Elzbieta Frackowiak

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200 papers	23,075 citations	62 h-index	151 g-index
209 ext. papers	24,698 ext. citations	7.8 avg, IF	7.33 L-index

#	Paper	IF	Citations
200	Carbon materials for the electrochemical storage of energy in capacitors. *Carbon*, **2001**, 39, 937-950	10.4	3690
199	Carbons and electrolytes for advanced supercapacitors. *Advanced Materials*, **2014**, 26, 2219-51, 2283	24	1808
198	Carbon materials for supercapacitor application. *Physical Chemistry Chemical Physics*, **2007**, 9, 1774-85	3.6	1539
197	Electrochemical storage of energy in carbon nanotubes and nanostructured carbons. *Carbon*, **2002**, 40, 1775-1787	10.4	928
196	Supercapacitors based on conducting polymers/nanotubes composites. *Journal of Power Sources*, **2006**, 153, 413-418	8.9	798
195	Determination of the specific capacitance of conducting polymer/nanotubes composite electrodes using different cell configurations. *Electrochimica Acta*, **2005**, 50, 2499-2506	6.7	653
194	Electrochemical energy storage in ordered porous carbon materials. *Carbon*, **2005**, 43, 1293-1302	10.4	594
193	Novel insight into neutral medium as electrolyte for high-voltage supercapacitors. *Energy and Environmental Science*, **2012**, 5, 5842-5850	35.4	590
192	Supercapacitor electrodes from multiwalled carbon nanotubes. *Applied Physics Letters*, **2000**, 77, 2421-2423	3.4	578
191	Carbon nanotubes and their composites in electrochemical applications. *Energy and Environmental Science*, **2011**, 4, 1592	35.4	476
190	Supercapacitors from nanotubes/polypyrrole composites. *Chemical Physics Letters*, **2001**, 347, 36-40	2.5	451
189	Capacitance properties of poly(3,4-ethylenedioxythiophene)/carbon nanotubes composites. *Journal of Physics and Chemistry of Solids*, **2004**, 65, 295-301	3.9	427
188	Electrochemical storage of lithium in multiwalled carbon nanotubes. *Carbon*, **1999**, 37, 61-69	10.4	393
187	Templated mesoporous carbons for supercapacitor application. *Electrochimica Acta*, **2005**, 50, 2799-2805	6.7	362
186	Electrochemical capacitors based on highly porous carbons prepared by KOH activation. *Electrochimica Acta*, **2004**, 49, 515-523	6.7	359
185	Performance of Manganese Oxide/CNTs Composites as Electrode Materials for Electrochemical Capacitors. *Journal of the Electrochemical Society*, **2005**, 152, A229	3.9	335
184	High-voltage asymmetric supercapacitors operating in aqueous electrolyte. *Applied Physics A: Materials Science and Processing*, **2006**, 82, 567-573	2.6	310

