Husam Niman Alshareef

List of Publications by Year
in descending order

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501 papers	45,144 citations	1097 112 h-index	2743 192 g-index
515 all docs	515 docs citations	515 times ranked	36051 citing authors

#	Article	IF	Citations
1	Plasma-Assisted Synthesis of NiCoP for Efficient Overall Water Splitting. Nano Letters, 2016, 16, 7718-7725.	4.5	1,079
2	Substrate Dependent Self-Organization of Mesoporous Cobalt Oxide Nanowires with Remarkable Pseudocapacitance. Nano Letters, 2012, 12, 2559-2567.	4.5	778
3	Effect of Postetch Annealing Gas Composition on the Structural and Electrochemical Properties of Ti₂CT_x MXene Electrodes for Supercapacitor Applications. Chemistry of Materials, 2015, 27, 5314-5323.	3.2	771
4	All Pseudocapacitive MXeneâ€RuO₂ Asymmetric Supercapacitors. Advanced Energy Materials, 2018, 8, 1703043.	10.2	757
5	Highly Stable Aqueous Zincâ€Ion Storage Using a Layered Calcium Vanadium Oxide Bronze Cathode. Angewandte Chemie - International Edition, 2018, 57, 3943-3948.	7.2	742
6	Rechargeable Aqueous Zincâ€Ion Battery Based on Porous Framework Zinc Pyrovanadate Intercalation Cathode. Advanced Materials, 2018, 30, 1705580.	11.1	738
7	One-Step Electrodeposited Nickel Cobalt Sulfide Nanosheet Arrays for High-Performance Asymmetric Supercapacitors. ACS Nano, 2014, 8, 9531-9541.	7.3	687
8	High-Performance Nanostructured Supercapacitors on a Sponge. Nano Letters, 2011, 11, 5165-5172.	4.5	670
9	Zinc-ion batteries: Materials, mechanisms, and applications. Materials Science and Engineering Reports, 2019, 135, 58-84.	14.8	604
10	Symmetrical MnO₂â€“Carbon Nanotubeâ€“Textile Nanostructures for Wearable Pseudocapacitors with High Mass Loading. ACS Nano, 2011, 5, 8904-8913.	7.3	582
11	Layered Mg_xV₂O₅Â·nH₂O as Cathode Material for High-Performance Aqueous Zinc Ion Batteries. ACS Energy Letters, 2018, 3, 2602-2609.	8.8	581
12	MXenes stretch hydrogel sensor performance to new limits. Science Advances, 2018, 4, eaat0098.	4.7	556
13	Recent Developments in pâ€Type Oxide Semiconductor Materials and Devices. Advanced Materials, 2016, 28, 3831-3892.	11.1	552
14	All-MXene (2D titanium carbide) solid-state microsupercapacitors for on-chip energy storage. Energy and Environmental Science, 2016, 9, 2847-2854.	15.6	551
15	Selenideâ€Based Electrocatalysts and Scaffolds for Water Oxidation Applications. Advanced Materials, 2016, 28, 77-85.	11.1	544
16	Intercorrelated In-Plane and Out-of-Plane Ferroelectricity in Ultrathin Two-Dimensional Layered Semiconductor In₂Se₃. Nano Letters, 2018, 18, 1253-1258.	4.5	509
17	Amorphous NiFe-OH/NiFeP Electrocatalyst Fabricated at Low Temperature for Water Oxidation Applications. ACS Energy Letters, 2017, 2, 1035-1042.	8.8	505
18	Continuous production of pure liquid fuel solutions via electrocatalytic CO2 reduction using solid-electrolyte devices. Nature Energy, 2019, 4, 776-785.	19.8	458

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19	Atomic layer deposition of SnO 2 on MXene for Li-ion battery anodes. Nano Energy, 2017, 34, 249-256.	8.2	423
20	Synthesis Strategies of Porous Carbon for Supercapacitor Applications. Small Methods, 2020, 4, 1900853.	4.6	403
