Xuehang Wang

List of Publications by Year
in descending order

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35 papers	3,734 citations	218592 26 h-index	377752 34 g-index
39 all docs	39 docs citations	39 times ranked	4131 citing authors

#	Article	IF	Citations
1	Surface Redox Pseudocapacitance of Partially Oxidized Titanium Carbide MXene in Water-in-Salt Electrolyte. ACS Energy Letters, 2022, 7, 30-35.	8.8	43
2	Ion Intercalation Process in MXene Pseudocapacitors With Aqueous and Non-Aqueous Electrolytes. , 2022, , .		0
3	Water dynamics in pristine and porous <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ti</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">C</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">T</mml:mi><mml:mi>x</mml:mi></mml:msub></mml:mrow></mml:math> MXene as probed by quasielastic neutron scattering. Physical Review Materials, 2022, 6, .	0.9	1
4	Intercalationâ€Induced Reversible Electrochromic Behavior of Twoâ€Dimensional Ti₃C₂T_x MXene in Organic Electrolytes. ChemElectroChem, 2021, 8, 151-156.	1.7	21
5	Microscopic Insight to Nonlinear Voltage Dependence of Charge in Carbon-Ionic Liquid Supercapacitors. Energy Material Advances, 2021, 2021, .	4.7	7
6	Design and characterization of 2D MXene-based electrode with high-rate capability. MRS Bulletin, 2021, 46, 755-766.	1.7	9
7	Titanium Carbide MXene Shows an Electrochemical Anomaly in Water-in-Salt Electrolytes. ACS Nano, 2021, 15, 15274-15284.	7.3	56
8	Adjustable electrochemical properties of solid-solution MXenes. Nano Energy, 2021, 88, 106308.	8.2	55
9	An Ultrafast Conducting Polymer@MXene Positive Electrode with High Volumetric Capacitance for Advanced Asymmetric Supercapacitors. Small, 2020, 16, e1906851.	5.2	186
10	Low-Temperature pseudocapacitive energy storage in Ti3C2T MXene. Energy Storage Materials, 2020, 33, 382-389.	9.5	61
11	Maximizing ion accessibility in MXene-knotted carbon nanotube composite electrodes for high-rate electrochemical energy storage. Nature Communications, 2020, 11, 6160.	5.8	183
12	Electrode materialâ€“ionic liquid coupling for electrochemical energy storage. Nature Reviews Materials, 2020, 5, 787-808.	23.3	210
13	3D MXene Architectures for Efficient Energy Storage and Conversion. Advanced Functional Materials, 2020, 30, 2000842.	7.8	276
14	All-pseudocapacitive asymmetric MXene-carbon-conducting polymer supercapacitors. Nano Energy, 2020, 75, 104971.	8.2	119
15	Bath Electrospinning of Continuous and Scalable Multifunctional MXeneâ€Infiltrated Nanoyarns. Small, 2020, 16, e2002158.	5.2	81
16	Ion Structure Transition Enhances Charging Dynamics in Subnanometer Pores. ACS Nano, 2020, 14, 2395-2403.	7.3	52
17	Stable high-voltage aqueous pseudocapacitive energy storage device with slow self-discharge. Nano Energy, 2019, 64, 103961.	8.2	78
18	Energy Storage Data Reporting in Perspectiveâ€”Guidelines for Interpreting the Performance of Electrochemical Energy Storage Systems. Advanced Energy Materials, 2019, 9, 1902007.	10.2	793

#	Article	IF	Citations
19	Capacitance of coarse-grained carbon electrodes with thickness up to 800â€Î¼m. Electrochimica Acta, 2019, 302, 38-44.	2.6	14
20	Tunable stable operating potential window for high-voltage aqueous supercapacitors. Nano Energy, 2019, 63, 103848.	8.2	55
21	Unimpeded migration of ions in carbon electrodes with bimodal pores at an ultralow temperature of â^'100 Â°C. Journal of Materials Chemistry A, 2019, 7, 16339-16346.	5.2	21
22	MXene-conducting polymer electrochromic microsupercapacitors. Energy Storage Materials, 2019, 20, 455-461.	9.5	136
23	Extending the low temperature operational limit of Li-ion battery to â^'80â€Â°C. Energy Storage Materials, 2019, 23, 383-389.	9.5	101
24	Atomically dispersed Fe-N-P-C complex electrocatalysts for superior oxygen reduction. Applied Catalysis B: Environmental, 2019, 249, 306-315.	10.8	85
25	Influences from solvents on charge storage in titanium carbide MXenes. Nature Energy, 2019, 4, 241-248.	19.8	363
26	High capacity Mg batteries based on surface-controlled electrochemical reactions. Nano Energy, 2018, 48, 227-237.	8.2	35
27	Enhancing capacitance of supercapacitor with both organic electrolyte and ionic liquid electrolyte on a biomass-derived carbon. RSC Advances, 2017, 7, 23859-23865.	1.7	87
28	A new etching environment (FeF₃/HCl) for the synthesis of two-dimensional titanium carbide MXenes: a route towards selective reactivity vs.Âwater. Journal of Materials Chemistry A, 2017, 5, 22012-22023.	5.2	227
29	Selective Charging Behavior in an Ionic Mixture Electrolyte-Supercapacitor System for Higher Energy and Power. Journal of the American Chemical Society, 2017, 139, 18681-18687.	6.6	101
30	Boosting the Energy Density of 3D Dual-Manganese Oxides-Based Li-Ion Supercabattery by Controlled Mass Ratio and Charge Injection. Journal of the Electrochemical Society, 2016, 163, A2618-A2622.	1.3	10
31	Boosted Supercapacitive Energy with High Rate Capability of aCarbon Framework with Hierarchical Pore Structure in an Ionic Liquid. ChemSusChem, 2016, 9, 3093-3101.	3.6	33
32	Geometrically confined favourable ion packing for high gravimetric capacitance in carbonâ€“ionic liquid supercapacitors. Energy and Environmental Science, 2016, 9, 232-239.	15.6	109
33	Liâ€Metalâ€Free Prelithiation of Siâ€Based Negative Electrodes for Full Liâ€Ion Batteries. ChemSusChem, 2015, 8, 2737-2744.	3.6	63
34	Boosting Properties of 3D Binderâ€Free Manganese Oxide Anodes by Preformation of a Solid Electrolyte Interphase. ChemSusChem, 2015, 8, 1368-1380.	3.6	7
35	First-principles Study on the Properties of Point Defects in Hcp-Dy. , 2015, , .		0