Yanying Wei

List of Publications by Year
in descending order

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62	5,932	117571	118793
papers	citations	34 h-index	62 g-index

77	77	77	5723
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Twoâ€Dimensional Lamellar Membrane: MXene Nanosheet Stacks. Angewandte Chemie - International Edition, 2017, 56, 1825-1829.	7.2	831
2	MXene molecular sieving membranes for highly efficient gas separation. Nature Communications, 2018, 9, 155.	5.8	825
3	Effective ion sieving with Ti3C2Tx MXene membranes for production of drinking water from seawater. Nature Sustainability, 2020, 3, 296-302.	11.5	468
4	Self-Crosslinked MXene (Ti₃C₂T_x) Membranes with Good Antiswelling Property for Monovalent Metal Ion Exclusion. ACS Nano, 2019, 13, 10535-10544.	7.3	284
5	Water Transport with Ultralow Friction through Partially Exfoliated gâ€C₃N₄ Nanosheet Membranes with Selfâ€Supporting Spacers. Angewandte Chemie - International Edition, 2017, 56, 8974-8980.	7.2	266
6	Paralyzed membrane: Current-driven synthesis of a metal-organic framework with sharpened propene/propane separation. Science Advances, 2018, 4, eaau1393.	4.7	234
7	Ultraâ€Tuning of the Aperture Size in Stiffened ZIFâ€8_Cm Frameworks with Mixedâ€Linker Strategy for Enhanced CO₂/CH₄ Separation. Angewandte Chemie - International Edition, 2019, 58, 327-331.	7.2	215
8	Oppositely Charged Ti₃C₂T_x MXene Membranes with 2D Nanofluidic Channels for Osmotic Energy Harvesting. Angewandte Chemie - International Edition, 2020, 59, 8720-8726.	7.2	196
9	Antibiotics Separation with MXene Membranes Based on Regularly Stacked Highâ€Aspectâ€Ratio Nanosheets. Angewandte Chemie - International Edition, 2020, 59, 9751-9756.	7.2	134
10	Ultra-thin titanium carbide (MXene) sheet membranes for high-efficient oil/water emulsions separation. Journal of Membrane Science, 2019, 592, 117361.	4.1	132
11	Flexible Polypropylene-Supported ZIF-8 Membranes for Highly Efficient Propene/Propane Separation. Journal of the American Chemical Society, 2020, 142, 20915-20919.	6.6	125
12	A Lamellar MXene (Ti₃C₂T_x)/PSS Composite Membrane for Fast and Selective Lithiumâ€Ion Separation. Angewandte Chemie - International Edition, 2021, 60, 22265-22269.	7.2	117
13	Selective gas diffusion in two-dimensional MXene lamellar membranes: insights from molecular dynamics simulations. Journal of Materials Chemistry A, 2018, 6, 11734-11742.	5.2	96
14	A Twoâ€Dimensional Lamellar Membrane: MXene Nanosheet Stacks. Angewandte Chemie, 2017, 129, 1851-1855.	1.6	95
15	Two-dimensional MXene membrane for ethanol dehydration. Journal of Membrane Science, 2019, 590, 117300.	4.1	78
16	A Dualâ€Phase Ceramic Membrane with Extremely High H₂ Permeation Flux Prepared by Autoseparation of a Ceramic Precursor. Angewandte Chemie - International Edition, 2016, 55, 10895-10898.	7.2	76
17	Gas to Liquids: Natural Gas Conversion to Aromatic Fuels and Chemicals in a Hydrogen-Permeable Ceramic Hollow Fiber Membrane Reactor. ACS Catalysis, 2016, 6, 2448-2451.	5.5	70
18	Innentitelbild: Feinâ€Tuning der PorengrÃ¶ÃŸe in versteiften ZIFâ€8_Cmâ€Gerüsten durch eine Mixedâ€Linkerâ€Strategie fÃ¼r verbesserte permeative CO₂/CH₄â€Trennung (Angew.) TjETQq0 0 0 rgBT /O		