21	H₂O₂assisted room temperature oxidation of Ti₂C MXene for Li-ion battery anodes. Nanoscale, 2016, 8, 7580-7587.	2.8	396
22	MXeneâ€onâ€Paper Coplanar Microsupercapacitors. Advanced Energy Materials, 2016, 6, 1601372.	10.2	368
23	MXene hydrogels: fundamentals and applications. Chemical Society Reviews, 2020, 49, 7229-7251.	18.7	368
24	Heteroatomâ€Mediated Interactions between Ruthenium Single Atoms and an MXene Support for Efficient Hydrogen Evolution. Advanced Materials, 2019, 31, e1903841.	11.1	363
25	Aqueous Zinc-Ion Storage in MoS₂ by Tuning the Intercalation Energy. Nano Letters, 2019, 19, 3199-3206.	4.5	362
26	General synthesis of single-atom catalysts with high metal loading using graphene quantum dots. Nature Chemistry, 2021, 13, 887-894.	6.6	362
27	Direct Chemical Synthesis of MnO₂Nanowhiskers on Transition-Metal Carbide Surfaces for Supercapacitor Applications. ACS Applied Materials & Interfaces, 2016, 8, 18806-18814.	4.0	350
28	A Selfâ€Powered and Flexible Organometallic Halide Perovskite Photodetector with Very High Detectivity. Advanced Materials, 2018, 30, 1704611.	11.1	339
29	Large Dielectric Constant Enhancement in MXene Percolative Polymer Composites. ACS Nano, 2018, 12, 3369-3377.	7.3	334
30	MXene electrochemical microsupercapacitor integrated with triboelectric nanogenerator as a wearable self-charging power unit. Nano Energy, 2018, 45, 266-272.	8.2	333
31	Low temperature synthesis of ternary metal phosphides using plasma for asymmetric supercapacitors. Nano Energy, 2017, 35, 331-340.	8.2	324
32	Asymmetric Flexible MXeneâ€Reduced Graphene Oxide Microâ€Supercapacitor. Advanced Electronic Materials, 2018, 4, 1700339.	2.6	324
33	Record Mobility in Transparent p-Type Tin Monoxide Films and Devices by Phase Engineering. ACS Nano, 2013, 7, 5160-5167.	7.3	306
34	Carbon nanotube-coated macroporous sponge for microbial fuel cell electrodes. Energy and Environmental Science, 2012, 5, 5265-5270.	15.6	284
35	High performance supercapacitors using metal oxide anchored graphene nanosheet electrodes. Journal of Materials Chemistry, 2011, 21, 16197.	6.7	280
36	A MXeneâ€Based Wearable Biosensor System for Highâ€Performance In Vitro Perspiration Analysis. Small, 2019, 15, e1901190.	5.2	280

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37	Thermoelectric Properties of Two-Dimensional Molybdenum-Based MXenes. Chemistry of Materials, 2017, 29, 6472-6479.	3.2	270
38	Novel amperometric glucose biosensor based on MXene nanocomposite. Scientific Reports, 2016, 6, 36422.	1.6	268
39	Evidence for topological type-II Weyl semimetal WTe2. Nature Communications, 2017, 8, 2150.	5.8	263
40	Flexible, Highly Graphitized Carbon Aerogels Based on Bacterial Cellulose/Lignin: Catalystâ€Free Synthesis and its Application in Energy Storage Devices. Advanced Functional Materials, 2015, 25, 3193-3202.	7.8	262
41	Co-Solvent Electrolyte Engineering for Stable Anode-Free Zinc Metal Batteries. Journal of the American Chemical Society, 2022, 144, 7160-7170.	6.6	252
42	Giant Photoluminescence Enhancement in CsPbCl₃ Perovskite Nanocrystals by Simultaneous Dual-Surface Passivation. ACS Energy Letters, 2018, 3, 2301-2307.	8.8	244
43	SnSe₂ 2D Anodes for Advanced Sodium Ion Batteries. Advanced Energy Materials, 2016, 6, 1601188.	10.2	243
