

Minghao Yu

List of Publications by Citations

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103
papers

16,977
citations

63
h-index

112
g-index

112
ext. papers

19,073
ext. citations

14.5
avg, IF

6.97
L-index

#	Paper	IF	Citations
103	Hydrogenated TiO ₂ nanotube arrays for supercapacitors. <i>Nano Letters</i> , 2012 , 12, 1690-6	11.5	1113
102	Flexible solid-state supercapacitors: design, fabrication and applications. <i>Energy and Environmental Science</i> , 2014 , 7, 2160	35.4	985
101	Amorphous nickel hydroxide nanospheres with ultrahigh capacitance and energy density as electrochemical pseudocapacitor materials. <i>Nature Communications</i> , 2013 , 4, 1894	17.4	921
100	H-TiO(2) @MnO(2) //H-TiO(2) @C core-shell nanowires for high performance and flexible asymmetric supercapacitors. <i>Advanced Materials</i> , 2013 , 25, 267-72	24	828
99	Oxygen-deficient hematite nanorods as high-performance and novel negative electrodes for flexible asymmetric supercapacitors. <i>Advanced Materials</i> , 2014 , 26, 3148-55	24	705
98	High energy density asymmetric quasi-solid-state supercapacitor based on porous vanadium nitride nanowire anode. <i>Nano Letters</i> , 2013 , 13, 2628-33	11.5	622
97	Polyaniline and polypyrrole pseudocapacitor electrodes with excellent cycling stability. <i>Nano Letters</i> , 2014 , 14, 2522-7	11.5	589
96	Stabilized TiN nanowire arrays for high-performance and flexible supercapacitors. <i>Nano Letters</i> , 2012 , 12, 5376-81	11.5	563
95	Solid-state supercapacitor based on activated carbon cloths exhibits excellent rate capability. <i>Advanced Materials</i> , 2014 , 26, 2676-82, 2615	24	555
94	Achieving Ultrahigh Energy Density and Long Durability in a Flexible Rechargeable Quasi-Solid-State Zn-MnO Battery. <i>Advanced Materials</i> , 2017 , 29, 1700274	24	450
93	Advanced Ti-Doped Fe ₂ O ₃ @PEDOT Core/Shell Anode for High-Energy Asymmetric Supercapacitors. <i>Advanced Energy Materials</i> , 2015 , 5, 1402176	21.8	367
92	Nitrogen-Doped Co O Mesoporous Nanowire Arrays as an Additive-Free Air-Cathode for Flexible Solid-State Zinc-Air Batteries. <i>Advanced Materials</i> , 2017 , 29, 1602868	24	353
91	Oxygen vacancies promoting photoelectrochemical performance of In(2)O(3) nanocubes. <i>Scientific Reports</i> , 2013 , 3, 1021	4.9	351
90	A Novel Exfoliation Strategy to Significantly Boost the Energy Storage Capability of Commercial Carbon Cloth. <i>Advanced Materials</i> , 2015 , 27, 3572-8	24	332
89	Oxygen vacancies enhancing capacitive properties of MnO ₂ nanorods for wearable asymmetric supercapacitors. <i>Nano Energy</i> , 2014 , 8, 255-263	17.1	323
88	Flexible Zn-Ion Batteries: Recent Progresses and Challenges. <i>Small</i> , 2019 , 15, e1804760	11	277
87	A new benchmark capacitance for supercapacitor anodes by mixed-valence sulfur-doped V ₆ O(13-x). <i>Advanced Materials</i> , 2014 , 26, 5869-75	24	276

