

Kai Yuan

List of Publications by Citations

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

59
papers

2,269
citations

26
h-index

46
g-index

62
ext. papers

3,060
ext. citations

10.5
avg, IF

5.37
L-index

#	Paper	IF	Citations
59	Boosting Oxygen Reduction of Single Iron Active Sites via Geometric and Electronic Engineering: Nitrogen and Phosphorus Dual Coordination. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2404-2412	16.4	317
58	Synergetic Contribution of Boron and Fe _{Nx} Species in Porous Carbons toward Efficient Electrocatalysts for Oxygen Reduction Reaction. <i>ACS Energy Letters</i> , 2018 , 3, 252-260	20.1	184
57	When Al-Doped Cobalt Sulfide Nanosheets Meet Nickel Nanotube Arrays: A Highly Efficient and Stable Cathode for Asymmetric Supercapacitors. <i>ACS Nano</i> , 2018 , 12, 3030-3041	16.7	148
56	Nanofibrous and Graphene-Templated Conjugated Microporous Polymer Materials for Flexible Chemosensors and Supercapacitors. <i>Chemistry of Materials</i> , 2015 , 27, 7403-7411	9.6	138
55	Straightforward Generation of Pillared, Microporous Graphene Frameworks for Use in Supercapacitors. <i>Advanced Materials</i> , 2015 , 27, 6714-21	24	117
54	Two-Dimensional Core-Shelled Porous Hybrids as Highly Efficient Catalysts for the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 6858-63	16.4	111
53	Engineering the Morphology of Carbon Materials: 2D Porous Carbon Nanosheets for High-Performance Supercapacitors. <i>ChemElectroChem</i> , 2016 , 3, 822-828	4.3	75
52	Simultaneously Integrating Single Atomic Cobalt Sites and Co S Nanoparticles into Hollow Carbon Nanotubes as Trifunctional Electrocatalysts for Zn-Air Batteries to Drive Water Splitting. <i>Small</i> , 2020 , 16, e1906735	11	59
51	A General Electrodeposition Strategy for Fabricating Ultrathin Nickel Cobalt Phosphate Nanosheets with Ultrahigh Capacity and Rate Performance. <i>ACS Nano</i> , 2020 , 14, 14201-14211	16.7	50
50	Nitrogen-doped porous carbon/graphene nanosheets derived from two-dimensional conjugated microporous polymer sandwiches with promising capacitive performance. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 278-285	7.8	49
49	Coaxial electrospun free-standing and mechanically stable hierarchical porous carbon nanofiber membranes for flexible supercapacitors. <i>Carbon</i> , 2020 , 160, 80-87	10.4	49
48	Hierarchical nickel cobalt sulfide nanosheet on MOF-derived carbon nanowall arrays with remarkable supercapacitive performance. <i>Carbon</i> , 2019 , 147, 146-153	10.4	48
47	Nanostructured hybrid ZnO@CdS nanowalls grown in situ for inverted polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 1018-1027	7.1	47
46	Covalent Connection of Polyaniline with MoS ₂ Nanosheets toward Ultrahigh Rate Capability Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 11540-11549	8.3	43
45	CoO Supraparticle-Based Bubble Nanofiber and Bubble Nanosheet with Remarkable Electrochemical Performance. <i>Advanced Science</i> , 2019 , 6, 1900107	13.6	43
44	In situ nanoarchitecturing and active-site engineering toward highly efficient carbonaceous electrocatalysts. <i>Nano Energy</i> , 2019 , 59, 207-215	17.1	42
43	Photovoltaic performance enhancement of P3HT/PCBM solar cells driven by incorporation of conjugated liquid crystalline rod-coil block copolymers. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 3835-3845	7.1	42