44	Impurities and Electronic Property Variations of Natural MoS₂Crystal Surfaces. ACS Nano, 2015, 9, 9124-9133.	7.3	240
45	MXene Printing and Patterned Coating for Device Applications. Advanced Materials, 2020, 32, e1908486.	11.1	239
46	Two-Dimensional Ti₃C₂T_x MXene Membranes as Nanofluidic Osmotic Power Generators. ACS Nano, 2019, 13, 8917-8925.	7.3	235
47	MXetronics: Electronic and photonic applications of MXenes. Nano Energy, 2019, 60, 179-197.	8.2	231
48	Enhanced Rate Performance of Mesoporous Co₃O₄Nanosheet Supercapacitor Electrodes by Hydrous RuO₂Nanoparticle Decoration. ACS Applied Materials & Interfaces, 2014, 6, 4196-4206.	4.0	226
49	MXenes for Rechargeable Batteries Beyond the Lithiumâ€Ion. Advanced Materials, 2021, 33, e2004039.	11.1	224
50	Review of MXene electrochemical microsupercapacitors. Energy Storage Materials, 2020, 27, 78-95.	9.5	223
51	Memristive technologies for data storage, computation, encryption, and radio-frequency communication. Science, 2022, 376, .	6.0	220
52	Sodium-ion battery anodes: Status and future trends. EnergyChem, 2019, 1, 100012.	10.1	217
53	Conducting polymer micro-supercapacitors for flexible energy storage and Ac line-filtering. Nano Energy, 2015, 13, 500-508.	8.2	214
54	Graphitic Nanocarbon with Engineered Defects for Highâ€Performance Potassiumâ€Ion Battery Anodes. Advanced Functional Materials, 2019, 29, 1903641.	7.8	212

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55	A round robin study of flexible large-area roll-to-roll processed polymer solar cell modules. Solar Energy Materials and Solar Cells, 2009, 93, 1968-1977.	3.0	205
56	Is NiCo₂S₄ Really a Semiconductor?. Chemistry of Materials, 2015, 27, 6482-6485.	3.2	203
57	Concentrated dual-cation electrolyte strategy for aqueous zinc-ion batteries. Energy and Environmental Science, 2021, 14, 4463-4473.	15.6	203
58	Highly Efficient Laser Scribed Graphene Electrodes for Onâ€Chip Electrochemical Sensing Applications. Advanced Electronic Materials, 2016, 2, 1600185.	2.6	202
59	Large-Area Deposition of MoS₂ by Pulsed Laser Deposition with In Situ Thickness Control. ACS Nano, 2016, 10, 6054-6061.	7.3	202
60	Two-dimensional heterostructures of V₂O₅ and reduced graphene oxide as electrodes for high energy density asymmetric supercapacitors. Journal of Materials Chemistry A, 2014, 2, 17146-17152.	5.2	193
61	Nanostructured cobalt sulfide-on-fiber with tunable morphology as electrodes for asymmetric hybrid supercapacitors. Journal of Materials Chemistry A, 2014, 2, 16190-16198.	5.2	191
62	Porous MXenes enable high performance potassium ion capacitors. Nano Energy, 2019, 62, 853-860.	8.2	190
63	Electrochemical Zinc Ion Capacitors Enhanced by Redox Reactions of Porous Carbon Cathodes. Advanced Energy Materials, 2020, 10, 2001705.	10.2	189
64	Qualitative model for the fatigueâ€free behavior of SrBi2Ta2O9. Applied Physics Letters, 1996, 68, 690-692.	1.5	185
65	Facile synthesis of polyaniline nanotubes using reactive oxide templates for high energy density pseudocapacitors. Journal of Materials Chemistry A, 2013, 1, 3315.	5.2	182
