

Qi Yang

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/8147236/qi-yang-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76
papers

5,090
citations

39
h-index

71
g-index

87
ext. papers

7,493
ext. citations

17.2
avg, IF

6.28
L-index

#	Paper	IF	Citations
76	Freeze-Tolerant Hydrogel Electrolyte with High Strength for Stable Operation of Flexible Zinc-Ion Hybrid Supercapacitors.. <i>Small</i> , 2022 , e2200055	11	2
75	Mechanistic Study of Interfacial Modification for Stable Zn Anode Based on a Thin Separator.. <i>Small</i> , 2022 , e2201045	11	3
74	Stabilizing Interface pH by N-Modified Graphdiyne for Dendrite-Free and High-Rate Aqueous Zn-ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	21
73	Categorizing wearable batteries: Unidirectional and omnidirectional deformable batteries. <i>Matter</i> , 2021 , 4, 3146-3160	12.7	11
72	Conversion-Type Nonmetal Elemental Tellurium Anode with High Utilization for Mild/Alkaline Zinc Batteries. <i>Advanced Materials</i> , 2021 , e2105426	24	10
71	Intrinsic voltage plateau of a Nb ₂ CTx MXene cathode in an aqueous electrolyte induced by high-voltage scanning. <i>Joule</i> , 2021 ,	27.8	20
70	Small-Dipole-Molecule-Containing Electrolytes for High-Voltage Aqueous Rechargeable Batteries. <i>Advanced Materials</i> , 2021 , e2106180	24	14
69	Design and Fabrication of Hierarchical NiCoP-MOF Heterostructure with Enhanced Pseudocapacitive Properties. <i>Small</i> , 2021 , 17, e2100353	11	31
68	Manipulating anion intercalation enables a high-voltage aqueous dual ion battery. <i>Nature Communications</i> , 2021 , 12, 3106	17.4	25
67	A manganese hexacyanoferrate framework with enlarged ion tunnels and two-species redox reaction for aqueous Al-ion batteries. <i>Nano Energy</i> , 2021 , 84, 105945	17.1	20
66	High-Energy Aqueous Magnesium Hybrid Full Batteries Enabled by Carrier-Hosting Potential Compensation. <i>Angewandte Chemie</i> , 2021 , 133, 5503-5512	3.6	5
65	High-Energy Aqueous Magnesium Hybrid Full Batteries Enabled by Carrier-Hosting Potential Compensation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 5443-5452	16.4	21
64	Stretchable Energy Storage Devices: From Materials and Structural Design to Device Assembly. <i>Advanced Energy Materials</i> , 2021 , 11, 2003308	21.8	28
63	Effects of Anion Carriers on Capacitance and Self-Discharge Behaviors of Zinc Ion Capacitors. <i>Angewandte Chemie</i> , 2021 , 133, 1024-1034	3.6	11
62	Effects of Anion Carriers on Capacitance and Self-Discharge Behaviors of Zinc Ion Capacitors. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 1011-1021	16.4	70
61	Grafted MXene/polymer electrolyte for high performance solid zinc batteries with enhanced shelf life at low/high temperatures. <i>Energy and Environmental Science</i> , 2021 , 14, 3492-3501	35.4	44
60	Activating the I ₀ /I ⁺ redox couple in an aqueous I ₂ /Zn battery to achieve a high voltage plateau. <i>Energy and Environmental Science</i> , 2021 , 14, 407-413	35.4	38

