

Xiaodong Zhuang

List of Publications by Year in Descending Order

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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.

110
papers

13,350
citations

53
h-index

115
g-index

117
ext. papers

15,603
ext. citations

13.6
avg, IF

6.83
L-index

#	Paper	IF	Citations
110	N-confused porphyrin-based conjugated microporous polymers.. <i>Chemical Communications</i> , 2022 ,	5.8	1
109	Inkjet Printed Disposable High-Rate On-Paper Microsupercapacitors. <i>Advanced Functional Materials</i> , 2022 , 32, 2108773	15.6	8
108	Simultaneously Integrate Iron Single Atom and Nanocluster Triggered Tandem Effect for Boosting Oxygen Electroreduction.. <i>Small</i> , 2022 , e2107225	11	5
107	Porphyritic conjugated microporous polymer anode for Li-ion batteries. <i>Journal of Power Sources</i> , 2022 , 531, 231340	8.9	1
106	Copper-involved highly efficient oxygen reduction reaction in both alkaline and acidic media. <i>Chemical Engineering Journal</i> , 2022 , 437, 135377	14.7	2
105	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
104	Perovskite oxide and polyazuleneBased heterostructure for high performance supercapacitors. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 51198	2.9	4
103	Carbon nanosheets supporting Ni ₃ S ₂ single-atom sites for efficient electrocatalytic CO ₂ reduction. <i>Carbon</i> , 2021 , 178, 488-496	10.4	16
102	Self-Assembly Approach Towards MoS ₂ -Embedded Hierarchical Porous Carbons for Enhanced Electrocatalytic Hydrogen Evolution. <i>Chemistry - A European Journal</i> , 2021 , 27, 2155-2164	4.8	1
101	The philosophy of carbon: meso-entropy materials. <i>Faraday Discussions</i> , 2021 , 227, 80-90	3.6	8
100	Topological defect-containing Fe/N co-doped mesoporous carbon nanosheets as novel electrocatalysts for the oxygen reduction reaction and Zn-air batteries. <i>Nanoscale</i> , 2021 , 13, 13249-13257	7.7	1
99	Facile fabrication of graphene-based high-performance microsupercapacitors operating at a high temperature of 150 °C. <i>Nanoscale Advances</i> , 2021 , 3, 4674-4679	5.1	1
98	Regulating the Spin State of Nickel in Molecular Catalysts for Boosting Carbon Dioxide Reduction. <i>ACS Applied Energy Materials</i> , 2021 , 4, 2891-2898	6.1	5
97	B/N-Enriched Semi-Conductive Polymer Film for Micro-Supercapacitors with AC Line-Filtering Performance. <i>Langmuir</i> , 2021 , 37, 2523-2531	4	15
96	Rational Control of Topological Defects in Porous Carbon for High-Efficiency Carbon Dioxide Conversion. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100051	4.6	3
95	High-entropy carbons: From high-entropy aromatic species to single-atom catalysts for electrocatalysis. <i>Chemical Engineering Journal</i> , 2021 , 426, 131320	14.7	6
94	Atomic Ni and Cu co-anchored 3D nanoporous graphene as an efficient oxygen reduction electrocatalyst for zinc-air batteries. <i>Nanoscale</i> , 2021 , 13, 10862-10870	7.7	6