66	Effect of pH-induced chemical modification of hydrothermally reduced graphene oxide on supercapacitor performance. Journal of Power Sources, 2013, 233, 313-319.	4.0	180
67	Asymmetric supercapacitors with metal-like ternary selenides and porous graphene electrodes. Nano Energy, 2016, 24, 78-86.	8.2	180
68	Tunable Multipolar Surface Plasmons in 2D Ti₃C₂T_x MXene Flakes. ACS Nano, 2018, 12, 8485-8493.	7.3	179
69	Lignin Laser Lithography: A Directâ€Write Method for Fabricating 3D Graphene Electrodes for Microsupercapacitors. Advanced Energy Materials, 2018, 8, 1801840.	10.2	179
70	MXenes for Plasmonic Photodetection. Advanced Materials, 2019, 31, e1807658.	11.1	175
71	Phenanthroline Covalent Organic Framework Electrodes for High-Performance Zinc-Ion Supercapattery. ACS Energy Letters, 2020, 5, 2256-2264.	8.8	175
72	Phosphine plasma activation of Î±-Fe2O3 for high energy asymmetric supercapacitors. Nano Energy, 2018, 49, 155-162.	8.2	173

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73	Active Edge Sites Engineering in Nickel Cobalt Selenide Solid Solutions for Highly Efficient Hydrogen Evolution. Advanced Energy Materials, 2017, 7, 1602089.	10.2	171
74	Nanostructured Ternary Electrodes for Energyâ€Storage Applications. Advanced Energy Materials, 2012, 2, 381-389.	10.2	170
75	Photoinduced changes in the fatigue behavior of SrBi2Ta2O9and Pb(Zr,Ti)O3thin films. Journal of Applied Physics, 1996, 80, 1682-1687.	1.1	168
76	High performance In2O3 thin film transistors using chemically derived aluminum oxide dielectric. Applied Physics Letters, 2013, 103, .	1.5	168
77	Oxide Thinâ€Film Electronics using Allâ€MXene Electrical Contacts. Advanced Materials, 2018, 30, e1706656.	11.1	165
78	Direct Pyrolysis of Supermolecules: An Ultrahigh Edgeâ€Nitrogen Doping Strategy of Carbon Anodes for Potassiumâ€Ion Batteries. Advanced Materials, 2020, 32, e2000732.	11.1	164
79	A Siteâ€Selective Doping Strategy of Carbon Anodes with Remarkable Kâ€Ion Storage Capacity. Angewandte Chemie - International Edition, 2020, 59, 4448-4455.	7.2	162
80	Dipole model explaining high-k/metal gate field effect transistor threshold voltage tuning. Applied Physics Letters, 2008, 92, .	1.5	161
81	MXeneâ€Contacted Silicon Solar Cells with 11.5% Efficiency. Advanced Energy Materials, 2019, 9, 1900180.	10.2	161
82	New Insight on the Role of Electrolyte Additives in Rechargeable Lithium Ion Batteries. ACS Energy Letters, 2019, 4, 2613-2622.	8.8	160
83	Ti₃C₂T_x MXene-Activated Fast Gelation of Stretchable and Self-Healing Hydrogels: A Molecular Approach. ACS Nano, 2021, 15, 2698-2706.	7.3	157
84	MXetronics: MXene-Enabled Electronic and Photonic Devices. , 2020, 2, 55-70.		156
85	Electrochemical Zinc Ion Capacitors: Fundamentals, Materials, and Systems. Advanced Energy Materials, 2021, 11, 2100201.	10.2	156
86	Microscale electrostatic fractional capacitors using reduced graphene oxide percolated polymer composites. Applied Physics Letters, 2013, 102, 232901.	1.5	155
87	Artificial Solid Electrolyte Interphase for Suppressing Surface Reactions and Cathode Dissolution in Aqueous Zinc Ion Batteries. ACS Energy Letters, 2019, 4, 2776-2781.	8.8	155
88	Laser-Scribed Graphene Electrodes for Aptamer-Based Biosensing. ACS Sensors, 2017, 2, 616-620.	4.0	153
