Acta</i> , 2012 , 67, 41-49	6.7	29
107	Transparent electrochemical capacitor based on electrodeposited MnO ₂ thin film electrodes and gel-type electrolyte. <i>Electrochemistry Communications</i> , 2009 , 11, 1259-1261	5.1	29
106	Thermal conductivity of ZrO ₂ thin films. <i>International Journal of Thermal Sciences</i> , 2000 , 39, 537-543	4.1	29
105	Search for suitable matrix for the use of tin-based anodes in lithium ion batteries. <i>Solid State Ionics</i> , 2000 , 135, 87-93	3.3	29

104	New generation of hybrid carbon/Ni(OH) ₂ electrochemical capacitor using functionalized carbon electrode. <i>Journal of Power Sources</i> , 2016 , 326, 702-710	8.9	28
103	EQCM study of electrodeposited PbO ₂ : Investigation of the gel formation and discharge mechanisms. <i>Electrochimica Acta</i> , 2009 , 54, 7382-7388	6.7	28
102	Calorimetric measurement of the heat generated by a Double-Layer Capacitor cell under cycling. <i>Thermochimica Acta</i> , 2010 , 510, 53-60	2.9	28
101	Metal oxide anodes for Li-ion batteries. <i>Ionics</i> , 1997 , 3, 332-337	2.7	28
100	Improving the Volumetric Energy Density of Supercapacitors. <i>Electrochimica Acta</i> , 2016 , 206, 458-463	6.7	27
99	2017 ,		27
98	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> , 2015 , 21, 12465-74	4.8	27
97	Influence of particle size and matrix in metal anodes for Li-ion cells. <i>Journal of Power Sources</i> , 2001 , 97-98, 188-190	8.9	27
96	Electrochemical study of H ₃ PMo ₁₂ retention on Vulcan carbon grafted with NH ₂ and OH groups. <i>Journal of Solid State Electrochemistry</i> , 2016 , 20, 67-79	2.6	26
95	Aqueous energy-storage cells based on activated carbon and LiMn ₂ O ₄ electrodes. <i>Journal of Power Sources</i> , 2017 , 354, 148-156	8.9	26
94	Toward fully organic rechargeable charge storage devices based on carbon electrodes grafted with redox molecules. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 8599-8602	13	26
93	Doping of Cobalt into Multilayered Manganese Oxide for Improved Pseudocapacitive Properties. <i>Journal of the Electrochemical Society</i> , 2010 , 157, A1067	3.9	26
92	Anthraquinone modification of microporous carbide derived carbon films for on-chip micro-supercapacitors applications. <i>Electrochimica Acta</i> , 2017 , 246, 391-398	6.7	25
91	Atomic Layer Deposition Alumina-Passivated Silicon Nanowires: Probing the Transition from Electrochemical Double-Layer Capacitor to Electrolytic Capacitor. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 13761-13769	9.5	24
90	Nanosized LiFeO ₂ as electrochemical supercapacitor electrode in neutral sulfate electrolytes. <i>Electrochimica Acta</i> , 2010 , 55, 7511-7515	6.7	24
89	Tuning the Cation Ordering with the Deposition Pressure in Sputtered LiMn _{1.5} Ni _{0.5} O ₄ Thin Film Deposited on Functional Current Collectors for Li-Ion Microbattery Applications. <i>Chemistry of Materials</i> , 2017 , 29, 6044-6057	9.6	22
88	MnO ₂ as ink material for the fabrication of supercapacitor electrodes. <i>Electrochimica Acta</i> , 2015 , 152, 520-529	6.7	22
87	Structural changes of a Li/S rechargeable cell in Lithium Metal Polymer technology. <i>Journal of Power Sources</i> , 2013 , 241, 249-254	8.9	22

