

# Volker Presser

## 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.

257  
papers

25,188  
citations

61  
h-index

156  
g-index

280  
ext. papers

29,929  
ext. citations

10.4  
avg, IF

7.33  
L-index

#	Paper	IF	Citations
257	Ionophobicity of carbon sub-nanometer pores enables efficient desalination at high salinity. <i>Cell Reports Physical Science</i> , <b>2022</b> , 3, 100689	6.1	2
256	Emerging, hydrogen-driven electrochemical water purification. <i>Electrochemistry Communications</i> , <b>2022</b> , 136, 107211	5.1	2
255	Particle size distribution influence on capacitive deionization: Insights for electrode preparation. <i>Desalination</i> , <b>2022</b> , 525, 115503	10.3	5
254	Continuous transition from double-layer to Faradaic charge storage in confined electrolytes. <i>Nature Energy</i> , <b>2022</b> , 7, 222-228	62.3	15
253	Graphene Acid for Lithium-Ion Batteries Carboxylation Boosts Storage Capacity in Graphene. <i>Advanced Energy Materials</i> , <b>2022</b> , 12, 2103010	21.8	6
252	Spray-dried Pneumococcal Membrane Vesicles are Promising Candidates for Pulmonary Immunization.. <i>International Journal of Pharmaceutics</i> , <b>2022</b> , 121794	6.5	2
251	Electro-assisted removal of polar and ionic organic compounds from water using activated carbon felts. <i>Chemical Engineering Journal</i> , <b>2021</b> , 433, 133544	14.7	3
250	Three-Dimensional Cobalt Hydroxide Hollow Cube/Vertical Nanosheets with High Desalination Capacity and Long-Term Performance Stability. <i>Research</i> , <b>2021</b> , 2021, 9754145	7.8	1
249	Superior Wear-Resistance of TiCT Multilayer Coatings. <i>ACS Nano</i> , <b>2021</b> , 15, 8216-8224	16.7	37
248	Electrocatalytic fuel cell desalination for continuous energy and freshwater generation. <i>Cell Reports Physical Science</i> , <b>2021</b> , 2, 100416	6.1	8
247	Monitoring the thermally induced transition from sp <sup>3</sup> -hybridized into sp <sup>2</sup> -hybridized carbons. <i>Carbon</i> , <b>2021</b> , 172, 214-227	10.4	11
246	Dye-Loaded Mechanochromic and pH-Responsive Elastomeric Opal Films. <i>Macromolecular Rapid Communications</i> , <b>2021</b> , 42, e2000557	4.8	2
245	Antimony alloying electrode for high-performance sodium removal: how to use a battery material not stable in aqueous media for saline water remediation. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 585-596	13	6
244	Effect of pore geometry on ultra-densified hydrogen in microporous carbons. <i>Carbon</i> , <b>2021</b> , 173, 968-979	10.4	4
243	Molecular Understanding of Charge Storage in MoS <sub>2</sub> Supercapacitors with Ionic Liquids. <i>Energy and Environmental Materials</i> , <b>2021</b> ,	13	7
242	Titanium Niobium Oxide Ti Nb O /Carbon Hybrid Electrodes Derived by Mechanochemically Synthesized Carbide for High-Performance Lithium-Ion Batteries. <i>ChemSusChem</i> , <b>2021</b> , 14, 398-407	8.3	10
241	Hybrid carbon spherogels: carbon encapsulation of nano-titania. <i>Chemical Communications</i> , <b>2021</b> , 57, 3905-3908	5.8	2