89	Capacitance enhancement of polyaniline coated curved-graphene supercapacitors in a redox-active electrolyte. Nanoscale, 2013, 5, 4134.	2.8	151
90	Molecular Engineering of Covalent Organic Framework Cathodes for Enhanced Zincâ€Ion Batteries. Advanced Materials, 2021, 33, e2103617.	11.1	151

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91	Bistacked Titanium Carbide (MXene) Anodes for Hybrid Sodium-Ion Capacitors. ACS Energy Letters, 2018, 3, 2094-2100.	8.8	145
92	Electrical properties of ferroelectric thinâ€film capacitors with hybrid (Pt,RuO2) electrodes for nonvolatile memory applications. Journal of Applied Physics, 1995, 77, 2146-2154.	1.1	144
93	Conductive Metalâ€“Organic Frameworks Selectively Grown on Laserâ€Scribed Graphene for Electrochemical Microsupercapacitors. Advanced Energy Materials, 2019, 9, 1900482.	10.2	142
94	Deposition of nanomaterials: A crucial step in biosensor fabrication. Materials Today Communications, 2018, 17, 289-321.	0.9	140
95	Highly Stable Supercapacitors with Conducting Polymer Coreâ€Shell Electrodes for Energy Storage Applications. Advanced Energy Materials, 2015, 5, 1401805.	10.2	139
96	Highâ€Performance Nonâ€Volatile Organic Ferroelectric Memory on Banknotes. Advanced Materials, 2012, 24, 2165-2170.	11.1	138
97	Laser-derived graphene: A three-dimensional printed graphene electrode and its emerging applications. Nano Today, 2019, 24, 81-102.	6.2	138
98	Electrolyte Solvation Structure Design for Sodium Ion Batteries. Advanced Science, 2022, 9, .	5.6	138
99	MXene-conducting polymer electrochromic microsupercapacitors. Energy Storage Materials, 2019, 20, 455-461.	9.5	136
100	Electrolyte Engineering Enables High Stability and Capacity Alloying Anodes for Sodium and Potassium Ion Batteries. ACS Energy Letters, 2020, 5, 766-776.	8.8	134
101	Thermoelectric Performance of the MXenes M₂CO₂ (M = Ti, Zr, or Hf). Chemistry of Materials, 2016, 28, 1647-1652.	3.2	132
102	MXene based self-assembled cathode and antifouling separator for high-rate and dendrite-inhibited Liâ€“S battery. Nano Energy, 2019, 61, 478-485.	8.2	131
103	An Anode-Free Znâ€“MnO₂ Battery. Nano Letters, 2021, 21, 1446-1453.	4.5	131
104	The development of integrated circuits based on two-dimensional materials. Nature Electronics, 2021, 4, 775-785.	13.1	129
105	Nanocomposites of ferroelectric polymers with surface-hydroxylated BaTiO3 nanoparticles for energy storage applications. Journal of Materials Chemistry, 2012, 22, 11196.	6.7	128
106	Formation of SrBi₂Ta₂O₉: Part I. Synthesis and characterization of a novel â€œsol-gelâ€•solution for production of ferroelectric SrBi₂Ta₂O₉ thin films. Journal of Materials Research, 1996, 11, 2274-2281.	1.2	127
107	Enhancement of the energy storage properties of supercapacitors using graphene nanosheets dispersed with metal oxide-loaded carbon nanotubes. Journal of Power Sources, 2011, 196, 8858-8865.	4.0	127
108	2D Organicâ€“Inorganic Hybrid Thin Films for Flexible UVâ€“Visible Photodetectors. Advanced Functional Materials, 2017, 27, 1605554.	7.8	125

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109	Imprint in Ferroelectric Capacitors. Japanese Journal of Applied Physics, 1996, 35, 1521-1524.	0.8	122