183	Effect of nitrogen in carbon electrode on the supercapacitor performance. *Chemical Physics Letters*, **2005**, 404, 53-58	2.5	306
182	Nanotubular materials for supercapacitors. *Journal of Power Sources*, **2001**, 97-98, 822-825	8.9	280
181	Optimisation of supercapacitors using carbons with controlled nanotexture and nitrogen content. *Electrochimica Acta*, **2006**, 51, 2209-2214	6.7	273
180	Effect of pore size distribution of coal-based activated carbons on double layer capacitance. *Electrochimica Acta*, **2005**, 50, 1197-1206	6.7	272
179	A Self-Supporting Electrode for Supercapacitors Prepared by One-Step Pyrolysis of Carbon Nanotube/Polyacrylonitrile Blends. *Advanced Materials*, **2005**, 17, 2380-2384	24	271
178	Towards the mechanism of electrochemical hydrogen storage in nanostructured carbon materials. *Applied Physics A: Materials Science and Processing*, **2004**, 78, 981-987	2.6	252
177	Enhanced capacitance of carbon nanotubes through chemical activation. *Chemical Physics Letters*, **2002**, 361, 35-41	2.5	238
176	Supercapacitor based on activated carbon and polyethylene oxideKOHH2O polymer electrolyte. *Electrochimica Acta*, **2001**, 46, 2777-2780	6.7	224
175	Carbon/carbon supercapacitors. *Journal of Energy Chemistry*, **2013**, 22, 226-240	12	220
174	Nanotubes based composites rich in nitrogen for supercapacitor application. *Electrochemistry Communications*, **2007**, 9, 1828-1832	5.1	214
173	Striking capacitance of carbon/iodide interface. *Electrochemistry Communications*, **2009**, 11, 87-90	5.1	211
172	Improvement of the structural and chemical properties of a commercial activated carbon for its application in electrochemical capacitors. *Electrochimica Acta*, **2008**, 53, 2210-2216	6.7	204
171	Carbon science in 2016: Status, challenges and perspectives. *Carbon*, **2016**, 98, 708-732	10.4	200
170	Capacitance properties of ordered porous carbon materials prepared by a templating procedure. *Journal of Physics and Chemistry of Solids*, **2004**, 65, 287-293	3.9	199
169	In vitro studies of carbon nanotubes biocompatibility. *Carbon*, **2006**, 44, 1106-1111	10.4	182
168	Sustainable materials for electrochemical capacitors. *Materials Today*, **2018**, 21, 437-454	21.8	162
167	Ageing phenomena in high-voltage aqueous supercapacitors investigated by in situ gas analysis. *Energy and Environmental Science*, **2016**, 9, 623-633	35.4	159
166	Supercapacitor electrodes from new ordered porous carbon materials obtained by a templating procedure. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2004**, 108, 148-155	3.1	150

165	Room-temperature phosphonium ionic liquids for supercapacitor application. *Applied Physics Letters*, **2005**, 86, 164104	3.4	148
164	Redox-active electrolyte for supercapacitor application. *Faraday Discussions*, **2014**, 172, 179-98	3.6	147
163	Alkali metal iodide/carbon interface as a source of pseudocapacitance. *Electrochemistry Communications*, **2011**, 13, 38-41	5.1	147
162	The HSAB concept as a means to interpret the adsorption of metal ions onto activated carbons. *Applied Surface Science*, **2004**, 228, 84-92	6.7	136
161	Electrochemistry serving people and nature: high-energy ecocapacitors based on redox-active electrolytes. *ChemSusChem*, **2012**, 5, 1181-5	8.3	126
160	Effect of binder on the performance of carbon/carbon symmetric capacitors in salt aqueous electrolyte. *Electrochimica Acta*, **2014**, 140, 132-138	6.7	118
159	Carbon nanotubes with PtRu catalyst for methanol fuel cell. *Electrochemistry Communications*, **2006**, 8, 129-132	5.1	117
158	Triethylammonium bis(tetrafluoromethylsulfonyl)amide protic ionic liquid as an electrolyte for electrical double-layer capacitors. *Physical Chemistry Chemical Physics*, **2012**, 14, 8199-207	3.6	114
157	Carbons with narrow pore size distribution prepared by simultaneous carbonization and self-activation of tobacco stems and their application to supercapacitors. *Carbon*, **2015**, 81, 148-157	10.4	112
156	Nanotubular materials as electrodes for supercapacitors. *Fuel Processing Technology*, **2002**, 77-78, 213-219	7.2	108
155	Unusual energy enhancement in carbon-based electrochemical capacitors. *Journal of Materials Chemistry*, **2012**, 22, 24213		105
154	Correlation of the irreversible lithium capacity with the active surface area of modified carbons. *Carbon*, **2005**, 43, 2160-2167	10.4	101
153	Carbon/Layered Double Hydroxide (LDH) Composites for Supercapacitor Application *Energy & Fuels*, **2010**, 24, 3346-3351	4.1	100
152	The first in situ 7Li nuclear magnetic resonance study of lithium insertion in hard-carbon anode materials for Li-ion batteries. *Journal of Chemical Physics*, **2003**, 118, 6038-6045	3.9	99
151	High surface area carbon nanotubes prepared by chemical activation. *Carbon*, **2002**, 40, 1614-1617	10.4	93
150	Fabrication of network films of conducting polymer-linked polyoxometallate-stabilized carbon nanostructures. *Electrochimica Acta*, **2006**, 51, 2373-2379	6.7	92
149	Supercapacitors based on carbon materials and ionic liquids. *Journal of the Brazilian Chemical Society*, **2006**, 17, 1074-1082	1.5	89
148	Electrochemical performance of a hybrid lithium-ion capacitor with a graphite anode preloaded from lithium bis(trifluoromethane)sulfonimide-based electrolyte. *Electrochimica Acta*, **2012**, 86, 282-286	6.7	85

