Majid Beidaghi

List of Publications by Year
in descending order

56 papers	9,611 citations	61857 43 h-index	149479 56 g-index
60 all docs	60 docs citations	60 times ranked	10903 citing authors

#	Article	IF	Citations
1	3D Printed MXene Aerogels with Truly 3D Macrostructure and Highly Engineered Microstructure for Enhanced Electrical and Electrochemical Performance. Advanced Materials, 2022, 34, e2104980.	11.1	64
2	2D titanium and vanadium carbide MXene heterostructures for electrochemical energy storage. Energy Storage Materials, 2021, 41, 554-562.	9.5	57
3	Rapid laser nanomanufacturing and direct patterning of 2D materials on flexible substratesâ€”2DFlex. Nanotechnology, 2021, 32, 055302.	1.3	8
4	3D Printing of Additive-Free 2D Ti₃C₂T_x (MXene) Ink for Fabrication of Micro-Supercapacitors with Ultra-High Energy Densities. ACS Nano, 2020, 14, 640-650.	7.3	285
5	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.	7.8	58
6	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.	5.5	43
7	Multilayered Twoâ€Dimensional V₂CT_x MXene for Methane Dehydroaromatization. ChemCatChem, 2020, 12, 3639-3643.	1.8	28
8	Multifunctional Nanocomposites with High Strength and Capacitance Using 2D MXene and 1D Nanocellulose. Advanced Materials, 2019, 31, e1902977.	11.1	253
9	Two-Dimensional Vanadium Carbide MXene for Gas Sensors with Ultrahigh Sensitivity Toward Nonpolar Gases. ACS Sensors, 2019, 4, 1603-1611.	4.0	252
10	Layer-by-layer self-assembly of pillared two-dimensional multilayers. Nature Communications, 2019, 10, 2558.	5.8	166
11	Insights into the thermal and chemical stability of multilayered V₂CT_x MXene. Nanoscale, 2019, 11, 10716-10726.	2.8	130
12	Single-Molecule Sensing Using Nanopores in Two-Dimensional Transition Metal Carbide (MXene) Membranes. ACS Nano, 2019, 13, 3042-3053.	7.3	140
13	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.	11.1	8
14	Assembling 2D MXenes into Highly Stable Pseudocapacitive Electrodes with High Power and Energy Densities. Advanced Materials, 2019, 31, e1806931.	11.1	238
15	Techniques for MXene Delamination into Single-Layer Flakes. , 2019, , 177-195.		6
16	Controlling the Dimensions of 2D MXenes for Ultrahigh-Rate Pseudocapacitive Energy Storage. ACS Applied Materials & Interfaces, 2018, 10, 25949-25954.	4.0	118
17	Thick and freestanding MXene/PANI pseudocapacitive electrodes with ultrahigh specific capacitance. Journal of Materials Chemistry A, 2018, 6, 22123-22133.	5.2	267
18	Electrochemical Performances of MoO2/C Nanocomposite for Sodium Ion Storage: An Insight into Rate Dependent Charge/Discharge Mechanism. Electrochimica Acta, 2017, 240, 379-387.	2.6	54

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19	High-density freestanding graphene/carbide-derived carbon film electrodes for electrochemical capacitors. Carbon, 2017, 118, 642-649.	5.4	47
20	Room Temperature Gas Sensing of Two-Dimensional Titanium Carbide (MXene). ACS Applied Materials & Interfaces, 2017, 9, 37184-37190.	4.0	561
21	Two-Dimensional Vanadium Carbide (MXene) as a High-Capacity Cathode Material for Rechargeable Aluminum Batteries. ACS Nano, 2017, 11, 11135-11144.	7.3	402
22	Synthesis and Charge Storage Properties of Hierarchical Niobium Pentoxide/Carbon/Niobium Carbide (MXene) Hybrid Materials. Chemistry of Materials, 2016, 28, 3937-3943.	3.2	210
23	Ethanol reduced molybdenum trioxide for Li-ion capacitors. Nano Energy, 2016, 26, 100-107.	8.2	74
24	High rate capacitive performance of single-walled carbon nanotube aerogels. Nano Energy, 2015, 15, 662-669.	8.2	63
25	Two-Dimensional, Ordered, Double Transition Metals Carbides (MXenes). ACS Nano, 2015, 9, 9507-9516.	7.3	1,395
26	Carbon microelectromechanical systems (C-MEMS) based microsupercapacitors. Proceedings of SPIE, 2015, , .	0.8	4
27	Formulation of Ionicâ€Liquid Electrolyte To Expand the Voltage Window of Supercapacitors. Angewandte Chemie - International Edition, 2015, 54, 4806-4809.	7.2	228
28	Controlling the actuation properties of MXene paper electrodes upon cation intercalation. Nano Energy, 2015, 17, 27-35.	8.2	166
29	Effect of hydrogenation on performance of TiO2(B) nanowire for lithium ion capacitors. Electrochemistry Communications, 2015, 60, 199-203.	2.3	46
30	Synthesis and electrochemical properties of niobium pentoxide deposited on layered carbide-derived carbon. Journal of Power Sources, 2015, 274, 121-129.	4.0	66
31	Solving the Capacitive Paradox of 2D MXene using Electrochemical Quartzâ€Crystal Admittance and In Situ Electronic Conductance Measurements. Advanced Energy Materials, 2015, 5, 1400815.	10.2	283
32	Freestanding MoO3â˜' nanobelt/carbon nanotube films for Li-ion intercalation pseudocapacitors. Nano Energy, 2014, 9, 355-363.	8.2	146
33	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></mml:mrow></mml:msub><mml:mrow><mml:mi mathvariant="normal">C</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Using Atomic Pair Distribution Function. Physical Review Letters, 2014, 112, 125501.	2.9	161
34	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.	4.0	95
35	Activated Carbon Spheres as a Flowable Electrode in Electrochemical Flow Capacitors. Journal of the Electrochemical Society, 2014, 161, A1078-A1083.	1.3	68
36	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.	5.2	287