110	Self-templating Scheme for the Synthesis of Nanostructured Transition-Metal Chalcogenide Electrodes for Capacitive Energy Storage. Chemistry of Materials, 2015, 27, 4661-4668.	3.2	121
111	Two-Dimensional SnO Anodes with a Tunable Number of Atomic Layers for Sodium Ion Batteries. Nano Letters, 2017, 17, 1302-1311.	4.5	118
112	Atmospheric effects on the photovoltaic performance of hybrid perovskite solar cells. Solar Energy Materials and Solar Cells, 2015, 137, 6-14.	3.0	117
113	Tuning the Electrochemical Performance of Titanium Carbide MXene by Controllable In Situ Anodic Oxidation. Angewandte Chemie - International Edition, 2019, 58, 17849-17855.	7.2	117
114	Molecular-Scale Interfacial Model for Predicting Electrode Performance in Rechargeable Batteries. ACS Energy Letters, 2019, 4, 1584-1593.	8.8	117
115	Highly Stable Phosphonateâ€Based MOFs with Engineered Bandgaps for Efficient Photocatalytic Hydrogen Production. Advanced Materials, 2020, 32, e1906368.	11.1	117
116	MXenes for Energy Harvesting. Advanced Materials, 2022, 34, e2108560.	11.1	117
117	Selfâ€Healing and Stretchable 3Dâ€Printed Organic Thermoelectrics. Advanced Functional Materials, 2019, 29, 1905426.	7.8	115
118	Optimization of poly(vinylidene fluoride-trifluoroethylene) films as non-volatile memory for flexible electronics. Organic Electronics, 2010, 11, 925-932.	1.4	114
119	Onâ€Chip MXene Microsupercapacitors for ACâ€Line Filtering Applications. Advanced Energy Materials, 2019, 9, 1901061.	10.2	113
120	Electrochemical sensors and biosensors using laser-derived graphene: A comprehensive review. Biosensors and Bioelectronics, 2020, 168, 112565.	5.3	113
121	Status of rechargeable potassium batteries. Nano Energy, 2021, 83, 105792.	8.2	113
122	All conducting polymer electrodes for asymmetric solid-state supercapacitors. Journal of Materials Chemistry A, 2015, 3, 7368-7374.	5.2	112
123	A novel strategy for the synthesis of highly stable ternary SiO_x composites for Li-ion-battery anodes. Journal of Materials Chemistry A, 2019, 7, 15969-15974.	5.2	112
124	Direct Writing of Additiveâ€Free MXeneâ€inâ€Water Ink for Electronics and Energy Storage. Advanced Materials Technologies, 2019, 4, 1800256.	3.0	112
125	MXene Derived Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2019, 141, 20037-20042.	6.6	110
126	Polyoxometalateâ€“Cyclodextrin Metalâ€“Organic Frameworks: From Tunable Structure to Customized Storage Functionality. Journal of the American Chemical Society, 2019, 141, 1847-1851.	6.6	110

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127	High-Capacity NH₄⁺ Charge Storage in Covalent Organic Frameworks. Journal of the American Chemical Society, 2021, 143, 19178-19186.	6.6	109
128	Highly Stable Aqueous Zincâ€Ion Storage Using a Layered Calcium Vanadium Oxide Bronze Cathode. Angewandte Chemie, 2018, 130, 4007-4012.	1.6	108
129	Solution synthesis of VSe2 nanosheets and their alkali metal ion storage performance. Nano Energy, 2018, 53, 11-16.	8.2	108
130	Morphological and Electrochemical Cycling Effects in MnO₂ Nanostructures by 3D Electron Tomography. Advanced Functional Materials, 2014, 24, 3130-3143.	7.8	107
131	Thin Film Complementary Metal Oxide Semiconductor (CMOS) Device Using a Single-Step Deposition of the Channel Layer. Scientific Reports, 2014, 4, 4672.	1.6	107