93	Supercapacitors with alternating current line-filtering performance. <i>BMC Materials</i> , 2020 , 2,	6.7	25
92	Platinum Atoms and Nanoparticles Embedded Porous Carbons for Hydrogen Evolution Reaction. <i>Materials</i> , 2020 , 13,	3.5	2
91	2D Porous Polymers with sp ² -Carbon Connections and Sole sp ² -Carbon Skeletons. <i>Advanced Functional Materials</i> , 2020 , 30, 2000857	15.6	21
90	Interfacial Approach toward Benzene-Bridged Polypyrrole FilmBased Micro-Supercapacitors with Ultrahigh Volumetric Power Density. <i>Advanced Functional Materials</i> , 2020 , 30, 1908243	15.6	45
89	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
88	Ionic Polyimide Derived Porous Carbon Nanosheets as High-Efficiency Oxygen Reduction Catalysts for Zn-Air Batteries. <i>Chemistry - A European Journal</i> , 2020 , 26, 6525-6534	4.8	8
87	A Novel Heterostructure Based on RuMo Nanoalloys and N-doped Carbon as an Efficient Electrocatalyst for the Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2020 , 32, e2005433	24	62
86	Azulene-Based Molecules, Polymers, and Frameworks for Optoelectronic and Energy Applications. <i>Small Methods</i> , 2020 , 4, 2000628	12.8	21
85	Iron clusters boosted performance in electrocatalytic carbon dioxide conversion. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 21661-21667	13	6
84	High-index faceted binary-metal selenide nanosheet arrays as efficient 3D electrodes for alkaline hydrogen evolution. <i>Nanoscale</i> , 2019 , 11, 17571-17578	7.7	19
83	Atomic Ni Anchored Covalent Triazine Framework as High Efficient Electrocatalyst for Carbon Dioxide Conversion. <i>Advanced Functional Materials</i> , 2019 , 29, 1806884	15.6	139
82	The art of two-dimensional soft nanomaterials. <i>Science China Chemistry</i> , 2019 , 62, 1145-1193	7.9	49
81	Charge Transfer Salt and Graphene Heterostructure-Based Micro-Supercapacitors with Alternating Current Line-Filtering Performance. <i>Small</i> , 2019 , 15, e1901494	11	50
80	A room-temperature interfacial approach towards iron/nitrogen co-doped fibrous porous carbons as electrocatalysts for the oxygen reduction reaction and Zn-Air batteries. <i>Nanoscale</i> , 2019 , 11, 10257-10265	7.7	26
79	Viologen-inspired functional materials: synthetic strategies and applications. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 23337-23360	13	87
78	Atomically dispersed nickel-nitrogen-sulfur species anchored on porous carbon nanosheets for efficient water oxidation. <i>Nature Communications</i> , 2019 , 10, 1392	17.4	280
77	Vacancy modification of Prussian-blue nano-thin films for high energy-density micro-supercapacitors with ultralow RC time constant. <i>Nano Energy</i> , 2019 , 60, 8-16	17.1	19
76	In situ nanoarchitecturing and active-site engineering toward highly efficient carbonaceous electrocatalysts. <i>Nano Energy</i> , 2019 , 59, 207-215	17.1	42

75	Efficient alkaline hydrogen evolution on atomically dispersed Ni _{Nx} Species anchored porous carbon with embedded Ni nanoparticles by accelerating water dissociation kinetics. <i>Energy and Environmental Science</i> , 2019 , 12, 149-156	35.4	299
74	Sulfur-anchored azulene as a cathode material for Li-S batteries. <i>Chemical Communications</i> , 2019 , 55, 9047-9050	5.8	18
73	Self-Assembly of Integrated Tubular Microsupercapacitors with Improved Electrochemical Performance and Self-Protective Function. <i>ACS Nano</i> , 2019 , 13, 8067-8075	16.7	41
72	Nano-sandwiched metal hexacyanoferrate/graphene hybrid thin films for in-plane asymmetric micro-supercapacitors with ultrahigh energy density. <i>Materials Horizons</i> , 2019 , 6, 1041-1049	14.4	37
71	Porous carbon nanosheets: Synthetic strategies and electrochemical energy related applications. <i>Nano Today</i> , 2019 , 24, 103-119	17.9	241
70	Zn-Ion Hybrid Micro-Supercapacitors with Ultrahigh Areal Energy Density and Long-Term Durability. <i>Advanced Materials</i> , 2019 , 31, e1806005	24	168
69	Viologen-Hypercrosslinked Ionic Porous Polymer Films as Active Layers for Electronic and Energy Storage Devices. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701679	4.6	15
68	Thermoswitchable on-chip microsupercapacitors: one potential self-protection solution for electronic devices. <i>Energy and Environmental Science</i> , 2018 , 11, 1717-1722	35.4	55
67	Rational synthesis of N/S-doped porous carbons as high efficient electrocatalysts for oxygen reduction reaction and Zn-Air batteries. <i>Electrochimica Acta</i> , 2018 , 266, 17-26	6.7	39
66	Accelerated Hydrogen Evolution Kinetics on NiFe-Layered Double Hydroxide Electrocatalysts by Tailoring Water Dissociation Active Sites. <i>Advanced Materials</i> , 2018 , 30, 1706279	24	390
65	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
64	Polymer nanosheets derived porous carbon nanosheets as high efficient electrocatalysts for oxygen reduction reaction. <i>Journal of Colloid and Interface Science</i> , 2018 , 516, 9-15	9.3	10
63	A Dual-Stimuli-Responsive Sodium-Bromine Battery with Ultrahigh Energy Density. <i>Advanced Materials</i> , 2018 , 30, e1800028	24	46
62	S-enriched porous polymer derived N-doped porous carbons for electrochemical energy storage and conversion. <i>Frontiers of Chemical Science and Engineering</i> , 2018 , 12, 346-357	4.5	5
61	Vertically Aligned MoS ₂ Nanosheets Patterned on Electrochemically Exfoliated Graphene for High-Performance Lithium and Sodium Storage. <i>Advanced Energy Materials</i> , 2018 , 8, 1702254	21.8	234
60	Viologen-bridged polyaniline based multifunctional heterofilms for all-solid-state supercapacitors and memory devices. <i>European Polymer Journal</i> , 2018 , 98, 125-136	5.2	17
59	Cobaloxime anchored MoS ₂ nanosheets as electrocatalysts for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 138-144	13	37
58	Two-Dimensional Porous Polymers: From Sandwich-like Structure to Layered Skeleton. <i>Accounts of Chemical Research</i> , 2018 , 51, 3191-3202	24.3	88

