Yaoxin Hu

List of Publications by Year
in descending order

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Version: 2024-02-01

37 papers	3,394 citations	257450 24 h-index	345221 36 g-index
37 all docs	37 docs citations	37 times ranked	4881 citing authors

#	Article	IF	Citations
1	Nitrogenâ€Doped Nanoporous Carbon/Graphene Nanoâ€Sandwiches: Synthesis and Application for Efficient Oxygen Reduction. Advanced Functional Materials, 2015, 25, 5768-5777.	14.9	384
2	Ultrafast selective transport of alkali metal ions in metal organic frameworks with subnanometer pores. Science Advances, 2018, 4, eaaq0066.	10.3	368
3	Metalâ€“organic framework membranes fabricated via reactive seeding. Chemical Communications, 2011, 47, 737-739.	4.1	350
4	Zeolitic Imidazolate Framework/Graphene Oxide Hybrid Nanosheets as Seeds for the Growth of Ultrathin Molecular Sieving Membranes. Angewandte Chemie - International Edition, 2016, 55, 2048-2052.	13.8	281
5	Efficient metal ion sieving in rectifying subnanochannels enabled by metalâ€“organic frameworks. Nature Materials, 2020, 19, 767-774.	27.5	275
6	A Versatile Ironâ€“Tanninâ€Framework Ink Coating Strategy to Fabricate Biomassâ€Derived Iron Carbide/Feâ€Nâ€Carbon Catalysts for Efficient Oxygen Reduction. Angewandte Chemie - International Edition, 2016, 55, 1355-1359.	13.8	216
7	Hydrothermal Synthesis of Metalâ€“Polyphenol Coordination Crystals and Their Derived Metal/Nâ€doped Carbon Composites for Oxygen Electrocatalysis. Angewandte Chemie - International Edition, 2016, 55, 12470-12474.	13.8	178
8	Graphene oxide/coreâ€“shell structured metalâ€“organic framework nano-sandwiches and their derived cobalt/N-doped carbon nanosheets for oxygen reduction reactions. Journal of Materials Chemistry A, 2017, 5, 10182-10189.	10.3	163
9	A graphene-directed assembly route to hierarchically porous Coâ€“N_x/C catalysts for high-performance oxygen reduction. Journal of Materials Chemistry A, 2015, 3, 16867-16873.	10.3	151
10	Incorporation of Homochirality into a Zeolitic Imidazolate Framework Membrane for Efficient Chiral Separation. Angewandte Chemie - International Edition, 2018, 57, 17130-17134.	13.8	113
11	Aqueous Phase Synthesis of ZIF-8 Membrane with Controllable Location on an Asymmetrically Porous Polymer Substrate. ACS Applied Materials & Interfaces, 2016, 8, 6236-6244.	8.0	95
12	The enhanced hydrogen separation performance of mixed matrix membranes by incorporation of two-dimensional ZIF-L into polyimide containing hydroxyl group. Journal of Membrane Science, 2018, 549, 260-266.	8.2	82
13	Zeolitic Imidazolate Framework/Graphene Oxide Hybrid Nanosheets as Seeds for the Growth of Ultrathin Molecular Sieving Membranes. Angewandte Chemie, 2016, 128, 2088-2092.	2.0	70
14	Non-swelling graphene oxide-polymer nanocomposite membrane for reverse osmosis desalination. Journal of Membrane Science, 2018, 562, 47-55.	8.2	64
15	A Versatile Ironâ€“Tanninâ€Framework Ink Coating Strategy to Fabricate Biomassâ€Derived Iron Carbide/Feâ€Nâ€Carbon Catalysts for Efficient Oxygen Reduction. Angewandte Chemie, 2016, 128, 1377-1381.	2.0	59
16	Dual function filtration and catalytic breakdown of organic pollutants in wastewater using ozonation with titania and alumina membranes. Journal of Membrane Science, 2011, 378, 61-72.	8.2	54
17	Porous diffusion dialysis membranes for rapid acid recovery. Journal of Membrane Science, 2016, 502, 76-83.	8.2	52
18	Thermoresponsive Amphoteric Metalâ€“Organic Frameworks for Efficient and Reversible Adsorption of Multiple Salts from Water. Advanced Materials, 2018, 30, e1802767.	21.0	51