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19	Introduction of metal precursors by electrodeposition for the in situ growth of metalâ€“organic framework membranes on porous metal substrates. Journal of Materials Chemistry A, 2017, 5, 1948-1951.	5.2	65
20	Oppositely Charged Ti₃C₂T_x MXene Membranes with 2D Nanofluidic Channels for Osmotic Energy Harvesting. Angewandte Chemie, 2020, 132, 8798-8804.	1.6	65
21	Self-Sacrificial Template Strategy Coupled with Smart in Situ Seeding for Highly Oriented Metalâ€“Organic Framework Layers: From Films to Membranes. Chemistry of Materials, 2017, 29, 7103-7107.	3.2	60
22	Balancing the Grain Boundary Structure and the Framework Flexibility through Bimetallic Metalâ€“Organic Framework (MOF) Membranes for Gas Separation. Journal of the American Chemical Society, 2020, 142, 9582-9586.	6.6	58
23	Fast electrophoretic preparation of large-area two-dimensional titanium carbide membranes for ion sieving. Chemical Engineering Journal, 2021, 408, 127806.	6.6	56
24	Preparation and oxygen permeation of Uâ€shaped perovskite hollowâ€fiber membranes. AICHE Journal, 2011, 57, 975-984.	1.8	55
25	Fast fabrication of freestanding MXene-ZIF-8 dual-layered membranes for H2/CO2 separation. Journal of Membrane Science, 2022, 642, 119982.	4.1	54
26	Highly efficient H2/CO2 separation via an ultrathin metal-organic framework membrane. Chemical Engineering Science, 2018, 182, 180-188.	1.9	51
27	Oxygen separation through Uâ€shaped hollow fiber membrane using pure CO₂ as sweep gas. AICHE Journal, 2012, 58, 2856-2864.	1.8	47
28	A CO₂â€stable hollowâ€fiber membrane with high hydrogen permeation flux. AICHE Journal, 2015, 61, 1997-2007.	1.8	45
29	Oxygen permeation through a CO₂â€tolerant mixed conducting oxide (Pr_{0.9}La_{0.1})₂(Ni_{0.74}Cu_{0.21}Ga_{0.05})O_{4+Î´}. AICHE Journal, 2012, 58, 2473-2478.	1.8	44
30	Solventâ€free route for metalâ€“organic framework membranes growth aiming for efficient gas separation. AICHE Journal, 2019, 65, 712-722.	1.8	39
31	Adsorption and separation of propane/propylene on various ZIF-8 polymorphs: Insights from GCMC simulations and the ideal adsorbed solution theory (IAST). Chemical Engineering Journal, 2020, 386, 123945.	6.6	39
32	Niobium and molybdenum co-doped La5.5WO11.25â^' membrane with improved hydrogen permeability. Journal of Membrane Science, 2016, 510, 155-163.	4.1	37
33	Hydrogen permeability and stability of BaCe0.85Tb0.05Zr0.1O3â^' asymmetric membranes. Journal of Membrane Science, 2015, 488, 173-181.	4.1	36
34	Recent progress of two-dimensional nanosheet membranes and composite membranes for separation applications. Frontiers of Chemical Science and Engineering, 2021, 15, 793-819.	2.3	36
35	Enhanced stability of Zr-doped Ba(CeTb)O_{3â^'Î´}-Ni cermet membrane for hydrogen separation. Chemical Communications, 2015, 51, 11619-11621.	2.2	35
36	Tuning the separation performance of hydrogen permeable membranes using an anion doping strategy. Journal of Materials Chemistry A, 2017, 5, 20482-20490.	5.2	32