240	Structural and chemical characterization of MoO <sub>2</sub> /MoS <sub>2</sub> triple-hybrid materials using electron microscopy in up to three dimensions. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 1067-1076	5.1	2
239	Electrochemical lithium recovery with lithium iron phosphate: what causes performance degradation and how can we improve the stability?. <i>Sustainable Energy and Fuels</i> , <b>2021</b> , 5, 3124-3133	5.8	5
238	Rings and Chains: Synthesis and Characterization of Polyferrocenylmethylene. <i>Macromolecular Rapid Communications</i> , <b>2021</b> , 42, e2000738	4.8	2
237	Redox-Responsive 2-Aminoanthraquinone Core/Shell Particles for Structural Colors and Carbon Capture. <i>ACS Applied Polymer Materials</i> , <b>2021</b> , 3, 4651-4660	4.3	1
236	In Situ Investigation of Expansion during the Lithiation of Pillared MXenes with Ultralarge Interlayer Distance. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 20791-20797	3.8	
235	Hydration shell energy barrier differences of sub-nanometer carbon pores enable ion sieving and selective ion removal. <i>Chemical Engineering Journal</i> , <b>2021</b> , 419, 129438	14.7	8
234	From capacitive deionization to desalination batteries and desalination fuel cells. <i>Current Opinion in Electrochemistry</i> , <b>2021</b> , 29, 100758	7.2	5
233	Porous Mixed-Metal Oxide Li-Ion Battery Electrodes by Shear-Induced Co-assembly of Precursors and Tailored Polymer Particles.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 61166-61179	9.5	3
232	MXene/Activated-Carbon Hybrid Capacitive Deionization for Permselective Ion Removal at Low and High Salinity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 26013-26025	9.5	41
231	Choosing the right carbon additive is of vital importance for high-performance Sb-based Na-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 6092-6104	13	18
230	High-performance ion removal via zinc-air desalination. <i>Electrochemistry Communications</i> , <b>2020</b> , 115, 106713	5.1	19
229	Pseudocapacitance: From Fundamental Understanding to High Power Energy Storage Materials. <i>Chemical Reviews</i> , <b>2020</b> , 120, 6738-6782	68.1	402
228	Self-Sustained Visible-Light-Driven Electrochemical Redox Desalination. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 32788-32796	9.5	19
227	Polymer ion-exchange membranes for capacitive deionization of aqueous media with low and high salt concentration. <i>Desalination</i> , <b>2020</b> , 479, 114331	10.3	28
226	Comparison of organic electrolytes at various temperatures for 2.8V Li-ion hybrid supercapacitors. <i>Electrochimica Acta</i> , <b>2020</b> , 337, 135760	6.7	9
225	Ion Structure Transition Enhances Charging Dynamics in Subnanometer Pores. <i>ACS Nano</i> , <b>2020</b> , 14, 2395-2403	11.3	29
224	Charge-transfer materials for electrochemical water desalination, ion separation and the recovery of elements. <i>Nature Reviews Materials</i> , <b>2020</b> , 5, 517-538	73.3	168
223	Electrospun vanadium sulfide / carbon hybrid fibers obtained via one-step thermal sulfidation for use as lithium-ion battery electrodes. <i>Journal of Power Sources</i> , <b>2020</b> , 450, 227674	8.9	15

222	Permselective ion electrosorption of subnanometer pores at high molar strength enables capacitive deionization of saline water. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 1285-1295	5.8	23
221	Pinning ultrasmall greigite nanoparticles on graphene for effective transition-metal-sulfide supercapacitors in an ionic liquid electrolyte. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 25716-25726	13	7
220	How to speed up ion transport in nanopores. <i>Nature Communications</i> , <b>2020</b> , 11, 6085	17.4	22
219	Ionic liquid-based synthesis of MXene. <i>Chemical Communications</i> , <b>2020</b> , 56, 11082-11085	5.8	33
218	Hybrid Anodes of Lithium Titanium Oxide and Carbon Onions for Lithium-Ion and Sodium-Ion Energy Storage. <i>Energy Technology</i> , <b>2020</b> , 8, 2000679	3.5	0
217	Persistent and reversible solid iodine electrodeposition in nanoporous carbons. <i>Nature Communications</i> , <b>2020</b> , 11, 4838	17.4	22
216	Combining Battery-Type and Pseudocapacitive Charge Storage in Ag/TiCT MXene Electrode for Capturing Chloride Ions with High Capacitance and Fast Ion Transport. <i>Advanced Science</i> , <b>2020</b> , 7, 2000621	13.6	32
215	Carbide-Derived Niobium Pentoxide with Enhanced Charge Storage Capacity for Use as a Lithium-Ion Battery Electrode. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 4275-4285	6.1	13
214	Dual-Zinc Electrode Electrochemical Desalination. <i>ChemSusChem</i> , <b>2020</b> , 13, 2792-2798	8.3	13
213	Sodium ion removal by hydrated vanadyl phosphate for electrochemical water desalination. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 4175-4184	13	33
212	Nanosized titanium niobium oxide/carbon electrodes for lithium-ion energy storage applications. <i>Sustainable Energy and Fuels</i> , <b>2019</b> , 3, 1776-1789	5.8	6
211	Comparing pore structure models of nanoporous carbons obtained from small angle X-ray scattering and gas adsorption. <i>Carbon</i> , <b>2019</b> , 152, 416-423	10.4	21
210	Low voltage operation of a silver/silver chloride battery with high desalination capacity in seawater.. <i>RSC Advances</i> , <b>2019</b> , 9, 14849-14858	3.7	36
209	High Electrochemical Seawater Desalination Performance Enabled by an Iodide Redox Electrolyte Paired with a Sodium Superionic Conductor. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 10132-10142	8.3	24
208	Reduced Faradaic Contributions and Fast Charging of Nanoporous Carbon Electrodes in a Concentrated Sodium Nitrate Aqueous Electrolyte for Supercapacitors. <i>Energy Technology</i> , <b>2019</b> , 7, 1900430	3.5	15
207	Understanding Interlayer Deprotonation of Hydrogen Titanium Oxide for High-Power Electrochemical Energy Storage. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 3633-3641	6.1	10
206	Gyroidal Niobium Sulfide/Carbon Hybrid Monoliths for Electrochemical Energy Storage. <i>Batteries and Supercaps</i> , <b>2019</b> , 2, 668-672	5.6	5
205	High voltage asymmetric hybrid supercapacitors using lithium- and sodium-containing ionic liquids. <i>Energy Storage Materials</i> , <b>2019</b> , 16, 391-399	19.4	36