57	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
56	BODIPY-based conjugated polymer covalently grafted reduced graphene oxide for flexible nonvolatile memory devices. <i>Carbon</i> , 2017 , 116, 713-721	10.4	23
55	Coordination Polymer Framework Based On-Chip Micro-Supercapacitors with AC Line-Filtering Performance. <i>Angewandte Chemie</i> , 2017 , 129, 3978-3982	3.6	21
54	Coordination Polymer Framework Based On-Chip Micro-Supercapacitors with AC Line-Filtering Performance. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 3920-3924	16.4	110
53	Recent Advances in Earth-Abundant Heterogeneous Electrocatalysts for Photoelectrochemical Water Splitting. <i>Small Methods</i> , 2017 , 1, 1700090	12.8	85
52	An interfacial engineering approach towards two-dimensional porous carbon hybrids for high performance energy storage and conversion. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 1567-1574	13	20
51	Efficient hydrogen production on MoNi electrocatalysts with fast water dissociation kinetics. <i>Nature Communications</i> , 2017 , 8, 15437	17.4	583
50	Integrated Hierarchical Cobalt Sulfide/Nickel Selenide Hybrid Nanosheets as an Efficient Three-dimensional Electrode for Electrochemical and Photoelectrochemical Water Splitting. <i>Nano Letters</i> , 2017 , 17, 4202-4209	11.5	216
49	Molybdenum Carbide-Embedded Nitrogen-Doped Porous Carbon Nanosheets as Electrocatalysts for Water Splitting in Alkaline Media. <i>ACS Nano</i> , 2017 , 11, 3933-3942	16.7	302
48	Stimulus-Responsive Micro-Supercapacitors with Ultrahigh Energy Density and Reversible Electrochromic Window. <i>Advanced Materials</i> , 2017 , 29, 1604491	24	122
47	Dual-Graphene Rechargeable Sodium Battery. <i>Small</i> , 2017 , 13, 1702449	11	53
46	Ternary Porous Cobalt Phosphoselenide Nanosheets: An Efficient Electrocatalyst for Electrocatalytic and Photoelectrochemical Water Splitting. <i>Advanced Materials</i> , 2017 , 29, 1701589	24	192
45	Toward Activity Origin of Electrocatalytic Hydrogen Evolution Reaction on Carbon-Rich Crystalline Coordination Polymers. <i>Small</i> , 2017 , 13, 1700783	11	13
44	Viologen-based conjugated ionic polymer for nonvolatile rewritable memory device. <i>European Polymer Journal</i> , 2017 , 94, 222-229	5.2	11
43	Toward a molecular design of porous carbon materials. <i>Materials Today</i> , 2017 , 20, 592-610	21.8	146
42	Scalable Fabrication and Integration of Graphene Microsupercapacitors through Full Inkjet Printing. <i>ACS Nano</i> , 2017 , 11, 8249-8256	16.7	204
41	Graphene-coupled nitrogen-enriched porous carbon nanosheets for energy storage. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16732-16739	13	28
40	Flexible All-Solid-State Supercapacitors with High Volumetric Capacitances Boosted by Solution Processable MXene and Electrochemically Exfoliated Graphene. <i>Advanced Energy Materials</i> , 2017 , 7, 1601847	21.8	298

