

# Yuchao Wang

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

3,686  
citations

230014

27  
h-index

175968

55  
g-index

55  
all docs

55  
docs citations

55  
times ranked

4737  
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering solid-liquid-gas interfaces of single-atom cobalt catalyst for enhancing the robust stability of neutral Zn-air batteries under high current density. <i>Chemical Engineering Journal</i> , 2022, 433, 133685.	6.6	23
2	A reduced pressure-assisted vapor penetration of ionic liquid into the laminated graphene oxide membranes for efficient CO <sub>2</sub> separation. <i>Separation and Purification Technology</i> , 2022, 287, 120514.	3.9	10
3	Multifunctional reduced graphene oxide film as electrocatalysts and photothermal layer for broad spectrum solar-enhanced oxygen evolution reaction. <i>Materials Today Energy</i> , 2022, 25, 100966.	2.5	6
4	Pd/Mg(OH) <sub>2</sub> /MgO@ZrO <sub>2</sub> Nanocomposite Systems for Highly Efficient Suzuki-Miyaura Coupling Reaction at Room Temperature: Implications for Low-Carbon Green Organic Synthesis. <i>ACS Applied Nano Materials</i> , 2022, 5, 8059-8069.	2.4	3
5	Coupling solar-driven interfacial evaporation with forward osmosis for continuous water treatment. <i>Exploration</i> , 2022, 2, .	5.4	29
6	Origami-Based Bionic Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 4279-4289.	1.8	7
7	A Hierarchical-Structured Impeller with Engineered Pd Nanoparticles Catalyzing Suzuki Coupling Reactions for High-Purity Biphenyl. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 17429-17438.	4.0	16
8	MOF-Mediated Interfacial Polymerization to Fabricate Polyamide Membranes with a Homogeneous Nanoscale Striped Turing Structure for CO <sub>2</sub> /CH <sub>4</sub> Separation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 18380-18388.	4.0	26
9	Polyamide membrane with an ultrathin GO interlayer on macroporous substrate for minimizing internal concentration polarization in forward osmosis. <i>Chemical Engineering Journal</i> , 2021, 412, 128607.	6.6	57
10	Enhanced solar-driven evaporation process via f-MWCNTs/PVDF photothermal membrane for forward osmosis draw solution recovery. <i>Nanotechnology</i> , 2021, 32, 375703.	1.3	2
11	Discovery of Quantitative Electronic Structure-OER Activity Relationship in Metal-Organic Framework Electrocatalysts Using an Integrated Theoretical-Experimental Approach. <i>Advanced Functional Materials</i> , 2021, 31, 2102066.	7.8	114
12	Electronic structure engineering through Fe-doping CoP enables hydrogen evolution coupled with electro-Fenton. <i>Nano Energy</i> , 2021, 84, 105943.	8.2	64
13	Adjustable photothermal device induced by magnetic field for efficient solar-driven desalination. <i>EcoMat</i> , 2021, 3, e12139.	6.8	14
14	Bodipy-Containing Porous Microcapsules for Flow Heterogeneous Photocatalysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 38722-38731.	4.0	15
15	Advanced thin-film nanocomposite membranes embedded with organic-based nanomaterials for water and organic solvent purification: A review. <i>Separation and Purification Technology</i> , 2021, 269, 118719.	3.9	37
16	Controllable amorphization engineering on bimetallic metal-organic frameworks for ultrafast oxygen evolution reaction. <i>Chemical Engineering Journal</i> , 2021, 418, 129330.	6.6	51
17	Sandwich-like hierarchical porous dual-carbon catalyst with more accessible sites for boosting oxygen reduction reaction. <i>Materials Today Energy</i> , 2021, 21, 100809.	2.5	6
18	A facile and economic route assisted by trace tannic acid to construct a high-performance thin film composite NF membrane for desalination. <i>Environmental Science: Water Research and Technology</i> , 2021, 7, 956-968.	1.2	9

