Yu-Xiang Hu

List of Publications by Year
in descending order

63	5,517	101543	102487
papers	citations	36 h-index	66 g-index

70	70	70	7989
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Phase and composition controllable synthesis of cobalt manganese spinel nanoparticles towards efficient oxygen electrocatalysis. Nature Communications, 2015, 6, 7345.	12.8	500
2	An Electrochemically Treated BiVO₄ Photoanode for Efficient Photoelectrochemical Water Splitting. Angewandte Chemie - International Edition, 2017, 56, 8500-8504.	13.8	369
3	Fabrication of Spinel One-Dimensional Architectures by Single-Spinneret Electrospinning for Energy Storage Applications. ACS Nano, 2015, 9, 1945-1954.	14.6	349
4	An Innovative Freezeâ€Dried Reduced Graphene Oxide Supported SnS₂ Cathode Active Material for Aluminumâ€Ion Batteries. Advanced Materials, 2017, 29, 1606132.	21.0	263
5	A Binderâ€Free and Freeâ€Standing Cobalt Sulfide@Carbon Nanotube Cathode Material for Aluminumâ€Ion Batteries. Advanced Materials, 2018, 30, 1703824.	21.0	250
6	New Ironâ€Cobalt Oxide Catalysts Promoting BiVO₄ Films for Photoelectrochemical Water Splitting. Advanced Functional Materials, 2018, 28, 1802685.	14.9	248
7	Hydrogenated Uniform Pt Clusters Supported on Porous CaMnO₃ as a Bifunctional Electrocatalyst for Enhanced Oxygen Reduction and Evolution. Advanced Materials, 2014, 26, 2047-2051.	21.0	244
8	Sandwichâ€Like Ultrathin TiS₂ Nanosheets Confined within N, S Codoped Porous Carbon as an Effective Polysulfide Promoter in Lithiumâ€Sulfur Batteries. Advanced Energy Materials, 2019, 9, 1901872.	19.5	186
9	Sulfur Nanodots Electrodeposited on Ni Foam as High-Performance Cathode for Liâ€“S Batteries. Nano Letters, 2015, 15, 721-726.	9.1	175
10	Potassiumâ€“Sulfur Batteries: A New Member of Room-Temperature Rechargeable Metalâ€“Sulfur Batteries. Inorganic Chemistry, 2014, 53, 9000-9005.	4.0	163
11	Carbonâ€Coated Na_{3.32}Fe_{2.34}(P₂O₇)₂ Cathode Material for Highâ€Rate and Longâ€Life Sodiumâ€Ion Batteries. Advanced Materials, 2017, 29, 1605535.	21.0	161
12	Lithiationâ€Induced Vacancy Engineering of Co₃O₄ with Improved Faradic Reactivity for Highâ€Performance Supercapacitor. Advanced Functional Materials, 2020, 30, 2004172.	14.9	156
13	Porous perovskite CaMnO3as an electrocatalyst for rechargeable Liâ€“O2batteries. Chemical Communications, 2014, 50, 1497-1499.	4.1	140
14	Cobalt nanoparticles encapsulated in carbon nanotube-grafted nitrogen and sulfur co-doped multichannel carbon fibers as efficient bifunctional oxygen electrocatalysts. Journal of Materials Chemistry A, 2017, 5, 4949-4961.	10.3	129
15	Controllable growth of SnS₂ nanostructures on nanocarbon surfaces for lithium-ion and sodium-ion storage with high rate capability. Journal of Materials Chemistry A, 2018, 6, 1462-1472.	10.3	117
16	Faster Activation and Slower Capacity/Voltage Fading: A Bifunctional Urea Treatment on Lithiumâ€Rich Cathode Materials. Advanced Functional Materials, 2020, 30, 1909192.	14.9	117
17	Îµ-MnO2 nanostructures directly grown on Ni foam: a cathode catalyst for rechargeable Liâ€“O2 batteries. Nanoscale, 2014, 6, 3522.	5.6	112
18	Recycling Application of Liâ€“MnO₂ Batteries as Rechargeable Lithiumâ€“Air Batteries. Angewandte Chemie - International Edition, 2015, 54, 4338-4343.	13.8	109