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37	Nanostructured Electrodes Via Electrostatic Spray Deposition for Energy Storage System. ECS Transactions, 2014, 61, 155-163.	0.3	9
38	Highly porous carbon spheres for electrochemical capacitors and capacitive flowable suspension electrodes. Carbon, 2014, 77, 155-164.	5.4	148
39	Capacitive energy storage in micro-scale devices: recent advances in design and fabrication of micro-supercapacitors. Energy and Environmental Science, 2014, 7, 867.	15.6	1,112
40	Composite Manganese Oxide Percolating Networks As a Suspension Electrode for an Asymmetric Flow Capacitor. ACS Applied Materials & Interfaces, 2014, 6, 8886-8893.	4.0	102
41	Graphene â€“ transition metal oxide hybrid materials. Materials Today, 2014, 17, 253-254.	8.3	39
42	A high performance pseudocapacitive suspension electrode for the electrochemical flow capacitor. Electrochimica Acta, 2013, 111, 888-897.	2.6	141
43	Development of a Green Supercapacitor Composed Entirely of Environmentally Friendly Materials. ChemSusChem, 2013, 6, 2269-2280.	3.6	155
44	Investigation of carbon materials for use as a flowable electrode in electrochemical flow capacitors. Electrochimica Acta, 2013, 98, 123-130.	2.6	121
45	Platelet-derived growth factor oncoprotein detection using three-dimensional carbon microarrays. Biosensors and Bioelectronics, 2013, 39, 118-123.	5.3	30
46	Optimization of Flowable Electrode for Electrochemical Flow Capacitors. ECS Meeting Abstracts, 2013, , .	0.0	0
47	Recent advances in design and fabrication of on-chip micro-supercapacitors. Proceedings of SPIE, 2012, , .	0.8	8
48	Supercapacitors: Microâ€Supercapacitors Based on Interdigital Electrodes of Reduced Graphene Oxide and Carbon Nanotube Composites with Ultrahigh Power Handling Performance (Adv. Funct. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	7.8	16
49	Electrostatic spray deposition of graphene nanoplatelets for high-power thin-film supercapacitor electrodes. Journal of Solid State Electrochemistry, 2012, 16, 3341-3348.	1.2	56
50	Three-dimensional graphene nanosheet encrusted carbon micropillar arrays for electrochemical sensing. Nanoscale, 2012, 4, 3673.	2.8	52
51	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.	7.8	736
52	Micro-supercapacitors based on three dimensional interdigital polypyrrole/C-MEMS electrodes. Electrochimica Acta, 2011, 56, 9508-9514.	2.6	170
53	Electrochemically activated carbon micro-electrode arrays for electrochemical micro-capacitors. Journal of Power Sources, 2011, 196, 2403-2409.	4.0	103
54	Design, fabrication, and evaluation of on-chip micro-supercapacitors. Proceedings of SPIE, 2011, , .	0.8	7

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55	On-chip micro-power: three-dimensional structures for micro-batteries and micro-supercapacitors. , 2010, , .		3
56	Integration of Carbon Nanotubes to C-MEMS for On-chip Supercapacitors. IEEE Nanotechnology Magazine, 2010, 9, 734-740.	1.1	65