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19	Single Atom Catalysts for Fuel Cells and Rechargeable Batteries: Principles, Advances, and Opportunities. ACS Nano, 2021, 15, 210-239.	7.3	199
20	Bilayer rGO-Based Photothermal Evaporator for Efficient Solar-Driven Water Purification. Chemistry - A European Journal, 2021, 27, 17428-17436.	1.7	14
21	Designing Atomic Active Centers for Hydrogen Evolution Electrocatalysts. Angewandte Chemie - International Edition, 2020, 59, 20794-20812.	7.2	257
22	Microstructure regulation of polyamide nanocomposite membrane by functional mesoporous polymer for high-efficiency desalination. Journal of Membrane Science, 2020, 597, 117783.	4.1	41
23	Regulating the coordination structure of metal single atoms for efficient electrocatalytic CO <sub>2</sub> reduction. Energy and Environmental Science, 2020, 13, 4609-4624.	15.6	188
24	Preparation of ZrO <sub>2</sub> -Based Catalytic Fibers via the Assistance of Microfluidic Chips. Industrial & Engineering Chemistry Research, 2020, 59, 21592-21601.	1.8	3
25	Rational 3D Coiled Morphology for Efficient Solar-Driven Desalination. Environmental Science & Technology, 2020, 54, 16240-16248.	4.6	35
26	Multifunctional Nickel Sulfide Nanosheet Arrays for Solar-Intensified Oxygen Evolution Reaction. Small, 2020, 16, e2002550.	5.2	25
27	Engineering of Electronic States on Co <sub>3</sub> O <sub>4</sub> Ultrathin Nanosheets by Cation Substitution and Anion Vacancies for Oxygen Evolution Reaction. Small, 2020, 16, e2001571.	5.2	98
28	Atomic-scale engineering of chemical-vapor-deposition-grown 2D transition metal dichalcogenides for electrocatalysis. Energy and Environmental Science, 2020, 13, 1593-1616.	15.6	166
29	Wettable photothermal hollow fibers arrays for efficient solar-driven desalination under omnidirectional illumination without salt precipitation. Materials Today Energy, 2020, 16, 100391.	2.5	22
30	Design aktiver atomarer Zentren für HER-Elektrokatalysatoren. Angewandte Chemie, 2020, 132, 20978-20998.	1.6	18
31	Multifunctional perovskite oxide for efficient solar-driven evaporation and energy-saving regeneration. Nano Energy, 2020, 70, 104538.	8.2	32
32	Nanocomposite membranes embedded with dopamine-melanin nanospheres for enhanced interfacial compatibility and nanofiltration performance. Separation and Purification Technology, 2020, 242, 116816.	3.9	26
33	Solar-Intensified Ultrafiltration System Based on Porous Photothermal Membrane for Efficient Water Treatment. ACS Sustainable Chemistry and Engineering, 2019, 7, 4889-4896.	3.2	27
34	A GO-Induced Assembly Strategy To Repair MOF Nanosheet-Based Membrane for Efficient H <sub>2</sub> /CO <sub>2</sub> Separation. ACS Applied Materials & Interfaces, 2019, 11, 990-997.	4.0	63
35	A Facile and General Strategy to Deposit Polypyrrole on Various Substrates for Efficient Solar-Driven Evaporation. Advanced Sustainable Systems, 2019, 3, 1800108.	2.7	52
36	Improved light-harvesting and thermal management for efficient solar-driven water evaporation using 3D photothermal cones. Journal of Materials Chemistry A, 2018, 6, 9874-9881.	5.2	266

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37	A facile nanocomposite strategy to fabricate a rGO@MWCNT photothermal layer for efficient water evaporation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 963-971.	5.2	256
38	Efficient and Anisotropic Fog Harvesting on a Hybrid and Directional Surface. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600801.	1.9	58
39	Rational design of a bi-layered reduced graphene oxide film on polystyrene foam for solar-driven interfacial water evaporation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16212-16219.	5.2	259
40	Bio-inspired immobilization of metal oxides on monolithic microreactor for continuous Knoevenagel reaction. <i>Journal of Colloid and Interface Science</i> , 2016, 481, 100-106.	5.0	13
41	Preparing electrochemical active hierarchically porous carbons for detecting nitrite in drinkable water. <i>RSC Advances</i> , 2016, 6, 7302-7309.	1.7	12
42	Self-Floating Carbon Nanotube Membrane on Macroporous Silica Substrate for Highly Efficient Solar-Driven Interfacial Water Evaporation. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 1223-1230.	3.2	440
43	A General, Green Chemistry Approach for Immobilization of Inorganic Catalysts in Monolithic Porous Flow-Reactors. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 1602-1610.	3.2	20
44	A facile strategy for the fabrication of a bioinspired hydrophilic@superhydrophobic patterned surface for highly efficient fog-harvesting. <i>Journal of Materials Chemistry A</i> , 2015, 3, 18963-18969.	5.2	171
45	Multifunctional fluorescent material based on metallomicelles trapped in silica nanochannels. <i>Journal of Materials Chemistry C</i> , 2014, 2, 1962-1965.	2.7	9
46	Facile synthesis of highly graphitized porous carbon monoliths with a balance on crystallization and pore-structure. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12785-12791.	5.2	43
47	Synthesis of hierarchically porous silica film with controllable surface wettability. <i>International Nano Letters</i> , 2014, 4, 1.	2.3	23
48	Phase change in modified hierarchically porous monolith: An extra energy increase. <i>Microporous and Mesoporous Materials</i> , 2014, 193, 69-76.	2.2	25
49	Bio-inspired high performance electrochemical supercapacitors based on conducting polymer modified coral-like monolithic carbon. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8876.	5.2	51
50	Hierarchically porous tungstophosphoric acid/silica hybrid for high performance vis-light photocatalysis. <i>Journal of Environmental Chemical Engineering</i> , 2013, 1, 719-727.	3.3	8
51	Hierarchically porous silica as an efficient catalyst carrier for high performance vis-light assisted Fenton degradation. <i>Microporous and Mesoporous Materials</i> , 2013, 176, 178-185.	2.2	39
52	A reverse membrane emulsification process based on a hierarchically porous monolith for high efficiency water@oil separation. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1701-1708.	5.2	64
53	Superwetting monolithic carbon with hierarchical structure as supercapacitor materials. <i>Microporous and Mesoporous Materials</i> , 2012, 163, 249-258.	2.2	28
54	Superwetting monolithic SiO <sub>2</sub> with hierarchical structure for oil removal. <i>Journal of Materials Chemistry</i> , 2011, 21, 11901.	6.7	68

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55	High performance adsorbents based on hierarchically porous silica for purifying multicomponent wastewater. <i>Journal of Materials Chemistry</i> , 2011, 21, 15567.	6.7	78