86	Iron-Based Supercapacitor Electrodes: Advances and Challenges. <i>Advanced Energy Materials</i> , 2016 , 6, 1601053	21.8	270
85	Two-dimensional materials for miniaturized energy storage devices: from individual devices to smart integrated systems. <i>Chemical Society Reviews</i> , 2018 , 47, 7426-7451	58.5	270
84	Scalable self-growth of Ni@NiO core-shell electrode with ultrahigh capacitance and super-long cyclic stability for supercapacitors. <i>NPG Asia Materials</i> , 2014 , 6, e129-e129	10.3	248
83	Boosting the Energy Density of Carbon-Based Aqueous Supercapacitors by Optimizing the Surface Charge. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 5454-5459	16.4	234
82	3D MnO ₂ -graphene composites with large areal capacitance for high-performance asymmetric supercapacitors. <i>Nanoscale</i> , 2013 , 5, 6790-6	7.7	234
81	An Ultrastable and High-Performance Flexible Fiber-Shaped Ni-Zn Battery based on a Ni-NiO Heterostructured Nanosheet Cathode. <i>Advanced Materials</i> , 2017 , 29, 1702698	24	231
80	Multiscale Pore Network Boosts Capacitance of Carbon Electrodes for Ultrafast Charging. <i>Nano Letters</i> , 2017 , 17, 3097-3104	11.5	206
79	Dual-Doped Molybdenum Trioxide Nanowires: A Bifunctional Anode for Fiber-Shaped Asymmetric Supercapacitors and Microbial Fuel Cells. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 6762-6	16.4	203
78	Improving the Cycling Stability of Metal Nitride Supercapacitor Electrodes with a Thin Carbon Shell. <i>Advanced Energy Materials</i> , 2014 , 4, 1300994	21.8	188
77	Controllable synthesis of porous nickel-cobalt oxide nanosheets for supercapacitors. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13357		188
76	Flexible Ultrafast Aqueous Rechargeable Ni//Bi Battery Based on Highly Durable Single-Crystalline Bismuth Nanostructured Anode. <i>Advanced Materials</i> , 2016 , 28, 9188-9195	24	178
75	TiO ₂ @C core-shell nanowires for high-performance and flexible solid-state supercapacitors. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 225-229	7.1	176
74	Valence-Optimized Vanadium Oxide Supercapacitor Electrodes Exhibit Ultrahigh Capacitance and Super-Long Cyclic Durability of 100 000 Cycles. <i>Advanced Functional Materials</i> , 2015 , 25, 3534-3540	15.6	166
73	Extracting oxygen anions from ZnMn ₂ O ₄ : Robust cathode for flexible all-solid-state Zn-ion batteries. <i>Energy Storage Materials</i> , 2019 , 21, 154-161	19.4	159
72	Holey tungsten oxynitride nanowires: novel anodes efficiently integrate microbial chemical energy conversion and electrochemical energy storage. <i>Advanced Materials</i> , 2015 , 27, 3085-91	24	156
71	Binder-free Fe ₂ N nanoparticles on carbon textile with high power density as novel anode for high-performance flexible lithium ion batteries. <i>Nano Energy</i> , 2015 , 11, 348-355	17.1	156
70	New Insights into the Operating Voltage of Aqueous Supercapacitors. <i>Chemistry - A European Journal</i> , 2018 , 24, 3639-3649	4.8	154
69	Building Three-Dimensional Graphene Frameworks for Energy Storage and Catalysis. <i>Advanced Functional Materials</i> , 2015 , 25, 324-330	15.6	140