42	Hierarchical Nanosheets/Walls Structured Carbon-Coated Porous Vanadium Nitride Anodes Enable Wide-Voltage-Window Aqueous Asymmetric Supercapacitors with High Energy Density. <i>Advanced Science</i> , 2019 , 6, 1900550	13.6	40
41	Hierarchical 1D nanofiber-2D nanosheet-shaped self-standing membranes for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9161-9171	13	39
40	Safe and flexible ion gel based composite electrolyte for lithium batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 14132-14140	13	38
39	Engineering efficient bifunctional electrocatalysts for rechargeable zinc-air batteries by confining Fe ₃ O ₄ /Ni nanoalloys in nitrogen-doped carbon nanotube@nanosheet frameworks. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 25919-25930	13	32
38	Cross-linked graphene/carbon nanotube networks with polydopamine glue for flexible supercapacitors. <i>Composites Communications</i> , 2018 , 10, 73-80	6.7	31
37	A generalized one-step in situ formation of metal sulfide/reduced graphene oxide nanosheets toward high-performance supercapacitors. <i>Science China Materials</i> , 2020 , 63, 1898-1909	7.1	30
36	FeO-Encapsulating N-doped porous carbon materials as efficient oxygen reduction reaction electrocatalysts for Zn-air batteries. <i>Chemical Communications</i> , 2019 , 55, 7538-7541	5.8	29
35	Nitrogen-Doped Hierarchically Porous Carbon Materials with Enhanced Performance for Supercapacitor. <i>ChemElectroChem</i> , 2018 , 5, 515-522	4.3	28
34	Fine dispersion and self-assembly of ZnO nanoparticles driven by P3HT-b-PEO diblocks for improvement of hybrid solar cells performance. <i>New Journal of Chemistry</i> , 2013 , 37, 195-203	3.6	27
33	2D Heterostructures Derived from MoS ₂ -Templated, Cobalt-Containing Conjugated Microporous Polymer Sandwiches for the Oxygen Reduction Reaction and Electrochemical Energy Storage. <i>ChemElectroChem</i> , 2017 , 4, 709-715	4.3	26
32	Recent Developments of Microenvironment Engineering of Single-Atom Catalysts for Oxygen Reduction toward Desired Activity and Selectivity. <i>Advanced Functional Materials</i> , 2021 , 31, 2103857	15.6	25
31	Optical engineering of uniformly decorated graphene oxide nanoflakes via in situ growth of silver nanoparticles with enhanced plasmonic resonance. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 21069-77	9.5	22
30	Regulating Voltage Window and Energy Density of Aqueous Asymmetric Supercapacitors by Pinecone-Like Hollow Fe ₂ O ₃ /MnO ₂ Nano-Heterostructure. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1901729	4.6	21
29	Construction of a hierarchical carbon coated Fe ₃ O ₄ nanorod anode for 2.6 V aqueous asymmetric supercapacitors with ultrahigh energy density. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 27313-27322	13	20
28	Two-Dimensional Core-Shell Porous Hybrids as Highly Efficient Catalysts for the Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , 2016 , 128, 6972-6977	3.6	19
27	Nanostructuring compatibilizers of block copolymers for organic photovoltaics. <i>Polymer International</i> , 2014 , 63, 593-606	3.3	17
26	Covalently Sandwiching MXene by Conjugated Microporous Polymers with Excellent Stability for Supercapacitors. <i>Small Methods</i> , 2020 , 4, 2000434	12.8	17
25	Versatile electron-collecting interfacial layer by in situ growth of silver nanoparticles in nonconjugated polyelectrolyte aqueous solution for polymer solar cells. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 11563-72	3.4	16

