

Ranwen Ou

List of Publications by Year in descending order

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34
papers

2,123
citations

331259

21
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414034

32
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all docs

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docs citations

34
times ranked

2765
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafast selective transport of alkali metal ions in metal organic frameworks with subnanometer pores. <i>Science Advances</i> , 2018, 4, eaaq0066.	4.7	368
2	Robust Thermo-responsive Polymer Composite Membrane with Switchable Superhydrophilicity and Superhydrophobicity for Efficient Oil-Water Separation. <i>Environmental Science & Technology</i> , 2016, 50, 906-914.	4.6	200
3	Graphene oxide modified graphitic carbon nitride as a modifier for thin film composite forward osmosis membrane. <i>Journal of Membrane Science</i> , 2015, 475, 281-289.	4.1	174
4	Preparation of polyethersulfone/carbon nanotube substrate for high-performance forward osmosis membrane. <i>Desalination</i> , 2013, 330, 70-78.	4.0	161
5	Homochiral MOF-Polymer Mixed Matrix Membranes for Efficient Separation of Chiral Molecules. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16928-16935.	7.2	141
6	A sunlight-responsive metal-organic framework system for sustainable water desalination. <i>Nature Sustainability</i> , 2020, 3, 1052-1058.	11.5	131
7	Thermo-sensitive polyelectrolytes as draw solutions in forward osmosis process. <i>Desalination</i> , 2013, 318, 48-55.	4.0	103
8	Highly crosslinked, chlorine tolerant polymer network entwined graphene oxide membrane for water desalination. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1533-1540.	5.2	96
9	Bioinspired Smart Gate-Location-Controllable Single Nanochannels: Experiment and Theoretical Simulation. <i>ACS Nano</i> , 2015, 9, 12264-12273.	7.3	82
10	Enhancement of desalination performance of thin-film nanocomposite membrane by cellulose nanofibers. <i>Journal of Membrane Science</i> , 2019, 592, 117363.	4.1	82
11	Unidirectional and Selective Proton Transport in Artificial Heterostructured Nanochannels with Nano-Subnano Confined Water Clusters. <i>Advanced Materials</i> , 2020, 32, e2001777.	11.1	72
12	Highly permeable thermally rearranged polymer composite membranes with a graphene oxide scaffold for gas separation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7668-7674.	5.2	71
13	Non-swelling graphene oxide-polymer nanocomposite membrane for reverse osmosis desalination. <i>Journal of Membrane Science</i> , 2018, 562, 47-55.	4.1	64
14	Thermo-responsive Amphoteric Metal-Organic Frameworks for Efficient and Reversible Adsorption of Multiple Salts from Water. <i>Advanced Materials</i> , 2018, 30, e1802767.	11.1	51
15	Hydrogel-polyurethane interpenetrating network material as an advanced draw agent for forward osmosis process. <i>Water Research</i> , 2016, 96, 292-298.	5.3	43
16	Sulfonated Sub-1-nm Metal-Organic Framework Channels with Ultrahigh Proton Selectivity. <i>Journal of the American Chemical Society</i> , 2020, 142, 9827-9833.	6.6	41
17	Homochiral MOF-Polymer Mixed Matrix Membranes for Efficient Separation of Chiral Molecules. <i>Angewandte Chemie</i> , 2019, 131, 17084-17091.	1.6	31
18	Thermally regenerable metal-organic framework with high monovalent metal ion selectivity. <i>Chemical Engineering Journal</i> , 2021, 405, 127037.	6.6	31

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19	Improvement of the Swelling Properties of Ionic Hydrogels by the Incorporation of Hydrophobic, Elastic Microfibers for Forward Osmosis Applications. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 505-512.	1.8	24
20	Microfiber-polymer hydrogel monolith as forward osmosis draw agent. <i>Journal of Membrane Science</i> , 2016, 510, 426-436.	4.1	21
21	Effect of Anion Species on Ion Current Rectification Properties of Positively Charged Nanochannels. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 28915-28922.	4.0	21
22	Periodic oscillation of ion conduction of nanofluidic diodes using a chemical oscillator. <i>Nanoscale</i> , 2017, 9, 7297-7304.	2.8	20
23	Photoresponsive Styrylpyrene-Modified MOFs for Gated Loading and Release of Cargo Molecules. <i>Chemistry of Materials</i> , 2020, 32, 10621-10627.	3.2	20
24	Effect of oxygen plasma treatment on the nanofiltration performance of reduced graphene oxide/cellulose nanofiber composite membranes. <i>Green Chemical Engineering</i> , 2021, 2, 122-131.	3.3	20
25	ZIF-derived nitrogen-doped carbon/3D graphene frameworks for all-solid-state supercapacitors. <i>RSC Advances</i> , 2016, 6, 76575-76581.	1.7	15
26	Robust Hilly Polyamide Membrane for Fast Desalination. <i>ACS Applied Polymer Materials</i> , 2021, 3, 1070-1077.	2.0	12
27	Monovalent Cation-Driven Reversible Crystal Transformation. <i>Chemistry - A European Journal</i> , 2019, 25, 12281-12287.	1.7	11
28	Fouling and cleaning of polymer-entwined graphene oxide nanocomposite membrane for forward osmosis process. <i>Separation Science and Technology</i> , 2019, 54, 1376-1386.	1.3	6
29	Preparation of high-flux ultrafiltration membranes by blending strongly charged polymer. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	5
30	Nitrogen-Rich, Well-Dispersed Nanoporous Carbon Materials for Super-Efficient Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2019, 6, 1894-1900.	1.7	3
31	Frontispiece: Homochiral MOF-Polymer Mixed Matrix Membranes for Efficient Separation of Chiral Molecules. <i>Angewandte Chemie - International Edition</i> , 2019, 58, .	7.2	2
32	Water Desalination: Thermoresponsive Amphoteric Metal-Organic Frameworks for Efficient and Reversible Adsorption of Multiple Salts from Water (<i>Adv. Mater.</i> 34/2018). <i>Advanced Materials</i> , 2018, 30, 1870256.	11.1	1
33	Frontispiz: Homochiral MOF-Polymer Mixed Matrix Membranes for Efficient Separation of Chiral Molecules. <i>Angewandte Chemie</i> , 2019, 131, .	1.6	0
34	Thermo-responsive Membranes with Switchable Superhydrophilicity and Superhydrophobicity for Oil-Water Separation. <i>RSC Smart Materials</i> , 2019, , 362-388.	0.1	0