68	Amorphous cobalt hydroxide with superior pseudocapacitive performance. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 745-9	9.5	135
67	Water surface assisted synthesis of large-scale carbon nanotube film for high-performance and stretchable supercapacitors. <i>Advanced Materials</i> , 2014 , 26, 4724-9	24	134
66	Engineering Thin MoS ₂ Nanosheets on TiN Nanorods: Advanced Electrochemical Capacitor Electrode and Hydrogen Evolution Electrocatalyst. <i>ACS Energy Letters</i> , 2017 , 2, 1862-1868	20.1	134
65	Recent progress in the development of anodes for asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4634-4658	13	132
64	Three dimensional architectures: design, assembly and application in electrochemical capacitors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 15792-15823	13	125
63	Facile synthesis of titanium nitride nanowires on carbon fabric for flexible and high-rate lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 10825-10829	13	124
62	Recent Smart Methods for Achieving High-Energy Asymmetric Supercapacitors. <i>Small Methods</i> , 2018 , 2, 1700230	12.8	122
61	A Confinement Strategy for Stabilizing ZIF-Derived Bifunctional Catalysts as a Benchmark Cathode of Flexible All-Solid-State Zinc-Air Batteries. <i>Advanced Materials</i> , 2018 , 30, e1805268	24	111
60	Manganese dioxide nanorod arrays on carbon fabric for flexible solid-state supercapacitors. <i>Journal of Power Sources</i> , 2013 , 239, 64-71	8.9	110
59	Titanium dioxide@polypyrrole core-shell nanowires for all solid-state flexible supercapacitors. <i>Nanoscale</i> , 2013 , 5, 10806-10	7.7	109
58	A Crystalline, 2D Polyarylimide Cathode for Ultrastable and Ultrafast Li Storage. <i>Advanced Materials</i> , 2019 , 31, e1901478	24	103
57	Titanium dioxide@titanium nitride nanowires on carbon cloth with remarkable rate capability for flexible lithium-ion batteries. <i>Journal of Power Sources</i> , 2014 , 272, 946-953	8.9	103
56	An electrodeposited lanthanide MOF thin film as a luminescent sensor for carbonate detection in aqueous solution. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 8683-8690	7.1	102
55	Thin-Film Electrode-Based Supercapacitors. <i>Joule</i> , 2019 , 3, 338-360	27.8	92
54	Self-Activating, Capacitive Anion Intercalation Enables High-Power Graphite Cathodes. <i>Advanced Materials</i> , 2018 , 30, e1800533	24	86
53	Oxygen Defect Modulated Titanium Niobium Oxide on Graphene Arrays: An Open-Door for High-Performance 1.4 V Symmetric Supercapacitor in Acidic Aqueous Electrolyte. <i>Advanced Functional Materials</i> , 2018 , 28, 1805618	15.6	86
52	Improving the photoelectrochemical and photocatalytic performance of CdO nanorods with CdS decoration. <i>CrystEngComm</i> , 2013 , 15, 4212	3.3	85
51	Designing Carbon Based Supercapacitors with High Energy Density: A Summary of Recent Progress. <i>Chemistry - A European Journal</i> , 2018 , 24, 7312-7329	4.8	81