204	Reversibly compressible and freestanding monolithic carbon spherogels. <i>Carbon</i> , <b>2019</b> , 153, 189-195	10.4	4
203	Effect of Pore Size on the Ion Electrosorption and Hydrogen/Deuterium Electrosorption Using Sodium Chloride in H <sub>2</sub> O and D <sub>2</sub> O. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A4158-A4167	3.9	6
202	Vanadium (III) Oxide/Carbon Core/Shell Hybrids as an Anode for Lithium-Ion Batteries. <i>Batteries and Supercaps</i> , <b>2019</b> , 2, 74-82	5.6	10
201	Redox-electrolytes for non-flow electrochemical energy storage: A critical review and best practice. <i>Progress in Materials Science</i> , <b>2019</b> , 101, 46-89	42.2	73
200	Ordered Mesoporous Titania/Carbon Hybrid Monoliths for Lithium-ion Battery Anodes with High Areal and Volumetric Capacity. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 6358-6363	4.8	18
199	Systematic comparison of force fields for molecular dynamic simulation of Au(111)/Ionic liquid interfaces. <i>Fluid Phase Equilibria</i> , <b>2018</b> , 463, 106-113	2.5	19
198	Valence-Tuned Lithium Titanate Nanopowder for High-Rate Electrochemical Energy Storage. <i>Batteries and Supercaps</i> , <b>2018</b> , 1, 11-26	5.6	16
197	Design of Carbon/Metal Oxide Hybrids for Electrochemical Energy Storage. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 12143-12153	4.8	27
196	Two-Dimensional Molybdenum Carbide (MXene) with Divacancy Ordering for Brackish and Seawater Desalination via Cation and Anion Intercalation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 3739-3747	8.3	127
195	Water Desalination with Energy Storage Electrode Materials. <i>Joule</i> , <b>2018</b> , 2, 10-15	27.8	163
194	Nitrogen-containing novolac-derived carbon beads as electrode material for supercapacitors. <i>Carbon</i> , <b>2018</b> , 132, 220-231	10.4	55
193	In-situ nanodiamond to carbon onion transformation in metal matrix composites. <i>Carbon</i> , <b>2018</b> , 129, 631-636	10.4	17
192	Electrodeposition of hydrated vanadium pentoxide on nanoporous carbon cloth for hybrid energy storage. <i>Sustainable Energy and Fuels</i> , <b>2018</b> , 2, 577-588	5.8	23
191	Potential-Dependent, Switchable Ion Selectivity in Aqueous Media Using Titanium Disulfide. <i>ChemSusChem</i> , <b>2018</b> , 11, 2091-2100	8.3	23
190	Fast and stable lithium-ion storage kinetics of anatase titanium dioxide/carbon onion hybrid electrodes. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 9480-9488	13	33
189	Charge and Potential Balancing for Optimized Capacitive Deionization Using Lignin-Derived, Low-Cost Activated Carbon Electrodes. <i>ChemSusChem</i> , <b>2018</b> , 11, 2101-2113	8.3	47
188	Continuous silicon oxycarbide fiber mats with tin nanoparticles as a high capacity anode for lithium-ion batteries. <i>Sustainable Energy and Fuels</i> , <b>2018</b> , 2, 215-228	5.8	24
187	Carbon onion/sulfur hybrid cathodes via inverse vulcanization for lithium-sulfur batteries. <i>Sustainable Energy and Fuels</i> , <b>2018</b> , 2, 133-146	5.8	23

