

Simon Fleischmann

List of Publications by Year in descending order

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41
papers

3,058
citations

218677

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42
times ranked

3327
citing authors

#	ARTICLE	IF	CITATIONS
1	Continuous transition from double-layer to Faradaic charge storage in confined electrolytes. <i>Nature Energy</i> , 2022, 7, 222-228.	39.5	130
2	Effects of Interlayer Properties on Electrochemical Ion Intercalation and Electrosorption in Layered and 2D Electrode Materials. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 74-74.	0.0	0
3	Structural and chemical characterization of MoO ₂ /MoS ₂ triple-hybrid materials using electron microscopy in up to three dimensions. <i>Nanoscale Advances</i> , 2021, 3, 1067-1076.	4.6	2
4	Engineering the Interlayer Spacing by Pre-Intercalation for High Performance Supercapacitor MXene Electrodes in Room Temperature Ionic Liquid. <i>Advanced Functional Materials</i> , 2021, 31, 2104007.	14.9	64
5	Engineering the Interlayer Spacing by Pre-Intercalation for High Performance Supercapacitor MXene Electrodes in Room Temperature Ionic Liquid (<i>Adv. Funct. Mater.</i> 33/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170246.	14.9	2
6	Fast Proton Insertion in Layered H ₂ W ₂ O ₇ via Selective Etching of an Aurivillius Phase. <i>Advanced Energy Materials</i> , 2021, 11, .	19.5	16
7	Electrochemically Induced Deformation Determines the Rate of Lithium Intercalation in Bulk TiS ₂ . <i>ACS Energy Letters</i> , 2021, 6, 4173-4178.	17.4	11
8	Interlayer separation in hydrogen titanates enables electrochemical proton intercalation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 412-421.	10.3	28
9	Electrochemical Reactivity under Confinement Enabled by Molecularly Pillared 2D and Layered Materials. <i>Chemistry of Materials</i> , 2020, 32, 3325-3334.	6.7	32
10	Pseudocapacitance: From Fundamental Understanding to High Power Energy Storage Materials. <i>Chemical Reviews</i> , 2020, 120, 6738-6782.	47.7	1,020
11	Confined Interlayer Water Promotes Structural Stability for High-Rate Electrochemical Proton Intercalation in Tungsten Oxide Hydrates. <i>ACS Energy Letters</i> , 2019, 4, 2805-2812.	17.4	88
12	Nanosized titanium niobium oxide/carbon electrodes for lithium-ion energy storage applications. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1776-1789.	4.9	7
13	Understanding Interlayer Deprotonation of Hydrogen Titanium Oxide for High-Power Electrochemical Energy Storage. <i>ACS Applied Energy Materials</i> , 2019, 2, 3633-3641.	5.1	13
14	Gyroidal Niobium Sulfide/Carbon Hybrid Monoliths for Electrochemical Energy Storage. <i>Batteries and Supercaps</i> , 2019, 2, 668-672.	4.7	8
15	Vanadium (III) Oxide/Carbon Core/Shell Hybrids as an Anode for Lithium-Ion Batteries. <i>Batteries and Supercaps</i> , 2019, 2, 74-82.	4.7	10
16	Redox-electrolytes for non-flow electrochemical energy storage: A critical review and best practice. <i>Progress in Materials Science</i> , 2019, 101, 46-89.	32.8	111
17	Ordered Mesoporous Titania/Carbon Hybrid Monoliths for Lithium-Ion Battery Anodes with High Areal and Volumetric Capacity. <i>Chemistry - A European Journal</i> , 2018, 24, 6358-6363.	3.3	27
18	Design of Carbon/Metal Oxide Hybrids for Electrochemical Energy Storage. <i>Chemistry - A European Journal</i> , 2018, 24, 12143-12153.	3.3	37