50	A High-Rate Two-Dimensional Polyarylimide Covalent Organic Framework Anode for Aqueous Zn-Ion Energy Storage Devices. <i>Journal of the American Chemical Society</i> , 2020 , 142, 19570-19578	16.4	79
49	Two-Dimensional Carbon-Rich Conjugated Frameworks for Electrochemical Energy Applications. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12903-12915	16.4	79
48	Carbon materials for ion-intercalation involved rechargeable battery technologies. <i>Chemical Society Reviews</i> , 2021 , 50, 2388-2443	58.5	79
47	Sulphur-doped Co ₃ O ₄ nanowires as an advanced negative electrode for high-energy asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 10779-10785	13	78
46	Controllable synthesis of Zn _x Cd _{1-x} S@ZnO core-shell nanorods with enhanced photocatalytic activity. <i>Langmuir</i> , 2012 , 28, 10558-64	4	78
45	Enhanced photoactivity and stability of carbon and nitrogen co-treated ZnO nanorod arrays for photoelectrochemical water splitting. <i>Journal of Materials Chemistry</i> , 2012 , 22, 14272		76
44	Hydrogen production from solar driven glucose oxidation over Ni(OH) ₂ functionalized electroreduced-TiO ₂ nanowire arrays. <i>Green Chemistry</i> , 2013 , 15, 2434	10	68
43	Controllable synthesis of hierarchical ZnO nanodisks for highly photocatalytic activity. <i>CrystEngComm</i> , 2012 , 14, 1850	3.3	66
42	Bifunctional Iron-Nickel Nitride Nanoparticles as Flexible and Robust Electrode for Overall Water Splitting. <i>Electrochimica Acta</i> , 2017 , 247, 666-673	6.7	65
41	Recent advances and challenges of stretchable supercapacitors based on carbon materials. <i>Science China Materials</i> , 2016 , 59, 475-494	7.1	64
40	Dual-Doped Molybdenum Trioxide Nanowires: A Bifunctional Anode for Fiber-Shaped Asymmetric Supercapacitors and Microbial Fuel Cells. <i>Angewandte Chemie</i> , 2016 , 128, 6874-6878	3.6	63
39	Flexible in-plane micro-supercapacitors: Progresses and challenges in fabrication and applications. <i>Energy Storage Materials</i> , 2020 , 28, 160-187	19.4	57
38	Interlayer gap widened α -phase molybdenum trioxide as high-rate anodes for dual-ion-intercalation energy storage devices. <i>Nature Communications</i> , 2020 , 11, 1348	17.4	55
37	Surface engineering of carbon fiber paper for efficient capacitive energy storage. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 18639-18645	13	54
36	Facile synthesis of large-area CeO ₂ /ZnO nanotube arrays for enhanced photocatalytic hydrogen evolution. <i>Journal of Power Sources</i> , 2014 , 247, 545-550	8.9	54
35	A Stimulus-Responsive Zinc-Iodine Battery with Smart Overcharge Self-Protection Function. <i>Advanced Materials</i> , 2020 , 32, e2000287	24	53
34	Hierarchical CeO ₂ nanospheres as highly-efficient adsorbents for dye removal. <i>New Journal of Chemistry</i> , 2013 , 37, 585	3.6	53
33	Surface modulation of NiCo ₂ O ₄ nanowire arrays with significantly enhanced reactivity for ultrahigh-energy supercapacitors. <i>Chemical Engineering Journal</i> , 2018 , 352, 996-1003	14.7	52

32	Boosting the Energy Density of Carbon-Based Aqueous Supercapacitors by Optimizing the Surface Charge. <i>Angewandte Chemie</i> , 2017 , 129, 5546-5551	3.6	46
31	Porous Pr(OH) ₃ nanostructures as high-efficiency adsorbents for dye removal. <i>Langmuir</i> , 2012 , 28, 11078-85	4.8	46
30	Interlayer Engineering of HMoO Modulates Selective Hydronium Intercalation in Neutral Aqueous Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 896-903	16.4	45
29	Promoted oxygen reduction kinetics on nitrogen-doped hierarchically porous carbon by engineering proton-feeding centers. <i>Energy and Environmental Science</i> , 2020 , 13, 2849-2855	35.4	44
28	Ultrathin two-dimensional conjugated metal-organic framework single-crystalline nanosheets enabled by surfactant-assisted synthesis. <i>Chemical Science</i> , 2020 , 11, 7665-7671	9.4	44
27	Monolithic three-dimensional graphene frameworks derived from inexpensive graphite paper as advanced anodes for microbial fuel cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6342-6349	13	41
26	Porous MoO nanowires as stable and high-rate negative electrodes for electrochemical capacitors. <i>Chemical Communications</i> , 2017 , 53, 3929-3932	5.8	40
25	Amino functionalization optimizes potential distribution: A facile pathway towards high-energy carbon-based aqueous supercapacitors. <i>Nano Energy</i> , 2019 , 65, 103987	17.1	39
24	Conductive membranes of EVA filled with carbon black and carbon nanotubes for flexible energy-storage devices. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 505-509	13	35
23	Improving the Lithium-Storage Properties of Self-Grown Nickel Oxide: A Back-Up from TiO ₂ Nanoparticles. <i>ChemElectroChem</i> , 2015 , 2, 1243-1248	4.3	33
22	Nitrogen doped graphene paper as a highly conductive, and light-weight substrate for flexible supercapacitors. <i>RSC Advances</i> , 2014 , 4, 51878-51883	3.7	26
21	Tb(III) postsynthetic functional coordination polymer coatings on ZnO micronanoarrays and their application in small molecule sensing. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 8466-8472	7.1	24
20	One step cathodically electrodeposited [Tb ₂ (BDC) ₃ (H ₂ O) ₄] _n thin film as a luminescent probe for Cu ²⁺ detection. <i>RSC Advances</i> , 2014 , 4, 58178-58183	3.7	23
19	Vertical bismuth oxide nanosheets with enhanced crystallinity: promising stable anodes for rechargeable alkaline batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 25539-25544	13	22
18	Dual-Redox-Sites Enable Two-Dimensional Conjugated Metal-Organic Frameworks with Large Pseudocapacitance and Wide Potential Window. <i>Journal of the American Chemical Society</i> , 2021 , 143, 10168-10176	16.4	20
17	Interfacial Covalent Bonds Regulated Electron-Deficient 2D Black Phosphorus for Electrocatalytic Oxygen Reactions. <i>Advanced Materials</i> , 2021 , 33, e2008752	24	18
16	A Nonaqueous Na-Ion Hybrid Micro-Supercapacitor with Wide Potential Window and Ultrahigh Areal Energy Density. <i>Batteries and Supercaps</i> , 2019 , 2, 918-923	5.6	17
15	Materials and technologies for multifunctional, flexible or integrated supercapacitors and batteries. <i>Materials Today</i> , 2021 , 48, 176-176	21.8	17