186	Binder-Free Hybrid Titanium-Niobium Oxide/Carbon Nanofiber Mats for Lithium-Ion Battery Electrodes. <i>ChemSusChem</i> , <b>2018</b> , 11, 159-170	8.3	27
185	Semi-continuous capacitive deionization using multi-channel flow stream and ion exchange membranes. <i>Desalination</i> , <b>2018</b> , 425, 104-110	10.3	37
184	Valence-Tuned Lithium Titanate Nanopowder for High-Rate Electrochemical Energy Storage. <i>Batteries and Supercaps</i> , <b>2018</b> , 1, 2-2	5.6	1
183	Confined Redox Reactions of Iodide in Carbon Nanopores for Fast and Energy-Efficient Desalination of Brackish Water and Seawater. <i>ChemSusChem</i> , <b>2018</b> , 11, 3460-3472	8.3	30
182	Electrospun Hybrid Vanadium Oxide/Carbon Fiber Mats for Lithium- and Sodium-Ion Battery Electrodes. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 3790-3801	6.1	18
181	Influence of Nitrogen-Doping for Carbide-Derived Carbons on the Supercapacitor Performance in an Organic Electrolyte and an Ionic Liquid. <i>Batteries and Supercaps</i> , <b>2018</b> , 1, 135-148	5.6	13
180	Carbon aerogels with improved flexibility by sphere templating.. <i>RSC Advances</i> , <b>2018</b> , 8, 27326-27331	3.7	9
179	Silicon Oxycarbide Beads from Continuously Produced Polysilsesquioxane as Stable Anode Material for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 2961-2970	6.1	17
178	Enhanced desalination via cell voltage extension of membrane capacitive deionization using an aqueous/organic bi-electrolyte. <i>Desalination</i> , <b>2018</b> , 443, 56-61	10.3	24
177	Ordered Mesoporous Carbons with High Micropore Content and Tunable Structure Prepared by Combined Hard and Salt Templating as Electrode Materials in Electric Double-Layer Capacitors. <i>Advanced Sustainable Systems</i> , <b>2018</b> , 2, 1700128	5.9	36
176	Salt concentration and charging velocity determine ion charge storage mechanism in nanoporous supercapacitors. <i>Nature Communications</i> , <b>2018</b> , 9, 4145	17.4	53
175	In Situ Tracking of Partial Sodium Desolvation of Materials with Capacitive, Pseudocapacitive, and Battery-like Charge/Discharge Behavior in Aqueous Electrolytes. <i>Langmuir</i> , <b>2018</b> , 34, 13132-13143	4	15
174	Gyroidal Porous Carbon Activated with NH <sub>3</sub> or CO <sub>2</sub> as Lithium-Sulfur Battery Cathodes. <i>Batteries and Supercaps</i> , <b>2018</b> , 1, 83-94	5.6	10
173	Atomic Layer-Deposited Molybdenum Oxide/Carbon Nanotube Hybrid Electrodes: The Influence of Crystal Structure on Lithium-Ion Capacitor Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 18675-18684	9.5	30
172	Mechanochemical synthesis of porous carbon at room temperature with a highly ordered sp <sup>2</sup> microstructure. <i>Carbon</i> , <b>2018</b> , 139, 325-333	10.4	27
171	Vanadia/Titania multilayer nanodecoration of carbon onions via atomic layer deposition for high performance electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 2792-2801	13	16
170	Quantification of ion confinement and desolvation in nanoporous carbon supercapacitors with modelling and in situ X-ray scattering. <i>Nature Energy</i> , <b>2017</b> , 2,	62.3	157
169	Asymmetric tin/vanadium redox electrolyte for hybrid energy storage with nanoporous carbon electrodes. <i>Sustainable Energy and Fuels</i> , <b>2017</b> , 1, 299-307	5.8	41

