Majid Beidaghi

List of Publications by Year
in descending order

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Version: 2024-02-01

56	9,611	61984	149698
papers	citations	43 h-index	56 g-index

60	60	60	10903
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Two-Dimensional, Ordered, Double Transition Metals Carbides (MXenes). ACS Nano, 2015, 9, 9507-9516.	14.6	1,395
2	Capacitive energy storage in micro-scale devices: recent advances in design and fabrication of micro-supercapacitors. Energy and Environmental Science, 2014, 7, 867.	30.8	1,112
3	Microâ€Supercapacitors Based on Interdigital Electrodes of Reduced Graphene Oxide and Carbon Nanotube Composites with Ultrahigh Power Handling Performance. Advanced Functional Materials, 2012, 22, 4501-4510.	14.9	736
4	Room Temperature Gas Sensing of Two-Dimensional Titanium Carbide (MXene). ACS Applied Materials & Interfaces, 2017, 9, 37184-37190.	8.0	561
5	Two-Dimensional Vanadium Carbide (MXene) as a High-Capacity Cathode Material for Rechargeable Aluminum Batteries. ACS Nano, 2017, 11, 11135-11144.	14.6	402
6	In situ environmental transmission electron microscopy study of oxidation of two-dimensional Ti₃C₂and formation of carbon-supported TiO₂. Journal of Materials Chemistry A, 2014, 2, 14339.	10.3	287
7	3D Printing of Additive-Free 2D Ti₃C₂T_{<i>x</i>} (MXene) Ink for Fabrication of Micro-Supercapacitors with Ultra-High Energy Densities. ACS Nano, 2020, 14, 640-650.	14.6	285
8	Solving the Capacitive Paradox of 2D MXene using Electrochemical Quartzâ€Crystal Admittance and In Situ Electronic Conductance Measurements. Advanced Energy Materials, 2015, 5, 1400815.	19.5	283
9	Thick and freestanding MXene/PANI pseudocapacitive electrodes with ultrahigh specific capacitance. Journal of Materials Chemistry A, 2018, 6, 22123-22133.	10.3	267
10	Multifunctional Nanocomposites with High Strength and Capacitance Using 2D MXene and 1D Nanocellulose. Advanced Materials, 2019, 31, e1902977.	21.0	253
11	Two-Dimensional Vanadium Carbide MXene for Gas Sensors with Ultrahigh Sensitivity Toward Nonpolar Gases. ACS Sensors, 2019, 4, 1603-1611.	7.8	252
12	Assembling 2D MXenes into Highly Stable Pseudocapacitive Electrodes with High Power and Energy Densities. Advanced Materials, 2019, 31, e1806931.	21.0	238
13	Formulation of Ionicâ€Liquid Electrolyte To Expand the Voltage Window of Supercapacitors. Angewandte Chemie - International Edition, 2015, 54, 4806-4809.	13.8	228
14	Synthesis and Charge Storage Properties of Hierarchical Niobium Pentoxide/Carbon/Niobium Carbide (MXene) Hybrid Materials. Chemistry of Materials, 2016, 28, 3937-3943.	6.7	210
15	Micro-supercapacitors based on three dimensional interdigital polypyrrole/C-MEMS electrodes. Electrochimica Acta, 2011, 56, 9508-9514.	5.2	170
16	Controlling the actuation properties of MXene paper electrodes upon cation intercalation. Nano Energy, 2015, 17, 27-35.	16.0	166
17	Layer-by-layer self-assembly of pillared two-dimensional multilayers. Nature Communications, 2019, 10, 2558.	12.8	166
18	Structure of Nanocrystalline<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Ti</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mm mathvariant="normal">C</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml: Using Atomic Pair Distribution Function. Physical Review Letters, 2014, 112, 125501.	7.8	161