24	Coupling of EDLC and the reversible redox reaction: oxygen functionalized porous carbon nanosheets for zinc-ion hybrid supercapacitors. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 15404-15414	13	16
23	Wide Voltage Aqueous Asymmetric Supercapacitors: Advances, Strategies, and Challenges. <i>Advanced Functional Materials</i> , 2108107	15.6	15
22	Facile and Scalable Fabrication of Nitrogen-Doped Porous Carbon Nanosheets for Capacitive Energy Storage with Ultrahigh Energy Density. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20029-20036	9.5	14
21	A facile in situ approach to ion gel based polymer electrolytes for flexible lithium batteries. <i>RSC Advances</i> , 2017 , 7, 54391-54398	3.7	14
20	Optimizing Microenvironment of Asymmetric N,S-Coordinated Single-Atom Fe via Axial Fifth Coordination toward Efficient Oxygen Electroreduction. <i>Small</i> , 2021 , e2105387	11	14
19	Manipulating the Interlayer Spacing of 3D MXenes with Improved Stability and Zinc-Ion Storage Capability. <i>Advanced Functional Materials</i> , 2109524	15.6	14
18	Pyrolysis-free polymer-based oxygen electrocatalysts. <i>Energy and Environmental Science</i> , 2021 , 14, 2789-2808	3.9	14
17	Minimization of ion transport resistance: diblock copolymer micelle derived nitrogen-doped hierarchically porous carbon spheres for superior rate and power Zn-ion capacitors. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 8435-8443	13	14
16	Understanding the mechanism of poly(3-hexylthiophene)-b-poly(4-vinylpyridine) as a nanostructuring compatibilizer for improving the performance of poly(3-hexylthiophene)/ZnO-based hybrid solar cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 10881	13	12
15	Performance enhancement of bulk heterojunction solar cells with direct growth of CdS-cluster-decorated graphene nanosheets. <i>Chemistry - A European Journal</i> , 2014 , 20, 6010-8	4.8	11
14	Direct anisotropic growth of CdS nanocrystals in thermotropic liquid crystal templates for heterojunction optoelectronics. <i>Chemistry - A European Journal</i> , 2014 , 20, 11488-95	4.8	10
13	Molecular crowding agents engineered to make bioinspired electrolytes for high-voltage aqueous supercapacitors. <i>EScience</i> , 2021 , 1, 83-83		9
12	Fast assembly of MXene hydrogels by interfacial electrostatic interaction for supercapacitors. <i>Chemical Communications</i> , 2021 , 57, 10731-10734	5.8	7
11	In Situ Photocatalytically Heterostructured ZnO-Ag Nanoparticle Composites as Effective Cathode-Modifying Layers for Air-Processed Polymer Solar Cells. <i>Chemistry - A European Journal</i> , 2015 , 21, 11899-906	4.8	6
10	Molecular Control of Carbon-Based Oxygen Reduction Electrocatalysts through Metal Macrocyclic Complexes Functionalization. <i>Advanced Energy Materials</i> , 2021 , 11, 2100866	21.8	6
9	In situ growth nanocomposites composed of rodlike ZnO nanocrystals arranged by nanoparticles in a self-assembling diblock copolymer for heterojunction optoelectronics. <i>Journal of Materials Chemistry</i> , 2012 ,		5
8	Simultaneously Integrate Iron Single Atom and Nanocluster Triggered Tandem Effect for Boosting Oxygen Electroreduction.. <i>Small</i> , 2022 , e2107225	11	5
7	Enabling 2.4-V aqueous supercapacitors through the rational design of an integrated electrode of hollow vanadium trioxide/carbon nanospheres. <i>Science China Materials</i> , 2021 , 64, 2163-2172	7.1	4

6	Flexible and Wearable Solar Cells and Supercapacitors 2020 , 87-129		3
5	Deciphering the Precursor-Performance Relationship of Single-Atom Iron Oxygen Electroreduction Catalysts via Isomer Engineering.. <i>Small</i> , 2022 , e2106122	11	3
4	Enriching redox active sites by interconnected nanowalls-like nickel cobalt phospho-sulfide nanosheets for high performance supercapacitors. <i>Chinese Chemical Letters</i> , 2021 ,	8.1	3
3	From Crystalline to Partially Amorphous: A Facile Strategy toward Sulfur Vacancy-Enriched CoNi ₂ S ₄ Nanosheets with Improved Supercapacitor Performance. <i>Advanced Sustainable Systems</i> , 2022 , 6, 2100414	5.9	2
2	Zn-Air Batteries: Simultaneously Integrating Single Atomic Cobalt Sites and Co ₉ S ₈ Nanoparticles into Hollow Carbon Nanotubes as Trifunctional Electrocatalysts for Zn-Air Batteries to Drive Water Splitting (Small 10/2020). <i>Small</i> , 2020 , 16, 2070053	11	1
1	Iron-based nanocomposites implanting in N, P Co-doped carbon nanosheets as efficient oxygen reduction electrocatalysts for Zn-Air batteries. <i>Composites Communications</i> , 2021 , 100994	6.7	1