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19	Potential-Dependent, Switchable Ion Selectivity in Aqueous Media Using Titanium Disulfide. <i>ChemSusChem</i> , 2018, 11, 2091-2100.	6.8	33
20	Fast and stable lithium-ion storage kinetics of anatase titanium dioxide/carbon onion hybrid electrodes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9480-9488.	10.3	43
21	Carbon onion/sulfur hybrid cathodes <i>via</i> inverse vulcanization for lithium-sulfur batteries. <i>Sustainable Energy and Fuels</i> , 2018, 2, 133-146.	4.9	36
22	Binder-Free Hybrid Titanium-Niobium Oxide/Carbon Nanofiber Mats for Lithium-Ion Battery Electrodes. <i>ChemSusChem</i> , 2018, 11, 159-170.	6.8	30
23	Frontispiece: Design of Carbon/Metal Oxide Hybrids for Electrochemical Energy Storage. <i>Chemistry - A European Journal</i> , 2018, 24, .	3.3	0
24	Atomic Layer-Deposited Molybdenum Oxide/Carbon Nanotube Hybrid Electrodes: The Influence of Crystal Structure on Lithium-Ion Capacitor Performance. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 18675-18684.	8.0	37
25	Electrospun Hybrid Vanadium Oxide/Carbon Fiber Mats for Lithium- and Sodium-Ion Battery Electrodes. <i>ACS Applied Energy Materials</i> , 2018, 1, 3790-3801.	5.1	21
26	Vanadia-titania multilayer nanodecoration of carbon onions via atomic layer deposition for high performance electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2792-2801.	10.3	19
27	Asymmetric tin-vanadium redox electrolyte for hybrid energy storage with nanoporous carbon electrodes. <i>Sustainable Energy and Fuels</i> , 2017, 1, 299-307.	4.9	49
28	Hydrogen-treated, sub-micrometer carbon beads for fast capacitive deionization with high performance stability. <i>Carbon</i> , 2017, 117, 46-54.	10.3	50
29	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.	10.3	41
30	Nanoconfinement of redox reactions enables rapid zinc iodide energy storage with high efficiency. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12520-12527.	10.3	80
31	Enhanced performance stability of carbon/titania hybrid electrodes during capacitive deionization of oxygen saturated saline water. <i>Electrochimica Acta</i> , 2017, 224, 314-328.	5.2	98
32	Carbon onion-sulfur hybrid cathodes for lithium-sulfur batteries. <i>Sustainable Energy and Fuels</i> , 2017, 1, 84-94.	4.9	34
33	Tailored Mesoporous Carbon/Vanadium Pentoxide Hybrid Electrodes for High Power Pseudocapacitive Lithium and Sodium Intercalation. <i>Chemistry of Materials</i> , 2017, 29, 8653-8662.	6.7	34
34	Influence of pore structure and cell voltage of activated carbon cloth as a versatile electrode material for capacitive deionization. <i>Carbon</i> , 2017, 122, 329-335.	10.3	149
35	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.	10.3	167
36	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.	10.3	51

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37	High performance stability of titania decorated carbon for desalination with capacitive deionization in oxygenated water. RSC Advances, 2016, 6, 106081-106089.	3.6	32
38	Influence of carbon substrate on the electrochemical performance of carbon/manganese oxide hybrids in aqueous and organic electrolytes. RSC Advances, 2016, 6, 107163-107179.	3.6	14
39	Vanadium pentoxide/carbide-derived carbon core-shell hybrid particles for high performance electrochemical energy storage. Journal of Materials Chemistry A, 2016, 4, 18899-18909.	10.3	30
40	MXene as a novel intercalation-type pseudocapacitive cathode and anode for capacitive deionization. Journal of Materials Chemistry A, 2016, 4, 18265-18271.	10.3	358
41	Enhanced Electrochemical Energy Storage by Nanoscopic Decoration of Endohedral and Exohedral Carbon with Vanadium Oxide via Atomic Layer Deposition. Chemistry of Materials, 2016, 28, 2802-2813.	6.7	44