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19	Development of a Green Supercapacitor Composed Entirely of Environmentally Friendly Materials. ChemSusChem, 2013, 6, 2269-2280.	6.8	155
20	Highly porous carbon spheres for electrochemical capacitors and capacitive flowable suspension electrodes. Carbon, 2014, 77, 155-164.	10.3	148
21	Freestanding MoO3â˜ nanobelt/carbon nanotube films for Li-ion intercalation pseudocapacitors. Nano Energy, 2014, 9, 355-363.	16.0	146
22	A high performance pseudocapacitive suspension electrode for the electrochemical flow capacitor. Electrochimica Acta, 2013, 111, 888-897.	5.2	141
23	Single-Molecule Sensing Using Nanopores in Two-Dimensional Transition Metal Carbide (MXene) Membranes. ACS Nano, 2019, 13, 3042-3053.	14.6	140
24	Insights into the thermal and chemical stability of multilayered V₂CT_x MXene. Nanoscale, 2019, 11, 10716-10726.	5.6	130
25	Investigation of carbon materials for use as a flowable electrode in electrochemical flow capacitors. Electrochimica Acta, 2013, 98, 123-130.	5.2	121
26	Controlling the Dimensions of 2D MXenes for Ultrahigh-Rate Pseudocapacitive Energy Storage. ACS Applied Materials & Interfaces, 2018, 10, 25949-25954.	8.0	118
27	Electrochemically activated carbon micro-electrode arrays for electrochemical micro-capacitors. Journal of Power Sources, 2011, 196, 2403-2409.	7.8	103
28	Composite Manganese Oxide Percolating Networks As a Suspension Electrode for an Asymmetric Flow Capacitor. ACS Applied Materials & Interfaces, 2014, 6, 8886-8893.	8.0	102
29	Effects of flow cell design on charge percolation and storage in the carbon slurry electrodes of electrochemical flow capacitors. Journal of Power Sources, 2014, 247, 489-496.	7.8	95
30	Ethanol reduced molybdenum trioxide for Li-ion capacitors. Nano Energy, 2016, 26, 100-107.	16.0	74
31	Activated Carbon Spheres as a Flowable Electrode in Electrochemical Flow Capacitors. Journal of the Electrochemical Society, 2014, 161, A1078-A1083.	2.9	68
32	Synthesis and electrochemical properties of niobium pentoxide deposited on layered carbide-derived carbon. Journal of Power Sources, 2015, 274, 121-129.	7.8	66
33	Integration of Carbon Nanotubes to C-MEMS for On-chip Supercapacitors. IEEE Nanotechnology Magazine, 2010, 9, 734-740.	2.0	65
34	3D Printed MXene Aerogels with Truly 3D Macrostructure and Highly Engineered Microstructure for Enhanced Electrical and Electrochemical Performance. Advanced Materials, 2022, 34, e2104980.	21.0	64
35	High rate capacitive performance of single-walled carbon nanotube aerogels. Nano Energy, 2015, 15, 662-669.	16.0	63
36	A Review of the Effects of Electrode Fabrication and Assembly Processes on the Structure and Electrochemical Performance of 2D MXenes. Advanced Functional Materials, 2020, 30, 2005305.	14.9	58

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37	2D titanium and vanadium carbide MXene heterostructures for electrochemical energy storage. Energy Storage Materials, 2021, 41, 554-562.	18.0	57
38	Electrostatic spray deposition of graphene nanoplatelets for high-power thin-film supercapacitor electrodes. Journal of Solid State Electrochemistry, 2012, 16, 3341-3348.	2.5	56
39	Electrochemical Performances of MoO2/C Nanocomposite for Sodium Ion Storage: An Insight into Rate Dependent Charge/Discharge Mechanism. Electrochimica Acta, 2017, 240, 379-387.	5.2	54
40	Three-dimensional graphene nanosheet encrusted carbon micropillar arrays for electrochemical sensing. Nanoscale, 2012, 4, 3673.	5.6	52
41	High-density freestanding graphene/carbide-derived carbon film electrodes for electrochemical capacitors. Carbon, 2017, 118, 642-649.	10.3	47
42	Effect of hydrogenation on performance of TiO2(B) nanowire for lithium ion capacitors. Electrochemistry Communications, 2015, 60, 199-203.	4.7	46
43	Insights into the Genesis of a Selective and Coke-Resistant MXene-Based Catalyst for the Dry Reforming of Methane. ACS Catalysis, 2020, 10, 5124-5134.	11.2	43
44	Graphene â€“ transition metal oxide hybrid materials. Materials Today, 2014, 17, 253-254.	14.2	39
45	Platelet-derived growth factor oncoprotein detection using three-dimensional carbon microarrays. Biosensors and Bioelectronics, 2013, 39, 118-123.	10.1	30
46	Multilayered Twoâ€Dimensional V₂CT_x MXene for Methane Dehydroaromatization. ChemCatChem, 2020, 12, 3639-3643.	3.7	28
47	Supercapacitors: Microâ€Supercapacitors Based on Interdigital Electrodes of Reduced Graphene Oxide and Carbon Nanotube Composites with Ultrahigh Power Handling Performance (Adv. Funct. Mater.) Tj ETQq1 1 0.784314 rgBT /Overlo	19.0	37
48	Nanostructured Electrodes Via Electrostatic Spray Deposition for Energy Storage System. ECS Transactions, 2014, 61, 155-163.	0.5	9
49	Recent advances in design and fabrication of on-chip micro-supercapacitors. Proceedings of SPIE, 2012, , .	0.8	8
50	2D MXenes: Assembling 2D MXenes into Highly Stable Pseudocapacitive Electrodes with High Power and Energy Densities (Adv. Mater. 8/2019). Advanced Materials, 2019, 31, 1970057.	21.0	8
51	Rapid laser nanomanufacturing and direct patterning of 2D materials on flexible substratesâ€”2DFlex. Nanotechnology, 2021, 32, 055302.	2.6	8
52	Design, fabrication, and evaluation of on-chip micro-supercapacitors. Proceedings of SPIE, 2011, , .	0.8	7
53	Techniques for MXene Delamination into Single-Layer Flakes. , 2019, , 177-195.		6
54	Carbon microelectromechanical systems (C-MEMS) based microsupercapacitors. Proceedings of SPIE, 2015, , .	0.8	4

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55	On-chip micro-power: three-dimensional structures for micro-batteries and micro-supercapacitors. , 2010, , .		3
56	Optimization of Flowable Electrode for Electrochemical Flow Capacitors. ECS Meeting Abstracts, 2013, , .	0.0	0