#	Article	IF	Citations
19	Ultrafast water evaporation through graphene membranes with subnanometer pores for desalination. Journal of Membrane Science, 2021, 621, 118934.	8.2	45
20	Hydrothermal Synthesis of Metalâ€“Polyphenol Coordination Crystals and Their Derived Metal/Nâ€doped Carbon Composites for Oxygen Electrocatalysis. Angewandte Chemie, 2016, 128, 12658-12662.	2.0	42
21	Preparation of nanoporous graphene oxide by nanocrystal-masked etching: toward a nacre-mimetic metalâ€“organic framework molecular sieving membrane. Journal of Materials Chemistry A, 2017, 5, 16255-16262.	10.3	42
22	Multifunctional metal organic framework and carbon nanotube-modified filter for combined ultrafine dust capture and SO₂ dynamic adsorption. Environmental Science: Nano, 2018, 5, 3023-3031.	4.3	37
23	Incorporation of Homochirality into a Zeolitic Imidazolate Framework Membrane for Efficient Chiral Separation. Angewandte Chemie, 2018, 130, 17376-17380.	2.0	36
24	Carbon Nanotube Networks as Nanoscaffolds for Fabricating Ultrathin Carbon Molecular Sieve Membranes. ACS Applied Materials & Interfaces, 2018, 10, 20182-20188.	8.0	33
25	Synthesis of ZIF/CNT nanonecklaces and their derived cobalt nanoparticles/N-doped carbon catalysts for oxygen reduction reaction. Journal of Alloys and Compounds, 2020, 816, 152684.	5.5	24
26	Periodic oscillation of ion conduction of nanofluidic diodes using a chemical oscillator. Nanoscale, 2017, 9, 7297-7304.	5.6	20
27	Bilayer composites consisting of gold nanorods and titanium dioxide as highly sensitive and self-cleaning SERS substrates. Mikrochimica Acta, 2017, 184, 2805-2813.	5.0	19
28	Effective strategies to realize high-performance graphene-reinforced cement composites. Construction and Building Materials, 2022, 324, 126636.	7.2	19
29	A thermally reduced graphene oxide membrane interlayered with anin situsynthesized nanospacer for water desalination. Journal of Materials Chemistry A, 2020, 8, 25951-25958.	10.3	17
30	ZIF-derived nitrogen-doped carbon/3D graphene frameworks for all-solid-state supercapacitors. RSC Advances, 2016, 6, 76575-76581.	3.6	15
31	Combined TiO₂membrane filtration and ozonation for efficient water treatment to enhance the reuse of wastewater. Desalination and Water Treatment, 2011, 34, 57-62.	1.0	14
32	Electrocatalysts: Nitrogenâ€Doped Nanoporous Carbon/Graphene Nanoâ€Sandwiches: Synthesis and Application for Efficient Oxygen Reduction (Adv. Funct. Mater. 36/2015). Advanced Functional Materials, 2015, 25, 5876-5876.	14.9	9
33	Fouling and cleaning of polymer-entwined graphene oxide nanocomposite membrane for forward osmosis process. Separation Science and Technology, 2019, 54, 1376-1386.	2.5	6
34	Photo-switchable membranes constructed from graphene oxide/star-PDMS nanocomposites for gas permeation control. Journal of Materials Chemistry A, 2021, 9, 21167-21174.	10.3	6
35	Nitrogenâ€Rich, Wellâ€Dispersed Nanoporous Carbon Materials for Superâ€Efficient Oxygen Reduction Reaction. ChemElectroChem, 2019, 6, 1894-1900.	3.4	3
36	Water Desalination: Thermoresponsive Amphoteric Metal-Organic Frameworks for Efficient and Reversible Adsorption of Multiple Salts from Water (Adv. Mater. 34/2018). Advanced Materials, 2018, 30, 1870256.	21.0	1

#	Article	IF	Citations
37	MFI-type zeolite functional liquid phase sensor coated on the optical fiber end-face. Proceedings of SPIE, 2012, , .	0.8	0