#	Article	IF	Citations
19	Lattice distortion induced internal electric field in TiO2 photoelectrode for efficient charge separation and transfer. Nature Communications, 2020, 11, 2129.	12.8	108
20	An Electrochemically Treated BiVO₄ Photoanode for Efficient Photoelectrochemical Water Splitting. Angewandte Chemie, 2017, 129, 8620-8624.	2.0	106
21	Porous perovskite calciumâ€“manganese oxide microspheres as an efficient catalyst for rechargeable sodiumâ€“oxygen batteries. Journal of Materials Chemistry A, 2015, 3, 3320-3324.	10.3	86
22	Recent Progress and Future Trends of Aluminum Batteries. Energy Technology, 2019, 7, 86-106.	3.8	85
23	Size effect of lithium peroxide on charging performance of Liâ€“O₂batteries. Nanoscale, 2014, 6, 177-180.	5.6	80
24	Efficiently Enhancing Oxygen Reduction Electrocatalytic Activity of MnO₂ Using Facile Hydrogenation. Advanced Energy Materials, 2015, 5, 1400654.	19.5	78
25	The impact of the molecular weight on the electrochemical properties of poly(TEMPO methacrylate). Polymer Chemistry, 2017, 8, 1815-1823.	3.9	78
26	Chemical etching of manganese oxides for electrocatalytic oxygen reduction reaction. Chemical Communications, 2015, 51, 11599-11602.	4.1	71
27	Uniform MnO2 nanostructures supported on hierarchically porous carbon as efficient electrocatalysts for rechargeable Li-O2 batteries. Nano Research, 2015, 8, 156-164.	10.4	65
28	Metal-organic framework derived Co@NC/CNT hybrid as a multifunctional electrocatalyst for hydrogen and oxygen evolution reaction and oxygen reduction reaction. International Journal of Hydrogen Energy, 2019, 44, 32054-32065.	7.1	65
29	Facile Synthesis of FePS3 Nanosheets@MXene Composite as a High-Performance Anode Material for Sodium Storage. Nano-Micro Letters, 2020, 12, 54.	27.0	62
30	Pyrene-Functionalized PTMA by NRC for Greater Ï€â€“Ï€ Stacking with rGO and Enhanced Electrochemical Properties. ACS Applied Materials & Interfaces, 2017, 9, 34900-34908.	8.0	60
31	Single-Atom Ru-Implanted Metalâ€“Organic Framework/MnO₂ for the Highly Selective Oxidation of NO_x by Plasma Activation. ACS Catalysis, 2020, 10, 10185-10196.	11.2	58
32	Delivering Sound Energy along an Arbitrary Convex Trajectory. Scientific Reports, 2014, 4, 6628.	3.3	50
33	A Portable and Efficient Solarâ€Rechargeable Battery with Ultrafast Photoâ€Charge/Discharge Rate. Advanced Energy Materials, 2019, 9, 1900872.	19.5	49
34	PSi@SiOx/Nano-Ag composite derived from silicon cutting waste as high-performance anode material for Li-ion batteries. Journal of Hazardous Materials, 2021, 414, 125480.	12.4	49
35	Controlled synthesis of porous spinel cobaltite core-shell microspheres as high-performance catalysts for rechargeable Liâ€“O2 batteries. Nano Energy, 2015, 13, 718-726.	16.0	48
36	Carbonâ€Based Alloyâ€Type Composite Anode Materials toward Sodiumâ€Ion Batteries. Small, 2019, 15, e1900628.	10.0	42

