

Nicolas Jckel

List of Publications by Citations

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42
papers

2,498
citations

27
h-index

47
g-index

47
ext. papers

2,802
ext. citations

10.4
avg, IF

5.15
L-index

#	Paper	IF	Citations
42	Review: carbon onions for electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3172-3196	13	271
41	MXene as a novel intercalation-type pseudocapacitive cathode and anode for capacitive deionization. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 18265-18271	13	247
40	Graphitization as a Universal Tool to Tailor the Potential-Dependent Capacitance of Carbon Supercapacitors. <i>Advanced Energy Materials</i> , 2014 , 4, 1400316	21.8	168
39	Quantification of ion confinement and desolvation in nanoporous carbon supercapacitors with modelling and in situ X-ray scattering. <i>Nature Energy</i> , 2017 , 2,	62.3	157
38	Increase in Capacitance by Subnanometer Pores in Carbon. <i>ACS Energy Letters</i> , 2016 , 1, 1262-1265	20.1	133
37	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> , 2017 , 5, 15640-15649	13	117
36	Anomalous or regular capacitance? The influence of pore size dispersity on double-layer formation. <i>Journal of Power Sources</i> , 2016 , 326, 660-671	8.9	98
35	Solvent-Free Mechanochemical Synthesis of Nitrogen-Doped Nanoporous Carbon for Electrochemical Energy Storage. <i>ChemSusChem</i> , 2017 , 10, 2416-2424	8.3	94
34	Understanding structure and porosity of nanodiamond-derived carbon onions. <i>Carbon</i> , 2015 , 84, 584-598	10.4	89
33	Comparison of carbon onions and carbon blacks as conductive additives for carbon supercapacitors in organic electrolytes. <i>Journal of Power Sources</i> , 2014 , 272, 1122-1133	8.9	75
32	Enhanced performance stability of carbon/titania hybrid electrodes during capacitive deionization of oxygen saturated saline water. <i>Electrochimica Acta</i> , 2017 , 224, 314-328	6.7	73
31	Polyvinylpyrrolidone as binder for castable supercapacitor electrodes with high electrochemical performance in organic electrolytes. <i>Journal of Power Sources</i> , 2014 , 266, 374-383	8.9	72
30	In situ hydrodynamic spectroscopy for structure characterization of porous energy storage electrodes. <i>Nature Materials</i> , 2016 , 15, 570-5	27	65
29	Electrochemical in Situ Tracking of Volumetric Changes in Two-Dimensional Metal Carbides (MXenes) in Ionic Liquids. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 32089-32093	9.5	60
28	Enhanced capacitance of nitrogen-doped hierarchically porous carbide-derived carbon in matched ionic liquids. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 18906-18912	13	57
27	Improved capacitive deionization performance of mixed hydrophobic/hydrophilic activated carbon electrodes. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 114003	1.8	50
26	Vacuum or flowing argon: What is the best synthesis atmosphere for nanodiamond-derived carbon onions for supercapacitor electrodes?. <i>Carbon</i> , 2015 , 94, 507-517	10.4	48

25	Performance evaluation of conductive additives for activated carbon supercapacitors in organic electrolyte. <i>Electrochimica Acta</i> , 2016 , 191, 284-298	6.7	47
24	Sub-micrometer Novolac-Derived Carbon Beads for High Performance Supercapacitors and Redox Electrolyte Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 9104-15	9.5	43
23	Asymmetric tin/vanadium redox electrolyte for hybrid energy storage with nanoporous carbon electrodes. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 299-307	5.8	41
22	Niobium carbide nanofibers as a versatile precursor for high power supercapacitor and high energy battery electrodes. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 16003-16016	13	41
21	Electrospinning and electro spraying of silicon oxycarbide-derived nanoporous carbon for supercapacitor electrodes. <i>Journal of Power Sources</i> , 2016 , 313, 178-188	8.9	41
20	Enhanced Electrochemical Energy Storage by Nanoscopic Decoration of Endohedral and Exohedral Carbon with Vanadium Oxide via Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2016 , 28, 2802-2813	9.6	37
19	Tuning pseudocapacitive and battery-like lithium intercalation in vanadium dioxide/carbon onion hybrids for asymmetric supercapacitor anodes. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13039-13051	13	34
18	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> , 2017 , 19, 15549-15561	3.6	30
17	High performance stability of titania decorated carbon for desalination with capacitive deionization in oxygenated water. <i>RSC Advances</i> , 2016 , 6, 106081-106089	3.7	28
16	Non-invasive in situ dynamic monitoring of elastic properties of composite battery electrodes by EQCM-D. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 12353-6	16.4	28
15	Electrospinning of ultrafine metal oxide/carbon and metal carbide/carbon nanocomposite fibers. <i>RSC Advances</i> , 2015 , 5, 35683-35692	3.7	27
14	Influence of carbon distribution on the electrochemical performance and stability of lithium titanate based energy storage devices. <i>Electrochimica Acta</i> , 2017 , 247, 1006-1018	6.7	26
13	Porous carbon as a quasi-reference electrode in aqueous electrolytes. <i>Electrochimica Acta</i> , 2016 , 222, 1800-1805	6.7	25
12	Carbon as Quasi-Reference Electrode in Unconventional Lithium-Salt Containing Electrolytes for Hybrid Battery/Supercapacitor Devices. <i>Journal of the Electrochemical Society</i> , 2016 , 163, A2956-A2964	3.9	25
11	In Situ Measurement of Electrosorption-Induced Deformation Reveals the Importance of Micropores in Hierarchical Carbons. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 23319-23324	9.5	25
10	Mechanochemistry-assisted synthesis of hierarchical porous carbons applied as supercapacitors. <i>Beilstein Journal of Organic Chemistry</i> , 2017 , 13, 1332-1341	2.5	19
9	Emulsion soft templating of carbide-derived carbon nanospheres with controllable porosity for capacitive electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 17983-17990	13	18
8	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> , 2017 , 121, 19120-19128	3.8	18

7	In Situ Multilength-Scale Tracking of Dimensional and Viscoelastic Changes in Composite Battery Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 27664-27675	9.5	18
6	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> , 2017 , 371, 162-166	8.9	18
5	Silicon Oxycarbide Beads from Continuously Produced Polysilsesquioxane as Stable Anode Material for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2018 , 1, 2961-2970	6.1	17
4	Sputtering of sub-micrometer aluminum layers as compact, high-performance, light-weight current collector for supercapacitors. <i>Journal of Power Sources</i> , 2016 , 329, 432-440	8.9	10
3	Non-Invasive In Situ Dynamic Monitoring of Elastic Properties of Composite Battery Electrodes by EQCM-D. <i>Angewandte Chemie</i> , 2015 , 127, 12530-12533	3.6	5
2	Methods for the Development of Collaborative Embedded Systems in Automated Vehicles. <i>ATZelectronics Worldwide</i> , 2020 , 15, 58-63	0.1	1
1	Methoden für die Entwicklung kollaborativer eingebetteter Systeme in automatisierten Fahrzeugen. <i>ATZelektronik</i> , 2020 , 15, 60-65	0	