147	State of hydrogen electrochemically stored using nanoporous carbons as negative electrode materials in an aqueous medium. *Carbon*, **2006**, 44, 2392-2398	10.4	84
146	Electrochemical insertion of lithium in catalytic multi-walled carbon nanotubes. *Journal of Power Sources*, **1999**, 81-82, 317-322	8.9	78
145	In Situ 7Li-Nuclear Magnetic Resonance Observation of Reversible Lithium Insertion into Disordered Carbons. *Electrochemical and Solid-State Letters*, **2003**, 6, A225		77
144	Enhancement of Reversible Hydrogen Capacity into Activated Carbon through Water Electrolysis. *Electrochemical and Solid-State Letters*, **2001**, 4, A27		72
143	Electrochemical properties of supercapacitors operating in aqueous electrolyte with surfactants. *Electrochimica Acta*, **2010**, 55, 7484-7488	6.7	69
142	Hybrid materials for supercapacitor application. *Journal of Solid State Electrochemistry*, **2010**, 14, 811-816	2.6	68
141	Interfacial Redox Phenomena for Enhanced Aqueous Supercapacitors. *Journal of the Electrochemical Society*, **2015**, 162, A5140-A5147	3.9	66
140	Effect of various porous nanotextures on the reversible electrochemical sorption of hydrogen in activated carbons. *Electrochimica Acta*, **2006**, 51, 2161-2167	6.7	64
139	High performance of symmetric micro-supercapacitors based on silicon nanowires using N-methyl-N-propylpyrrolidinium bis(trifluoromethylsulfonyl)imide as electrolyte. *Nano Energy*, **2014**, 9, 273-281	17.1	63
138	Supercapacitors: Carbons and Electrolytes for Advanced Supercapacitors (Adv. Mater. 14/2014). *Advanced Materials*, **2014**, 26, 2283-2283	24	61
137	Structural and electrochemical characterisation of nitrogen enriched carbons produced by the co-pyrolysis of coal-tar pitch with polyacrylonitrile. *Electrochimica Acta*, **2004**, 49, 423-432	6.7	61
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135	Synthesis and properties of trigeminal tricationic ionic liquids. *Chemistry - A European Journal*, **2007**, 13, 3106-12	4.8	60
134	Carbon materials modified by plasma treatment as electrodes for supercapacitors. *Journal of Power Sources*, **2010**, 195, 7535-7539	8.9	57
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132	Thermodynamic properties of benzene adsorbed in activated carbons and multi-walled carbon nanotubes. *Chemical Physics Letters*, **2006**, 421, 409-414	2.5	54
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130	Carbon/δMnO2 composites for supercapacitor electrodes. *Journal of Solid State Chemistry*, **2010**, 183, 969-974	3.3	49