132	Covalent Organic Frameworks as Negative Electrodes for Highâ€Performance Asymmetric Supercapacitors. Advanced Energy Materials, 2020, 10, 2001673.	10.2	107
133	Opportunities of Aqueous Manganeseâ€Based Batteries with Deposition and Stripping Chemistry. Advanced Energy Materials, 2021, 11, 2002904.	10.2	107
134	Electrode surface engineering by atomic layer deposition: A promising pathway toward better energy storage. Nano Today, 2016, 11, 250-271.	6.2	106
135	Surface Passivation of MoO₃ Nanorods by Atomic Layer Deposition toward High Rate Durable Li Ion Battery Anodes. ACS Applied Materials & Interfaces, 2015, 7, 13154-13163.	4.0	105
136	Controlled Deposition of Zincâ€Metal Anodes via Selectively Polarized Ferroelectric Polymers. Advanced Materials, 2022, 34, e2106937.	11.1	105
137	Morphology-Dependent Enhancement of the Pseudocapacitance of Template-Guided Tunable Polyaniline Nanostructures. Journal of Physical Chemistry C, 2013, 117, 15009-15019.	1.5	103
138	Electrochemical Energy Storage Devices Using Electrodes Incorporating Carbon Nanocoils and Metal Oxides Nanoparticles. Journal of Physical Chemistry C, 2011, 115, 14392-14399.	1.5	101
139	Additive-mediated intercalation and surface modification of MXenes. Chemical Society Reviews, 2022, 51, 2972-2990.	18.7	101
140	Work function engineering using lanthanum oxide interfacial layers. Applied Physics Letters, 2006, 89, 232103.	1.5	100
141	Unraveling the New Role of an Ethylene Carbonate Solvation Shell in Rechargeable Metal Ion Batteries. ACS Energy Letters, 2021, 6, 69-78.	8.8	99
142	High performance solution-deposited amorphous indium gallium zinc oxide thin film transistors by oxygen plasma treatment. Applied Physics Letters, 2012, 100, .	1.5	98
143	An Empirical Model for the Design of Batteries with High Energy Density. ACS Energy Letters, 2020, 5, 807-816.	8.8	97
144	Conformal coating of Ni(OH)2 nanoflakes on carbon fibers by chemical bath deposition for efficient supercapacitor electrodes. Journal of Materials Chemistry A, 2013, 1, 14897.	5.2	96

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145	Partially Reduced Holey Graphene Oxide as High Performance Anode for Sodiumâ€Ion Batteries. Advanced Energy Materials, 2019, 9, 1803215.	10.2	96
146	Electrolyteâ€Mediated Stabilization of Highâ€Capacity Microâ€Sized Antimony Anodes for Potassiumâ€Ion Batteries. Advanced Materials, 2021, 33, e2005993.	11.1	96
147	Preferred Orientation of TiN Coatings Enables Stable Zinc Anodes. ACS Energy Letters, 2022, 7, 197-203.	8.8	95
148	Direct and continuous generation of pure acetic acid solutions via electrocatalytic carbon monoxide reduction. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	93
149	Ultrasound-Driven Two-Dimensional Ti₃C₂T_x MXene Hydrogel Generator. ACS Nano, 2020, 14, 3199-3207.	7.3	91
150	Synthesis and electrochemical properties of 2D molybdenum vanadium carbides â€“ solid solution MXenes. Journal of Materials Chemistry A, 2020, 8, 8957-8968.	5.2	90
151	Effect of B-site cation stoichiometry on electrical fatigue of RuO2//Pb(ZrxTi1â^'x)O3//RuO2 capacitors. Journal of Applied Physics, 1996, 79, 1013.	1.1	89