39	Efficient Electrochemical and Photoelectrochemical Water Splitting by a 3D Nanostructured Carbon Supported on Flexible Exfoliated Graphene Foil. <i>Advanced Materials</i> , 2017 , 29, 1604480	24	139
38	Graphene and its derivatives for laser protection. <i>Progress in Materials Science</i> , 2016 , 84, 118-157	42.2	85
37	Two-Dimensional Mesoscale-Ordered Conducting Polymers. <i>Angewandte Chemie</i> , 2016 , 128, 12704-12709	9.6	13
36	Engineering water dissociation sites in MoS ₂ nanosheets for accelerated electrocatalytic hydrogen production. <i>Energy and Environmental Science</i> , 2016 , 9, 2789-2793	35.4	386
35	Interface Engineering of MoS ₂ /Ni ₃ S ₂ Heterostructures for Highly Enhanced Electrochemical Overall-Water-Splitting Activity. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 6702-7	16.4	896
34	Nitrogen-Doped Porous Carbon Superstructures Derived from Hierarchical Assembly of Polyimide Nanosheets. <i>Advanced Materials</i> , 2016 , 28, 1981-7	24	313
33	Interface Engineering of MoS ₂ /Ni ₃ S ₂ Heterostructures for Highly Enhanced Electrochemical Overall-Water-Splitting Activity. <i>Angewandte Chemie</i> , 2016 , 128, 6814-6819	3.6	315
32	Vertically oriented cobalt selenide/NiFe layered-double-hydroxide nanosheets supported on exfoliated graphene foil: an efficient 3D electrode for overall water splitting. <i>Energy and Environmental Science</i> , 2016 , 9, 478-483	35.4	646
31	Sulfur-Enriched Conjugated Polymer Nanosheet Derived Sulfur and Nitrogen co-Doped Porous Carbon Nanosheets as Electrocatalysts for Oxygen Reduction Reaction and Zinc-Air Battery. <i>Advanced Functional Materials</i> , 2016 , 26, 5893-5902	15.6	189
30	Quantitative Control of Pore Size of Mesoporous Carbon Nanospheres through the Self-Assembly of Diblock Copolymer Micelles in Solution. <i>Small</i> , 2016 , 12, 3155-63	11	92
29	Two-Dimensional Core-Shell Porous Hybrids as Highly Efficient Catalysts for the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 6858-63	16.4	111
28	In Situ Synthesis and Characterization of Poly(aryleneethynylene)-Grafted Reduced Graphene Oxide. <i>Chemistry - A European Journal</i> , 2016 , 22, 2247-52	4.8	11
27	Boron, nitrogen, and phosphorous ternary doped graphene aerogel with hierarchically porous structures as highly efficient electrocatalysts for oxygen reduction reaction. <i>New Journal of Chemistry</i> , 2016 , 40, 6022-6029	3.6	51
26	A two-dimensional conjugated polymer framework with fully sp ² -bonded carbon skeleton. <i>Polymer Chemistry</i> , 2016 , 7, 4176-4181	4.9	222
25	Two-Dimensional Mesoscale-Ordered Conducting Polymers. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 12516-21	16.4	74
24	Highly Efficient Electrocatalysts for Oxygen Reduction Reaction Based on 1D Ternary Doped Porous Carbons Derived from Carbon Nanotube Directed Conjugated Microporous Polymers. <i>Advanced Functional Materials</i> , 2016 , 26, 8255-8265	15.6	55
23	Dual-Template Synthesis of 2D Mesoporous Polypyrrole Nanosheets with Controlled Pore Size. <i>Advanced Materials</i> , 2016 , 28, 8365-8370	24	119
22	Hypercrosslinked porous polymer nanosheets: 2D RAFT agent directed emulsion polymerization for multifunctional applications. <i>Polymer Chemistry</i> , 2015 , 6, 7171-7178	4.9	37