129	Electrochemical storage of hydrogen in activated carbons. *Fuel Processing Technology*, **2002**, 77-78, 415-421	7.1	49
128	Carbon-based electrochemical capacitors with acetate aqueous electrolytes. *Electrochimica Acta*, **2016**, 215, 179-186	6.7	46
127	Enhancement of the carbon electrode capacitance by brominated hydroquinones. *Journal of Power Sources*, **2016**, 326, 587-594	8.9	45
126	A better understanding of the irreversible lithium insertion mechanisms in disordered carbons. *Journal of Physics and Chemistry of Solids*, **2004**, 65, 211-217	3.9	45
125	Self-buffered pH at carbon surfaces in aqueous supercapacitors. *Carbon*, **2018**, 129, 758-765	10.4	42
124	Sustainable AC/AC hybrid electrochemical capacitors in aqueous electrolyte approaching the performance of organic systems. *Journal of Power Sources*, **2016**, 326, 652-659	8.9	40
123	Strategies for enhancing the performance of carbon/carbon supercapacitors in aqueous electrolytes. *Electrochimica Acta*, **2014**, 128, 210-217	6.7	39
122	Comparative operando study of degradation mechanisms in carbon-based electrochemical capacitors with Li2SO4 and LiNO3 electrolytes. *Carbon*, **2017**, 120, 281-293	10.4	38
121	Effect of surfactants on capacitance properties of carbon electrodes. *Electrochimica Acta*, **2012**, 60, 206-212	6.7	38
120	High performance supercapacitor from chromium oxide-nanotubes based electrodes. *Chemical Physics Letters*, **2007**, 434, 73-77	2.5	38
119	The effect of halide ion concentration on capacitor performance. *Journal of Applied Electrochemistry*, **2014**, 44, 439-445	2.6	36
118	Carbon science perspective in 2020: Current research and future challenges. *Carbon*, **2020**, 161, 373-391	10.4	35
117	An efficient two-step process for producing opened multi-walled carbon nanotubes of high purity. *Chemical Physics Letters*, **2005**, 404, 374-378	2.5	32
116	Redox active electrolytes in carbon/carbon electrochemical capacitors. *Current Opinion in Electrochemistry*, **2018**, 9, 95-105	7.2	32
115	Influence of aqueous electrolyte concentration on parasitic reactions in high-voltage electrochemical capacitors. *Energy Storage Materials*, **2016**, 5, 111-115	19.4	31
114	Comparative Study of Two Protic Ionic Liquids as Electrolyte for Electrical Double-Layer Capacitors. *Journal of the Electrochemical Society*, **2014**, 161, A228-A238	3.9	30
113	Sorption and desorption of lithium ions from activated carbons. *Carbon*, **1996**, 34, 481-487	10.4	29
112	Effects of post-treatments on the performance of hard carbons in lithium cells. *Journal of Power Sources*, **2001**, 97-98, 143-145	8.9	28

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110	Electrochemical capacitors as attractive power sources. *Solid State Ionics*, **2014**, 265, 61-67	3.3	25
109	Pseudocapacitance Effects for Enhancement of Capacitor Performance. *Fuel Cells*, **2010**, 10, 848-855	2.9	25
108	Influence of the Pyrolysis Conditions on the Nature of Lithium Inserted in Hard Carbons. *Journal of Physical Chemistry A*, **2001**, 105, 5794-5800	2.8	25
107	Agar-based aqueous electrolytes for electrochemical capacitors with reduced self-discharge. *Electrochimica Acta*, **2020**, 332, 135435	6.7	25
106	Engaging nanoporous carbons in "beyond adsorption" applications: Characterization, challenges and performance. *Carbon*, **2020**, 164, 69-84	10.4	24
105	Template-derived high surface area δ-MnO2 for supercapacitor applications. *Journal of Applied Electrochemistry*, **2014**, 44, 123-132	2.6	24
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103	Hybrid aqueous capacitors with improved energy/power performance. *Progress in Natural Science: Materials International*, **2015**, 25, 642-649	3.6	23
102	Mechanism of lithium electrosorption by activated carbons. *Electrochimica Acta*, **2002**, 47, 1545-1553	6.7	22
101	Determination of the space between closed multiwalled carbon nanotubes by GCMC simulation of nitrogen adsorption. *Journal of Colloid and Interface Science*, **2008**, 317, 442-8	9.3	21
100	Electrochemical capacitor with water-based electrolyte operating at wide temperature range. *Journal of Power Sources*, **2019**, 414, 183-191	8.9	20
99	Ageing mechanisms in electrochemical capacitors with aqueous redox-active electrolytes. *Electrochimica Acta*, **2019**, 311, 211-220	6.7	20
98	Revisited insights into charge storage mechanisms in electrochemical capacitors with Li2SO4-based electrolyte. *Energy Storage Materials*, **2019**, 22, 1-14	19.4	20
97	Fuel cell testing of Pt–Ru catalysts supported on differently prepared and pretreated carbon nanotubes. *Electrochimica Acta*, **2013**, 98, 94-103	6.7	20
96	Passivation of zinc in alkaline solution effected by chromates and CrO3–graphite system. *Journal of Power Sources*, **1998**, 73, 175-181	8.9	19
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94	Clay/Carbon Nanocomposites as Precursors of Electrode Materials for Lithium-Ion Batteries and Supercapacitors. *Molecular Crystals and Liquid Crystals*, **2000**, 340, 449-454		19

