

Veronica Augustyn

List of Publications by Year in descending order

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43
papers

13,020
citations

236833

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all docs

46
docs citations

46
times ranked

13280
citing authors

#	ARTICLE	IF	CITATIONS
1	Pseudocapacitive oxide materials for high-rate electrochemical energy storage. <i>Energy and Environmental Science</i> , 2014, 7, 1597.	15.6	4,223
2	High-rate electrochemical energy storage through Li ⁺ intercalation pseudocapacitance. <i>Nature Materials</i> , 2013, 12, 518-522.	13.3	4,021
3	Pseudocapacitance: From Fundamental Understanding to High Power Energy Storage Materials. <i>Chemical Reviews</i> , 2020, 120, 6738-6782.	23.0	1,020
4	High-performance Supercapacitors Based on Intertwined CNT/V ₂ O ₅ Nanowire Nanocomposites. <i>Advanced Materials</i> , 2011, 23, 791-795.	11.1	788
5	New Porous Crystals of Extended Metal-Catecholates. <i>Chemistry of Materials</i> , 2012, 24, 3511-3513.	3.2	618
6	The Effect of Crystallinity on the Rapid Pseudocapacitive Response of Nb ₂ O ₅ . <i>Advanced Energy Materials</i> , 2012, 2, 141-148.	10.2	461
7	Enhancing Pseudocapacitive Charge Storage in Polymer Templated Mesoporous Materials. <i>Accounts of Chemical Research</i> , 2013, 46, 1113-1124.	7.6	254
8	Electrochemical Kinetics of Nanostructured Nb ₂ O ₅ Electrodes. <i>Journal of the Electrochemical Society</i> , 2014, 161, A718-A725.	1.3	235
9	Transition from Battery to Pseudocapacitor Behavior via Structural Water in Tungsten Oxide. <i>Chemistry of Materials</i> , 2017, 29, 3928-3937.	3.2	175
10	Continuous transition from double-layer to Faradaic charge storage in confined electrolytes. <i>Nature Energy</i> , 2022, 7, 222-228.	19.8	130
11	Effects of interlayer confinement and hydration on capacitive charge storage in birnessite. <i>Nature Materials</i> , 2021, 20, 1689-1694.	13.3	119
12	2D Materials with Nanoconfined Fluids for Electrochemical Energy Storage. <i>Joule</i> , 2017, 1, 443-452.	11.7	104
13	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.	8.8	88
14	Nanostructured Pseudocapacitors Based on Atomic Layer Deposition of V ₂ O ₅ onto Conductive Nanocrystal-based Mesoporous ITO Scaffolds. <i>Advanced Functional Materials</i> , 2014, 24, 6717-6728.	7.8	76
15	Lithium-ion storage properties of titanium oxide nanosheets. <i>Materials Horizons</i> , 2014, 1, 219-223.	6.4	70
16	Tuning the interlayer of transition metal oxides for electrochemical energy storage. <i>Journal of Materials Research</i> , 2017, 32, 2-15.	1.2	67
17	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.	7.8	64
18	Electrochemical Intercalation of Mg ²⁺ into Anhydrous and Hydrated Crystalline Tungsten Oxides. <i>Langmuir</i> , 2017, 33, 9314-9323.	1.6	57

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19	Transition metal oxides for aqueous sodium-ion electrochemical energy storage. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 999-1015.	3.0	57
20	<i>Operando</i> Atomic Force Microscopy Reveals Mechanics of Structural Water Driven Battery-to-Pseudocapacitor Transition. <i>ACS Nano</i> , 2018, 12, 6032-6039.	7.3	50
21	Vanadium oxide aerogels: Nanostructured materials for enhanced energy storage. <i>Comptes Rendus Chimie</i> , 2010, 13, 130-141.	0.2	42
22	Electrochemical Reactivity under Confinement Enabled by Molecularly Pillared 2D and Layered Materials. <i>Chemistry of Materials</i> , 2020, 32, 3325-3334.	3.2	32
23	Toward an Atomistic Understanding of Solid-State Electrochemical Interfaces for Energy Storage. <i>Joule</i> , 2018, 2, 2189-2193.	11.7	29
24	Enhanced Electrochemical Lithium-Ion Charge Storage of Iron Oxide Nanosheets. <i>Chemistry of Materials</i> , 2017, 29, 7794-7807.	3.2	28
25	Interlayer separation in hydrogen titanates enables electrochemical proton intercalation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 412-421.	5.2	28
26	Probing local electrochemistry via mechanical cyclic voltammetry curves. <i>Nano Energy</i> , 2021, 81, 105592.	8.2	23
27	Charge storage mechanism and degradation of P2-type sodium transition metal oxides in aqueous electrolytes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22266-22276.	5.2	22
28	Free-standing transition metal oxide electrode architectures for electrochemical energy storage. <i>Journal of Materials Science</i> , 2019, 54, 13045-13069.	1.7	20
29	Effect of water in a non-aqueous electrolyte on electrochemical Mg ²⁺ insertion into WO ₃ . <i>Journal of Power Sources</i> , 2020, 477, 229015.	4.0	18
30	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, .	10.2	16
31	Intrinsic limitations of atomic layer deposition for pseudocapacitive metal oxides in porous electrochemical capacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13086-13097.	5.2	15
32	Sulfidation and selenidation of nickel nanoparticles. , 2020, 3, 582.		10
33	Electrochemical proton insertion modulates the hydrogen evolution reaction on tungsten oxides. <i>Journal of Chemical Physics</i> , 2022, 156, 064704.	1.2	10
34	Understanding electrochemical cation insertion into prussian blue from electrode deformation and mass changes. <i>Chemical Communications</i> , 2021, 57, 6744-6747.	2.2	9
35	Deformation during Electrosorption and Insertion-Type Charge Storage: Origins, Characterization, and Design of Materials for High Power. <i>ACS Energy Letters</i> , 2020, 5, 3548-3559.	8.8	8
36	Critical Role of Structural Water for Enhanced Li ⁺ Insertion Kinetics in Crystalline Tungsten Oxides. <i>Journal of the Electrochemical Society</i> , 2022, 169, 030534.	1.3	7

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37	Frontiers in hybrid and interfacial materials chemistry research. MRS Bulletin, 2020, 45, 951-964.	1.7	6
38	Decoupling Proton and Cation Contributions to Capacitive Charge Storage in Birnessite in Aqueous Electrolytes. ChemElectroChem, 2021, 8, 4371-4379.	1.7	6
39	High Power Energy Storage via Electrochemically Expanded and Hydrated Manganese-Rich Oxides. Frontiers in Chemistry, 2020, 8, 715.	1.8	5
40	Toward Deterministic 3D Energy Storage Electrode Architectures via Electrodeposition of Molybdenum Oxide onto CNT Foams. Energy & Fuels, 0, , .	2.5	3
41	Engineering the Interlayer Spacing by Pre-Intercalation for High Performance Supercapacitor MXene Electrodes in Room Temperature Ionic Liquid (Adv. Funct. Mater. 33/2021). Advanced Functional Materials, 2021, 31, 2170246.	7.8	2
42	Electrochemical reactivity of atomic and molecular species under solid-state confinement. Current Opinion in Electrochemistry, 2022, 34, 101014.	2.5	2
43	Acquisition of a microscope for in situ studies of hard and soft matter. Microscopy and Microanalysis, 2018, 24, 2332-2333.	0.2	0