86	Concept for Charge Storage in Electrochemical Capacitors with Functionalized Carbon Electrodes. <i>Electrochemical and Solid-State Letters</i> , 2008 , 11, A202		22
85	Asymmetric micro-supercapacitors based on electrodeposited RuO ₂ and sputtered VN films. <i>Energy Storage Materials</i> , 2021 , 37, 207-214	19.4	22
84	Spontaneous arylation of activated carbon from aminobenzene organic acids as source of diazonium ions in mild conditions. <i>Electrochimica Acta</i> , 2013 , 88, 680-687	6.7	21
83	Morphology Effects on the Supercapacitive Electrochemical Performances of Iron Oxide/Reduced Graphene Oxide Nanocomposites. <i>ChemElectroChem</i> , 2014 , 1, 747-754	4.3	21
82	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> , 2011 , 21, 12221		21
81	Microstructure and metal-insulator transition of NdNiO ₃ thin films on various substrates. <i>Thin Solid Films</i> , 1999 , 354, 50-54	2.2	21
80	Sputtered Titanium Nitride: A Bifunctional Material for Li-Ion Microbatteries. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A493-A500	3.9	20
79	The chemical changes occurring upon cycling of a SnO ₂ negative electrode for lithium ion cell: In situ Mössbauer investigation. <i>Journal of Solid State Chemistry</i> , 2006 , 179, 476-485	3.3	20
78	Synthesis, characterization and thermal stability of Ni ₃ P coatings on nickel. <i>Materials Chemistry and Physics</i> , 2005 , 92, 534-539	4.4	20
77	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> , 2017 , 5, 1488-1494	13	18
76	Growth by laser ablation of Ti-based oxide films with different valency states. <i>Applied Physics A: Materials Science and Processing</i> , 1998 , 67, 425-428	2.6	18
75	Materials for Electrochemical Capacitors 2017 , 495-561		17
74	Direct introduction of redox centers at activated carbon substrate based on acid-substituent-assisted diazotization. <i>Electrochemistry Communications</i> , 2012 , 25, 124-127	5.1	17
73	Highly N-doped Silicon Nanowires as a Possible Alternative to Carbon for On-chip Electrochemical Capacitors. <i>Electrochemistry</i> , 2013 , 81, 777-782	1.2	17
72	Silicon/graphite nanocomposite electrodes prepared by low pressure chemical vapor deposition. <i>Journal of Power Sources</i> , 2007 , 174, 900-904	8.9	17
71	Electrochemical Capacitors: Fundamentals to Applications. <i>Journal of the Electrochemical Society</i> , 2015 , 162, Y3-Y3	3.9	16
70	Advanced oxide and metal powders for negative electrodes in lithium-ion batteries. <i>Powder Technology</i> , 2002 , 128, 124-130	5.2	16
69	Covalent vs. non-covalent redox functionalization of ClLiFePO ₄ based electrodes. <i>Journal of Power Sources</i> , 2013 , 232, 246-253	8.9	15

68	Electrochemical intercalation of lithium into the perovskite-type NbO ₂ F: influence of the NbO ₂ F particle size. <i>Journal of Solid State Electrochemistry</i> , 2001 , 5, 1-7	2.6	15
67	Achieving on chip micro-supercapacitors based on CrN deposited by bipolar magnetron sputtering at glancing angle. <i>Electrochimica Acta</i> , 2019 , 324, 134890	6.7	14
66	Chloroanthraquinone as a grafted probe molecule to investigate grafting yield on carbon powder. <i>Electrochimica Acta</i> , 2016 , 197, 139-145	6.7	14
65	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> , 2018 , 29, 13125-13131	3.7	14
64	Chemical functionalization of activated carbon through radical and diradical intermediates. <i>Electrochemistry Communications</i> , 2013 , 34, 14-17	5.1	14
63	Comparison of the electrochemical behaviour of SnO ₂ and PbO ₂ negative electrodes for lithium ion batteries. <i>Ionics</i> , 2002 , 8, 27-35	2.7	14
62	Mg ₂ Si and MSi ₂ (M=Ca, Fe) silicon alloys as possible anodes for lithium batteries. <i>Ionics</i> , 2000 , 6, 133-138	2.7	14
61	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> , 2018 , 165, A3342-A3349	3.9	13
60	Polycationic oxides as potential electrode materials for aqueous-based electrochemical capacitors. <i>Current Opinion in Electrochemistry</i> , 2018 , 9, 87-94	7.2	13
59	Tin based alloys for lithium ion batteries. <i>Ionics</i> , 1999 , 5, 311-315	2.7	12
58	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> , 2020 , 167, 100551	3.9	11
57	Birnessite as Possible Candidate for Hybrid Carbon/MnO ₂ Electrochemical Capacitor. <i>ECS Transactions</i> , 2009 , 16, 119-123	1	11
56	Laser ablated bismuth cuprate thin films preparation and effect of oxygen nonstoichiometry upon superconductivity. <i>Physica C: Superconductivity and Its Applications</i> , 1990 , 170, 545-551	1.3	11
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