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91	Electrode Materials with Pseudocapacitive Properties **2013**, 207-237		18
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89	Application of the rotating disk electrode for the investigation of polycrystalline zinc in concentrated alkaline solutions with admixture of polyethylene glycol. *Electrochimica Acta*, **1988**, 33, 441-443	6.7	18
88	Annealing of template nanotubes to well-graphitized multi-walled carbon nanotubes. *Carbon*, **2006**, 44, 814-818	10.4	17
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85	Vanadium-oxygen cell for positive electrolyte discharge in dual-circuit vanadium redox flow battery. *Journal of Power Sources*, **2019**, 439, 227075	8.9	13
84	Electrochemical performance of silicon nanostructures in low-temperature ionic liquids for microelectronic applications. *Journal of Materials Chemistry A*, **2017**, 5, 22708-22716	13	12
83	Mechanisms of the performance fading of carbon-based electrochemical capacitors operating in a LiNO3 electrolyte. *Journal of Power Sources*, **2019**, 438, 227029	8.9	12
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81	Towards more Durable Electrochemical Capacitors by Elucidating the Ageing Mechanisms under Different Testing Procedures. *ChemElectroChem*, **2019**, 6, 566-573	4.3	12
80	Manufacturing of Industrial Supercapacitors **2013**, 307-371		11
79	Asymmetric and Hybrid Devices in Aqueous Electrolytes **2013**, 257-288		10
78	Electrical Double-Layer Capacitors and Pseudocapacitors. *Advanced Materials and Technologies*, **2009**, 329-375		10
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76	Reline deep eutectic solvent as a green electrolyte for electrochemical energy storage applications. *Energy and Environmental Science*,	35.4	10

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74	Carbon electrodes for energy storage: general discussion. *Faraday Discussions*, **2014**, 172, 239-60	3.6	9
73	Selenocyanate-based ionic liquid as redox-active electrolyte for hybrid electrochemical capacitors. *Electrochimica Acta*, **2019**, 314, 1-8	6.7	8
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71	Correlation of hydrogen capacity in carbon material with the parameters of electrosorption. *Open Chemistry*, **2011**, 9, 20-24	1.6	8
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66	Electrochemical capacitors operating in aqueous electrolyte with volumetric characteristics improved by sustainable templating of electrode materials. *Electrochimica Acta*, **2020**, 338, 135788	6.7	6
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61	Electrochemical synthesis of iron supported on exfoliated graphite. *Journal of Physics and Chemistry of Solids*, **1996**, 57, 841-847	3.9	6
60	The influence of polyethylene glycol on some properties of zinc electrodes. *Electrochimica Acta*, **1984**, 29, 1359-1363	6.7	6
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51	Electrode/Electrolyte Interface with Various Redox Couples. *ECS Transactions*, **2014**, 61, 1-8	1	4
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47	Advantages of Electrochemical Hydrogen Storage over Gas Adsorption in Nanoporous Carbons. *European Journal of Control*, **2005**, 30, 531-539	2.5	4
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45	Redox Activity of Bromides in Carbon-Based Electrochemical Capacitors. *Batteries and Supercaps*, **2020**, 3, 1080-1090	5.6	4
44	NOVEL CARBONACEOUS MATERIALS FOR APPLICATION IN THE ELECTROCHEMICAL SUPERCAPACITORS **2006**, 5-20		4
43	Quinone/hydroquinone redox couple as a source of enormous capacitance of activated carbon electrodes. *Materials Research Society Symposia Proceedings*, **2013**, 1505, 1		3
42	General Principles of Electrochemistry **2013**, 1-68		3
41	DEVELOPMENT OF SUPERCAPACITORS BASED ON CONDUCTING POLYMERS **2006**, 41-50		3
40	Carbon Nanotubes as Backbones for Composite Electrodes of Supercapacitors. *AIP Conference Proceedings*, **2004**,	0	3