152	Conducting polymer/carbon nanocoil composite electrodes for efficient supercapacitors. Journal of Materials Chemistry, 2012, 22, 5177.	6.7	89
153	Model-Based Design of Graphite-Compatible Electrolytes in Potassium-Ion Batteries. ACS Energy Letters, 2020, 5, 2651-2661.	8.8	88
154	Accordionâ€Like Carbon with High Nitrogen Doping for Fast and Stable K Ion Storage. Advanced Energy Materials, 2021, 11, 2101928.	10.2	88
155	2D Covalentâ€Organic Framework Electrodes for Supercapacitors and Rechargeable Metalâ€Ion Batteries. Advanced Energy Materials, 2022, 12, 2100177.	10.2	87
156	Photothermoelectric Response of Ti₃C₂T_x MXene Confined Ion Channels. ACS Nano, 2020, 14, 9042-9049.	7.3	86
157	Microfabricated Pseudocapacitors Using Ni(OH)₂ Electrodes Exhibit Remarkable Volumetric Capacitance and Energy Density. Advanced Energy Materials, 2015, 5, 1401303.	10.2	84
158	High energy density supercapacitors using macroporous kitchen sponges. Journal of Materials Chemistry, 2012, 22, 14394.	6.7	83
159	Selective Toluene Detection with Mo₂CT_x MXene at Room Temperature. ACS Applied Materials & Interfaces, 2020, 12, 57218-57227.	4.0	83
160	Covalent Assembly of Twoâ€Dimensional COFâ€onâ€MXene Heterostructures Enables Fast Charging Lithium Hosts. Advanced Functional Materials, 2021, 31, 2101194.	7.8	83
161	Highly Doped 3D Graphene Naâ€Ion Battery Anode by Laser Scribing Polyimide Films in Nitrogen Ambient. Advanced Energy Materials, 2018, 8, 1800353.	10.2	83
162	Highly Stretchable and Air-Stable PEDOT:PSS/Ionic Liquid Composites for Efficient Organic Thermoelectrics. Chemistry of Materials, 2019, 31, 3519-3526.	3.2	81

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163	Lignin Derived Porous Carbons: Synthesis Methods and Supercapacitor Applications. Small Methods, 2021, 5, e2100896.	4.6	80
164	Organic Acid Etching Strategy for Dendrite Suppression in Aqueous Zincâ€Ion Batteries. Advanced Energy Materials, 2022, 12, 2102797.	10.2	79
165	Mechanistic Insight into the Stability of HfO₂â€Coated MoS₂ Nanosheet Anodes for Sodium Ion Batteries. Small, 2015, 11, 4341-4350.	5.2	78
166	Ternary chalcogenide micro-pseudocapacitors for on-chip energy storage. Chemical Communications, 2015, 51, 10494-10497.	2.2	78
167	Engineering Sodium-Ion Solvation Structure to Stabilize Sodium Anodes: Universal Strategy for Fast-Charging and Safer Sodium-Ion Batteries. Nano Letters, 2020, 20, 3247-3254.	4.5	78
168	Large Thermoelectric Power Factor in Pr-Doped SrTiO_{3â^'Î´} Ceramics via Grain-Boundary-Induced Mobility Enhancement. Chemistry of Materials, 2014, 26, 2478-2485.	3.2	77
169	Titanium Carbide (MXene) as a Current Collector for Lithium-Ion Batteries. ACS Omega, 2018, 3, 12489-12494.	1.6	77
170	Applications of Plasma in Energy Conversion and Storage Materials. Advanced Energy Materials, 2018, 8, 1801804.	10.2	77
171	Role of acid mixtures etching on the surface chemistry and sodium ion storage in Ti₃C₂T_x MXene. Chemical Communications, 2020, 56, 6090-6093.	2.2	76
172	Poly(3-hexylthiophene)â^'CdSe Quantum Dot Bulk Heterojunction Solar Cells: Influence of the Functional End-Group of the Polymer. Macromolecules, 2009, 42, 3845-3848.	2.2	75
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