168	Hydrogen-treated, sub-micrometer carbon beads for fast capacitive deionization with high performance stability. <i>Carbon</i> , <b>2017</b> , 117, 46-54	10.4	42
167	Solvent-Free Mechanochemical Synthesis of Nitrogen-Doped Nanoporous Carbon for Electrochemical Energy Storage. <i>ChemSusChem</i> , <b>2017</b> , 10, 2416-2424	8.3	94
166	Microporous novolac-derived carbon beads/sulfur hybrid cathode for lithium-sulfur batteries. <i>Journal of Power Sources</i> , <b>2017</b> , 357, 198-208	8.9	27
165	Tuning pseudocapacitive and battery-like lithium intercalation in vanadium dioxide/carbon onion hybrids for asymmetric supercapacitor anodes. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 13039-13051	13	34
164	Nanoconfinement of redox reactions enables rapid zinc iodide energy storage with high efficiency. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 12520-12527	13	54
163	Enhanced performance stability of carbon/titania hybrid electrodes during capacitive deionization of oxygen saturated saline water. <i>Electrochimica Acta</i> , <b>2017</b> , 224, 314-328	6.7	73
162	Carbon onion-sulfur hybrid cathodes for lithium-sulfur batteries. <i>Sustainable Energy and Fuels</i> , <b>2017</b> , 1, 84-94	5.8	28
161	Tailored Mesoporous Carbon/Vanadium Pentoxide Hybrid Electrodes for High Power Pseudocapacitive Lithium and Sodium Intercalation. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 8653-8662	9.6	29
160	Mechanochemistry-assisted synthesis of hierarchical porous carbons applied as supercapacitors. <i>Beilstein Journal of Organic Chemistry</i> , <b>2017</b> , 13, 1332-1341	2.5	19
159	Quantitative Information about Electrosorption of Ionic Liquids in Carbon Nanopores from Electrochemical Dilatometry and Quartz Crystal Microbalance Measurements. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 19120-19128	3.8	18
158	Carbide-derived carbon beads with tunable nanopores from continuously produced polysilsesquioxanes for supercapacitor electrodes. <i>Sustainable Energy and Fuels</i> , <b>2017</b> , 1, 1588-1600	5.8	23
157	Concentration-Gradient Multichannel Flow-Stream Membrane Capacitive Deionization Cell for High Desalination Capacity of Carbon Electrodes. <i>ChemSusChem</i> , <b>2017</b> , 10, 4914-4920	8.3	57
156	Pseudocapacitive Desalination of Brackish Water and Seawater with Vanadium-Pentoxide-Decorated Multiwalled Carbon Nanotubes. <i>ChemSusChem</i> , <b>2017</b> , 10, 3611-3623	8.3	56
155	In Situ Multilength-Scale Tracking of Dimensional and Viscoelastic Changes in Composite Battery Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 27664-27675	9.5	18
154	Titanium Disulfide: A Promising Low-Dimensional Electrode Material for Sodium Ion Intercalation for Seawater Desalination. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 9964-9973	9.6	82
153	In situ multi-length scale approach to understand the mechanics of soft and rigid binder in composite lithium ion battery electrodes. <i>Journal of Power Sources</i> , <b>2017</b> , 371, 162-166	8.9	18
152	Influence of pore structure and cell voltage of activated carbon cloth as a versatile electrode material for capacitive deionization. <i>Carbon</i> , <b>2017</b> , 122, 329-335	10.4	115
151	Faradaic deionization of brackish and sea water via pseudocapacitive cation and anion intercalation into few-layered molybdenum disulfide. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 15640-15649	13	117