39	Capacitance properties of carbon nanotubes **1999**,		3
38	Nanotextured Carbons for Electrochemical Energy Storage **2006**,		3
37	Carbon Fluoride Cathode for Lithium Cells **1996**, 85-100		3
36	Supercapacitor with Carbon/MoS2 Composites. *Frontiers in Energy Research*, **2021**, 9,	3.8	3
35	Supercapacitor Module Sizing and Heat Management under Electric, Thermal, and Aging Constraints **2013**, 373-436		2
34	Reliability of Electrochemical Capacitors **2013**, 473-507		2
33	Electrochemical Capacitors Based on Carbon Electrodes in Aqueous Electrolytes. *Advances in Electrochemical Science and Engineering*, **2015**, 285-312		2
32	Effect of surfactants on capacitance properties of carbon electrodes. *Materials Research Society Symposia Proceedings*, **2011**, 1333, 110701		2
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26	Designing nanostructured carbons for the negative electrode of lithium batteries. *Molecular Crystals and Liquid Crystals*, **2002**, 386, 151-157	0.5	2
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21	Application Of Metal Coated Carbon Nanotubes To Direct Methanol Fuel Cells And For The Formation Of Nanowires. *AIP Conference Proceedings*, **2004**,	0	1
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19	Electrochemical properties of Lithiated Carbons. *Molecular Crystals and Liquid Crystals*, **1998**, 310, 365-370		1
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14	Redox activity from the electrolyte and electrode in electrochemical capacitors. *Electrochemistry Communications*, **2022**, 107289	5.1	0
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12	Anticorrosive performance of green deep eutectic solvent for electrochemical capacitor. *Chemical Engineering Journal*, **2022**, 444, 136594	14.7	0
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9	Quinone-Decorated Carbon Materials for Capacitive Energy Storage Applications. *Materials Research Society Symposia Proceedings*, **2014**, 1679, 12		
8	Carbon-Based Nanomaterials for Electrochemical Energy Storage **2013**, 299-326		
7	Carbon-Based Nanomaterials for Electrochemical Energy Storage177-204		
6	Effect of Heteroatoms on Lithium Insertion into Carbons. *Molecular Crystals and Liquid Crystals*, **2000**, 340, 511-516		
5	Improvement of Secondary Zinc Electrodes **1995**, 41-46		
4	MECHANISMS OF REVERSIBLE AND IRREVERSIBLE INSERTION IN NANOSTRUCTURED CARBONS USED FOR Li-ION BATTERIES **2006**, 231-243		

List of Publications

3 Electrochemical Capacitor Performance of Nanotextured Carbon/Transition Metal Dichalcogenides Composites (Small 48/2021). *Small*, **2021**, 17, 2170255 11

2 Nanotextured Carbons for Electrochemical Energy Storage. *Advanced Materials and Technologies*, **2006**, 295-319

1 Redox Mediated Electrolytes in Electrochemical Capacitors