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37	The role of tungsten-related elements for improving the electrochemical performances of cathode materials in lithium ion batteries. Tungsten, 2021, 3, 245-259.	4.8	35
38	Characterisation of lithium-ion battery anodes fabricated via in-situ Cu6Sn5 growth on a copper current collector. Journal of Power Sources, 2019, 415, 50-61.	7.8	34
39	Unlocking the potential of commercial carbon nanofibers as free-standing positive electrodes for flexible aluminum ion batteries. Journal of Materials Chemistry A, 2019, 7, 15123-15130.	10.3	32
40	Epitaxial growth of an atom-thin layer on a LiNi0.5Mn1.5O4 cathode for stable Li-ion battery cycling. Nature Communications, 2022, 13, 1565.	12.8	32
41	The enhanced hydrogen storage of micro-nanostructured hybrids of Mg(BH₄)₂â€“carbon nanotubes. Nanoscale, 2015, 7, 18305-18311.	5.6	30
42	Polyethylenimine Expanded Graphite Oxide Enables High Sulfur Loading and Longâ€Term Stability of Lithiumâ€“Sulfur Batteries. Small, 2019, 15, e1804578.	10.0	30
43	All-Climate Aluminum-Ion Batteries Based on Binder-Free MOF-Derived FeS2@C/CNT Cathode. Nano-Micro Letters, 2021, 13, 159.	27.0	29
44	Heterocyclic Conjugated Polymer Nanoarchitectonics with Synergistic Redoxâ€Active Sites for Highâ€Performance Aluminium Organic Batteries. Angewandte Chemie - International Edition, 2022, 61, .	13.8	27
45	Nanoconfined Topochemical Conversion from MXene to Ultrathin Nonâ€Layered TiN Nanomesh toward Superior Electrocatalysts for Lithiumâ€Sulfur Batteries. Small, 2021, 17, e2101360.	10.0	25
46	A new sodium iron phosphate as a stable high-rate cathode material for sodium ion batteries. Nano Research, 2018, 11, 6197-6205.	10.4	24
47	Molecular-level anchoring of polymer cathodes on carbon nanotubes towards rapid-rate and long-cycle sodium-ion storage. Materials Chemistry Frontiers, 2018, 2, 1805-1810.	5.9	24
48	Flexible solar-rechargeable energy system. Energy Storage Materials, 2020, 32, 356-376.	18.0	23
49	Twoâ€Dimensional Materialâ€Functionalized Separators for Highâ€Energyâ€Density Metalâ€“Sulfur and Metalâ€Based Batteries. ChemSusChem, 2020, 13, 1366-1378.	6.8	20
50	An analysis of F-doping in Li-rich cathodes. Rare Metals, 2022, 41, 1771-1796.	7.1	15
51	A stable high-power Na2Ti3O7/LiNi0.5Mn1.5O4 Li-ion hybrid energy storage device. Electrochimica Acta, 2018, 284, 30-37.	5.2	12
52	Revealing the failure mechanism of transition-metal chalcogenides towards the copper current collector in secondary batteries. Journal of Materials Chemistry A, 2020, 8, 6569-6575.	10.3	12
53	A maximum likelihood direction of arrival estimation method for open-sphere microphone arrays in the spherical harmonic domain. Journal of the Acoustical Society of America, 2015, 138, 791-794.	1.1	10
54	Controlled synthesis of porous CaCo2O4 nanoflowers and their multifunctional applications for lithium ion batteries and oxygen evolution reaction. Journal of Alloys and Compounds, 2020, 812, 152099.	5.5	9

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55	Direction of arrival estimation of multiple acoustic sources using a maximum likelihood method in the spherical harmonic domain. Applied Acoustics, 2018, 135, 85-90.	3.3	8
56	Solvo/Hydrothermal Preparation of MnO_x@rGO Nanocomposites for Electrocatalytic Oxygen Reduction. Acta Chimica Sinica, 2014, 72, 920.	1.4	7
57	Heterocyclic Conjugated Polymer Nanoarchitectonics with Synergistic Redoxâ€Active Sites for Highâ€Performance Aluminium Organic Batteries. Angewandte Chemie, 2022, 134, .	2.0	4
58	The crystal structure and characterization of 2-D and 3-D indium phosphates synthesized from a water/ethylene glycol mixed-solvent system. Inorganica Chimica Acta, 2012, 385, 39-44.	2.4	3
59	Compensating the distortion of micro-speakers in a closed box with consideration of nonlinear mechanical resistance. Journal of the Acoustical Society of America, 2017, 141, 1144-1149.	1.1	3
60	Preface to the special issue on advanced preparation of tungsten-related materials and their applications. Tungsten, 2020, 2, 335-336.	4.8	2
61	Effects of a near-field rigid sphere scatterer on the performance of linear microphone array beamformers. Journal of the Acoustical Society of America, 2016, 140, 924-935.	1.1	1
62	Unraveling structure evolution failure mechanism in MoS2 anode for improving lithium storage stability. Journal of Materials Science and Technology, 2022, 128, 245-253.	10.7	1
63	RÃ¼cktitelbild: Heterocyclic Conjugated Polymer Nanoarchitectonics with Synergistic Redoxâ€Active Sites for Highâ€Performance Aluminium Organic Batteries (Angew. Chem. 25/2022). Angewandte Chemie, 2022, 134, .	2.0	0