21	Two-dimensional soft nanomaterials: a fascinating world of materials. <i>Advanced Materials</i> , 2015 , 27, 403-427	374
20	Conjugated microporous polymers with dimensionality-controlled heterostructures for green energy devices. <i>Advanced Materials</i> , 2015 , 27, 3789-96	24 176
19	Metal-Phosphide-Containing Porous Carbons Derived from an Ionic-Polymer Framework and Applied as Highly Efficient Electrochemical Catalysts for Water Splitting. <i>Advanced Functional Materials</i> , 2015 , 25, 3899-3906	15.6 159
18	Nitrogen-Doped Carbon Nanosheets with Size-Defined Mesopores as Highly Efficient Metal-Free Catalyst for the Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , 2014 , 126, 1596-1600	3.6 208
17	Graphene coupled Schiff-base porous polymers: towards nitrogen-enriched porous carbon nanosheets with ultrahigh electrochemical capacity. <i>Advanced Materials</i> , 2014 , 26, 3081-6	24 207
16	A solution-processable polymer-grafted graphene oxide derivative for nonvolatile rewritable memory. <i>Polymer Chemistry</i> , 2014 , 5, 2010-2017	4.9 32
15	Hierarchically porous carbons with optimized nitrogen doping as highly active electrocatalysts for oxygen reduction. <i>Nature Communications</i> , 2014 , 5, 4973	17.4 808
14	2D polyacrylonitrile brush derived nitrogen-doped carbon nanosheets for high-performance electrocatalysts in oxygen reduction reaction. <i>Polymer Chemistry</i> , 2014 , 5, 2057-2064	4.9 49
13	Polyaniline nanosheet derived B/N co-doped carbon nanosheets as efficient metal-free catalysts for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 7742	13 118
12	Nitrogen-doped carbon nanosheets with size-defined mesopores as highly efficient metal-free catalyst for the oxygen reduction reaction. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 1570-4	16.4 428
11	Two-dimensional nanostructures by the assembly of n-type tetraazaanthracene-based conjugated molecules. <i>ChemPhysChem</i> , 2013 , 14, 2954-60	3.2 6
10	Two-dimensional sandwich-type, graphene-based conjugated microporous polymers. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 9668-72	16.4 194
9	Low-temperature synthesis of nitrogen/sulfur co-doped three-dimensional graphene frameworks as efficient metal-free electrocatalyst for oxygen reduction reaction. <i>Carbon</i> , 2013 , 62, 296-301	10.4 374
8	Two-Dimensional Sandwich-Type, Graphene-Based Conjugated Microporous Polymers. <i>Angewandte Chemie</i> , 2013 , 125, 9850-9854	3.6 43
7	Graphene and its derivatives: switching ON and OFF. <i>Chemical Society Reviews</i> , 2012 , 41, 4688-707	58.5 219
6	Charm-bracelet-type poly(N-vinylcarbazole) functionalized with reduced graphene oxide for broadband optical limiting. <i>Chemistry - A European Journal</i> , 2011 , 17, 780-5	4.8 63
5	Poly(N-vinylcarbazole) chemically modified graphene oxide. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 2642-2649	2.5 83
4	Bistable electrical switching and electronic memory effect in a solution-processable graphene oxide-donor polymer complex. <i>Applied Physics Letters</i> , 2009 , 95, 253301	3.4 106

3	Enhancing charge separation in conjugated microporous polymers for efficient photocatalytic hydrogen evolution. <i>Materials Advances</i> ,	3:3	
2	Electrochemical reduction of carbon dioxide with nearly 100% carbon monoxide faradaic efficiency from vacancy-stabilized single-atom active sites. <i>Journal of Materials Chemistry A</i> ,	13	6
1	Ultrathin PTAA interlayer in conjunction with azulene derivatives for the fabrication of inverted perovskite solar cells. <i>Journal of Materials Chemistry C</i> ,	7:1	5