59	Confining Aqueous Zn-Br Halide Redox Chemistry by TiCT MXene. <i>ACS Nano</i> , 2021 , 15, 1718-1726	16.7	28
58	Calendar Life of Zn Batteries Based on Zn Anode with Zn Powder/Current Collector Structure. <i>Advanced Energy Materials</i> , 2021 , 11, 2003931	21.8	48
57	Regulating nitrogenous adsorption and desorption on Pd clusters by the acetylene linkages of hydrogen substituted graphdiyne for efficient electrocatalytic ammonia synthesis. <i>Nano Energy</i> , 2021 , 86, 106099	17.1	10
56	Toward a Practical Zn Powder Anode: TiCT MXene as a Lattice-Match Electrons/Ions Redistributor. <i>ACS Nano</i> , 2021 , 15, 14631-14642	16.7	26
55	Zinc/selenium conversion battery: a system highly compatible with both organic and aqueous electrolytes. <i>Energy and Environmental Science</i> , 2021 , 14, 2441-2450	35.4	35
54	Enhanced Redox Kinetics and Duration of Aqueous I/I Conversion Chemistry by MXene Confinement. <i>Advanced Materials</i> , 2021 , 33, e2006897	24	39
53	Pd doping-weakened intermediate adsorption to promote electrocatalytic nitrate reduction on TiO ₂ nanoarrays for ammonia production and energy supply with zinc/bratrate batteries. <i>Energy and Environmental Science</i> , 2021 , 14, 3938-3944	35.4	41
52	Human joint-inspired structural design for a bendable/foldable/stretchable/twistable battery: achieving multiple deformabilities. <i>Energy and Environmental Science</i> , 2021 , 14, 3599-3608	35.4	19
51	Lattice Matching and Halogen Regulation for Synergistically Induced Uniform Zinc Electrodeposition by Halogenated TiC MXenes.. <i>ACS Nano</i> , 2021 ,	16.7	15
50	Metal-Tellurium Batteries: A Rising Energy Storage System. <i>Small Structures</i> , 2020 , 1, 2000005	8.7	18
49	Phosphorene as Cathode Material for High-Voltage, Anti-Self-Discharge Zinc Ion Hybrid Capacitors. <i>Advanced Energy Materials</i> , 2020 , 10, 2001024	21.8	96
48	Hydrogen-Substituted Graphdiyne Ion Tunnels Directing Concentration Redistribution for Commercial-Grade Dendrite-Free Zinc Anodes. <i>Advanced Materials</i> , 2020 , 32, e2001755	24	136
47	Highly Efficient Electrochemical Reduction of Nitrogen to Ammonia on Surface Termination Modified TiCT MXene Nanosheets. <i>ACS Nano</i> , 2020 , 14, 9089-9097	16.7	71
46	Energy density issues of flexible energy storage devices. <i>Energy Storage Materials</i> , 2020 , 28, 264-292	19.4	61
45	Initiating a Reversible Aqueous Zn/Sulfur Battery through a "Liquid Film". <i>Advanced Materials</i> , 2020 , 32, e2003070	24	47
44	Dendrites issues and advances in Zn anode for aqueous rechargeable Zn-based batteries. <i>EcoMat</i> , 2020 , 2, e12035	9.4	48
43	Initiating Hexagonal MoO for Superb-Stable and Fast NH Storage Based on Hydrogen Bond Chemistry. <i>Advanced Materials</i> , 2020 , 32, e1907802	24	83
42	Metal-Tuned Acetylene Linkages in Hydrogen Substituted Graphdiyne Boosting the Electrochemical Oxygen Reduction. <i>Small</i> , 2020 , 16, e1907341	11	26

41	Phase Transition Induced Unusual Electrochemical Performance of VCT MXene for Aqueous Zinc Hybrid-Ion Battery. <i>ACS Nano</i> , 2020 , 14, 541-551	16.7	99
40	Voltage issue of aqueous rechargeable metal-ion batteries. <i>Chemical Society Reviews</i> , 2020 , 49, 180-232	58.5	301
39	In Situ Electrochemical Synthesis of MXenes without Acid/Alkali Usage in/for an Aqueous Zinc Ion Battery. <i>Advanced Energy Materials</i> , 2020 , 10, 2001791	21.8	56
38	A rechargeable Al _N 2 battery for energy storage and highly efficient N ₂ fixation. <i>Energy and Environmental Science</i> , 2020 , 13, 2888-2895	35.4	26
37	Vertically Aligned Sn ⁴⁺ Preintercalated Ti ₂ CTX MXene Sphere with Enhanced Zn Ion Transportation and Superior Cycle Lifespan. <i>Advanced Energy Materials</i> , 2020 , 10, 2001394	21.8	71
36	Dendrites in Zn-Based Batteries. <i>Advanced Materials</i> , 2020 , 32, e2001854	24	211
35	Aqueous Zinc-Tellurium Batteries with Ultraflat Discharge Plateau and High Volumetric Capacity. <i>Advanced Materials</i> , 2020 , 32, e2001469	24	45
34	A Wholly Degradable, Rechargeable Zn-TiC MXene Capacitor with Superior Anti-Self-Discharge Function. <i>ACS Nano</i> , 2019 , 13, 8275-8283	16.7	145
33	Recent Advances in Electrode Fabrication for Flexible Energy-Storage Devices. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900083	6.8	33
32	Inhibiting Grain Pulverization and Sulfur Dissolution of Bismuth Sulfide by Ionic Liquid Enhanced Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate) for High-Performance Zinc-Ion Batteries. <i>ACS Nano</i> , 2019 , 13, 7270-7280	16.7	51
31	Activating C-Coordinated Iron of Iron Hexacyanoferrate for Zn Hybrid-Ion Batteries with 10 000-Cycle Lifespan and Superior Rate Capability. <i>Advanced Materials</i> , 2019 , 31, e1901521	24	173
30	Binder-free hierarchical VS ₂ electrodes for high-performance aqueous Zn ion batteries towards commercial level mass loading. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16330-16338	13	83
29	A Usage Scenario Independent Air Chargeable Flexible Zinc Ion Energy Storage Device. <i>Advanced Energy Materials</i> , 2019 , 9, 1900509	21.8	59
28	A mechanically durable and device-level tough Zn-MnO ₂ battery with high flexibility. <i>Energy Storage Materials</i> , 2019 , 23, 636-645	19.4	97
27	Super-Stretchable Zinc Air Batteries Based on an Alkaline-Tolerant Dual-Network Hydrogel Electrolyte. <i>Advanced Energy Materials</i> , 2019 , 9, 1803046	21.8	185
26	A Highly Elastic and Reversibly Stretchable All-Polymer Supercapacitor. <i>Angewandte Chemie</i> , 2019 , 131, 15854-15858	3.6	21
25	A Highly Elastic and Reversibly Stretchable All-Polymer Supercapacitor. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 15707-15711	16.4	122
24	Ni ₃ S ₂ /Ni nanosheet arrays for high-performance flexible zinc hybrid batteries with evident two-stage charge and discharge processes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18915-18924	13	39