14	On-Chip Integration of a Covalent Organic Framework-Based Catalyst into a Miniaturized Zn-Air Battery with High Energy Density. <i>ACS Energy Letters</i> , 2021 , 6, 2491-2498	20.1	17
13	Redox-Active Metaphosphate-like Terminals Enable High-Capacity MXene Anodes for Ultrafast Na-ion Storage.. <i>Advanced Materials</i> , 2022 , e2108682	24	14
12	Co ₃ O ₄ @Co Nanoparticles Embedded Porous N-Rich Carbon Matrix for Efficient Oxygen Reduction. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1700074	3.1	11
11	3D V ₃ O ₇ ·H ₂ O/Partially Exfoliated Carbon Nanotube Composites with Significantly Improved Lithium Storage Ability. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 531-537	3.1	11
10	Scalable Manufacturing of MXene Films: Moving toward Industrialization. <i>Matter</i> , 2020 , 3, 335-336	12.7	7
9	Functional Electrolytes: Game Changers for Smart Electrochemical Energy Storage Devices. <i>Small Science</i> , 2100080		5
8	Layered electrode materials for non-aqueous multivalent metal batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 19317-19345	13	3
7	Constructing Hydrophobic Interface with Close-Packed Coordination Supramolecular Network for Long-Cycling and Dendrite-Free Zn-Metal Batteries.. <i>Small</i> , 2022 , e2107971	11	3
6	Interlayer Engineering of HMoO ₃ Modulates Selective Hydronium Intercalation in Neutral Aqueous Electrolyte. <i>Angewandte Chemie</i> , 2021 , 133, 909-916	3.6	2
5	Frontispiece: New Insights into the Operating Voltage of Aqueous Supercapacitors. <i>Chemistry - A European Journal</i> , 2018 , 24,	4.8	1
4	Coupling electrode-redox electrolyte within carbon nanotube arrays for supercapacitors with suppressed self-discharge. <i>Sustainable Materials and Technologies</i> , 2021 , 28, e00284	5.3	1
3	Structure engineering of van der Waals layered transition metal-containing compounds for aqueous energy storage. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 2996-3020	7.8	1
2	Facile assembly of layer-interlocked graphene heterostructures as flexible electrodes for Li-ion batteries. <i>Faraday Discussions</i> , 2021 , 227, 321-331	3.6	0
1	Understanding the Role of Topotactic Anion Exchange in the Robust Cu Ion Storage of CuS _{1-x} Sex. <i>ACS Energy Letters</i> , 2022 , 7, 1835-1841	20.1	0