150	Influence of carbon distribution on the electrochemical performance and stability of lithium titanate based energy storage devices. <i>Electrochimica Acta</i> , <b>2017</b> , 247, 1006-1018	6.7	26
149	In Situ Measurement of Electrosorption-Induced Deformation Reveals the Importance of Micropores in Hierarchical Carbons. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 23319-23324	9.5	25
148	A carbon nanopore model to quantify structure and kinetics of ion electrosorption with in situ small-angle X-ray scattering. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 15549-15561	3.6	30
147	High Performance Hybrid Energy Storage with Potassium Ferricyanide Redox Electrolyte. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 23676-87	9.5	94
146	Porous carbon as a quasi-reference electrode in aqueous electrolytes. <i>Electrochimica Acta</i> , <b>2016</b> , 222, 1800-1805	6.7	25
145	Increase in Capacitance by Subnanometer Pores in Carbon. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 1262-1265	20.1	133
144	Niobium carbide nanofibers as a versatile precursor for high power supercapacitor and high energy battery electrodes. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 16003-16016	13	41
143	High performance stability of titania decorated carbon for desalination with capacitive deionization in oxygenated water. <i>RSC Advances</i> , <b>2016</b> , 6, 106081-106089	3.7	28
142	Influence of carbon substrate on the electrochemical performance of carbon/manganese oxide hybrids in aqueous and organic electrolytes. <i>RSC Advances</i> , <b>2016</b> , 6, 107163-107179	3.7	14
141	Electrochemical in Situ Tracking of Volumetric Changes in Two-Dimensional Metal Carbides (MXenes) in Ionic Liquids. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 32089-32093	9.5	60
140	Carbon as Quasi-Reference Electrode in Unconventional Lithium-Salt Containing Electrolytes for Hybrid Battery/Supercapacitor Devices. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, A2956-A2964	3.9	25
139	Upcycling spent petroleum cracking catalyst: pulsed laser deposition of single-wall carbon nanotubes and silica nanowires. <i>RSC Advances</i> , <b>2016</b> , 6, 72596-72606	3.7	3
138	Vanadium pentoxide/carbide-derived carbon core-shell hybrid particles for high performance electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 18899-18909	13	27
137	MXene as a novel intercalation-type pseudocapacitive cathode and anode for capacitive deionization. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 18265-18271	13	247
136	Tin/vanadium redox electrolyte for battery-like energy storage capacity combined with supercapacitor-like power handling. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 3392-3398	35.4	95
135	Capacitive deionization in organic solutions: case study using propylene carbonate. <i>RSC Advances</i> , <b>2016</b> , 6, 5865-5870	3.7	24
134	Performance evaluation of conductive additives for activated carbon supercapacitors in organic electrolyte. <i>Electrochimica Acta</i> , <b>2016</b> , 191, 284-298	6.7	47
133	Review: carbon anions for electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 3172-3196	13	271



132	Quartz Crystal Microbalance with Dissipation Monitoring (EQCM-D) for in-situ studies of electrodes for supercapacitors and batteries: A mini-review. <i>Electrochemistry Communications</i> , <b>2016</b> , 67, 16-21	5.1	57
131	Enhanced Electrochemical Energy Storage by Nanoscopic Decoration of Endohedral and Exohedral Carbon with Vanadium Oxide via Atomic Layer Deposition. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 2802-2813	9.6	37
130	Use of Surfactants for Continuous Operation of Aqueous Electrochemical Flow Capacitors. <i>Energy Technology</i> , <b>2016</b> , 4, 75-84	3.5	32
129	Sub-micrometer Novolac-Derived Carbon Beads for High Performance Supercapacitors and Redox Electrolyte Energy Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 9104-15	9.5	43
128	Novel in situ multiharmonic EQCM-D approach to characterize complex carbon pore architectures for capacitive deionization of brackish water. <i>Journal of Physics Condensed Matter</i> , <b>2016</b> , 28, 114001	1.8	18
127	In situ hydrodynamic spectroscopy for structure characterization of porous energy storage electrodes. <i>Nature Materials</i> , <b>2016</b> , 15, 570-5	27	65
126	High-Temperature Neutron Diffraction, Raman Spectroscopy, and First-Principles Calculations of Ti <sub>3</sub> SnC <sub>2</sub> and Ti <sub>2</sub> SnC. <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 2233-2242	3.8	10
125	Anomalous or regular capacitance? The influence of pore size dispersity on double-layer formation. <i>Journal of Power Sources</i> , <b>2016</b> , 326, 660-671	8.9	98
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