23	A Universal Principle to Design Reversible Aqueous Batteries Based on DepositionDissolution Mechanism. <i>Advanced Energy Materials</i> , 2019 , 9, 1901838	21.8	83
22	Toward Multifunctional and Wearable Smart Skins with Energy-Harvesting, Touch-Sensing, and Exteroception-Visualizing Capabilities by an All-Polymer Design. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900553	6.4	24
21	Do Zinc Dendrites Exist in Neutral Zinc Batteries: A Developed Electrohealing Strategy to In Situ Rescue In-Service Batteries. <i>Advanced Materials</i> , 2019 , 31, e1903778	24	285
20	A Flexible Solid-State Aqueous Zinc Hybrid Battery with Flat and High-Voltage Discharge Plateau. <i>Advanced Energy Materials</i> , 2019 , 9, 1902473	21.8	79
19	Commencing an Acidic Battery Based on a Copper Anode with Ultrafast Proton-Regulated Kinetics and Superior Dendrite-Free Property. <i>Advanced Materials</i> , 2019 , 31, e1905873	24	46
18	Hydrated hybrid vanadium oxide nanowires as the superior cathode for aqueous Zn battery. <i>Materials Today Energy</i> , 2019 , 14, 100361	7	48
17	MoS2 nanosheets with expanded interlayer spacing for rechargeable aqueous Zn-ion batteries. <i>Energy Storage Materials</i> , 2019 , 19, 94-101	19.4	227
16	Single-Site Active Iron-Based Bifunctional Oxygen Catalyst for a Compressible and Rechargeable Zinc-Air Battery. <i>ACS Nano</i> , 2018 , 12, 1949-1958	16.7	255
15	A smart safe rechargeable zinc ion battery based on sol-gel transition electrolytes. <i>Science Bulletin</i> , 2018 , 63, 1077-1086	10.6	94
14	Porous single-crystal NaTi2(PO4)3 via liquid transformation of TiO2 nanosheets for flexible aqueous Na-ion capacitor. <i>Nano Energy</i> , 2018 , 50, 623-631	17.1	88
13	A Nanofibrillated Cellulose/Polyacrylamide Electrolyte-Based Flexible and Sewable High-Performance Zn-MnO Battery with Superior Shear Resistance. <i>Small</i> , 2018 , 14, e1803978	11	119
12	Recent Progress of MXene-Based Nanomaterials in Flexible Energy Storage and Electronic Devices. <i>Energy and Environmental Materials</i> , 2018 , 1, 183-195	13	87
11	Highly Compressible Cross-Linked Polyacrylamide Hydrogel-Enabled Compressible Zn-MnO Battery and a Flexible Battery-Sensor System. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 44527-44534	9.5	75
10	Hydrogel Electrolytes for Flexible Aqueous Energy Storage Devices. <i>Advanced Functional Materials</i> , 2018 , 28, 1804560	15.6	253
9	In situ formation of NaTi2(PO4)3 cubes on Ti3C2 MXene for dual-mode sodium storage. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18525-18532	13	36
8	Engineering hollow polyhedrons structured from carbon-coated CoSe2 nanospheres bridged by CNTs with boosted sodium storage performance. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13591-13600 ¹³		160
7	Synthesis of 3D Flower-like Nanocomposites of Nitrogen-Doped Carbon Nanosheets Embedded with Hollow Cobalt(II,III) Oxide Nanospheres for Lithium Storage. <i>ChemElectroChem</i> , 2017 , 4, 102-108	4.3	12
6	Facile one-step synthesis of highly graphitized hierarchical porous carbon nanosheets with large surface area and high capacity for lithium storage. <i>RSC Advances</i> , 2016 , 6, 51146-51152	3.7	2

5	Synthesis of polypyridyl ruthenium complexes with 2-(1-aryl)-1H-imidazo[4,5-f]-1,10-phenanthroline ligand and its application for luminescent oxygen sensing. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2010 , 5, 193-199		8
4	Insight on Organic Molecules in Aqueous Zn-Ion Batteries with an Emphasis on the Zn Anode Regulation. <i>Advanced Energy Materials</i> , 2102707	21.8	29
3	Efficient Ammonia Electrosynthesis and Energy Conversion through a Zn-Nitrate Battery by Iron Doping Engineered Nickel Phosphide Catalyst. <i>Advanced Energy Materials</i> , 2103872	21.8	10
2	Cathode Engineering for High Energy Density Aqueous Zn Batteries. <i>Accounts of Materials Research</i> ,	7.5	5
1	Strategies of binder design for high-performance lithium-ion batteries: a mini review. <i>Rare Metals</i> , 1	5.5	3