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37	Water Transport with Ultralow Friction through Partially Exfoliated gâ€C₃N₄ Nanosheet Membranes with Selfâ€Supporting Spacers. Angewandte Chemie, 2017, 129, 9102-9108.	1.6	31
38	A Lamellar MXene (Ti₃C₂T_x)/PSS Composite Membrane for Fast and Selective Lithiumâ€Ion Separation. Angewandte Chemie, 2021, 133, 22439-22443.	1.6	31
39	Oxidative Coupling of Methane with High C₂ Yield by using Chlorinated Perovskite Ba_{0.5}Sr_{0.5}Fe_{0.2}Co_{0.8}O_{3â^'Î´} as Catalyst and N₂O as Oxidant. ChemCatChem, 2010, 2, 1539-1542.	1.8	28
40	Oxygen Permeation through U-Shaped K₂NiF₄-Type Oxide Hollow-Fiber Membranes. Industrial & Engineering Chemistry Research, 2011, 50, 12727-12734.	1.8	26
41	Partial oxidation of methane in hollowâ€fiber membrane reactors based on alkalineâ€earth metalâ€free CO₂â€tolerant oxide. AICHE Journal, 2014, 60, 3587-3595.	1.8	25
42	Hydrogen permeability through Nd5.5W0.35Mo0.5Nb0.15O11.25-Î´ mixed protonic-electronic conducting membrane. Journal of Membrane Science, 2019, 579, 33-39.	4.1	24
43	High oxygen permeation through A-site deficient K 2 NiF 4+Î´ -type oxide hollow-fiber membrane. Ceramics International, 2018, 44, 10852-10857.	2.3	20
44	Antibiotics Separation with MXene Membranes Based on Regularly Stacked Highâ€Aspectâ€Ratio Nanosheets. Angewandte Chemie, 2020, 132, 9838-9843.	1.6	20
45	CO2-tolerant U-shaped hollow fiber membranes for hydrogen separation. International Journal of Hydrogen Energy, 2017, 42, 4208-4215.	3.8	19
46	Effect of the La/W ratio in lanthanum tungstate on the structure, stability and hydrogen permeation properties. Journal of Membrane Science, 2017, 542, 300-306.	4.1	18
47	CO2-tolerant Ni-La5.5WO11.25-Î´ dual-phase membranes with enhanced H2 permeability. Ceramics International, 2017, 43, 14608-14615.	2.3	18
48	Feinâ€Tuning der PorengrÃ¶ÃŸe in versteiften ZIFâ€8_Cmâ€Gerüsten durch eine Mixedâ€Linkerâ€Strategie fÃ¼r verbesserte permeative CO₂/CH₄â€Trennung. Angewandte Chemie, 2019, 131, 333-337.	1.6	18
49	Oxygen permeability and structural stability of a novel tantalumâ€doped perovskite BaCo_{0.7}Fe_{0.2}Ta_{0.1}O_{3â^'Î´}. AICHE Journal, 2010, 56, 604-610.	1.8	17
50	Effect of Pt layer on the hydrogen permeation property of La 5.5 W 0.45 Nb 0.15 Mo 0.4 O 11.25-Î´ membrane. Journal of Membrane Science, 2018, 552, 61-67.	4.1	16
51	Novel membrane separation technologies and membrane processes. Frontiers of Chemical Science and Engineering, 2021, 15, 717-719.	2.3	16
52	Supported MXene/GO Composite Membranes with Suppressed Swelling for Metal Ion Sieving. Membranes, 2021, 11, 621.	1.4	16
53	U-Shaped BaCo_{0.7}Fe_{0.2}Ta_{0.1}O_{3â^'Î´} Hollow-Fiber Membranes with High Permeation for Oxygen Separation. Industrial & Engineering Chemistry Research, 2012, 51, 15217-15223.	1.8	14
54	Oxyâ€fuel combustion for CO₂ capture using a CO₂â€tolerant oxygen transporting membrane. AICHE Journal, 2013, 59, 3856-3862.	1.8	13

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55	Phase-inversion synthesize of asymmetric-structured La5.5W0.6Mo0.4O11.25-Î´ membranes with enhanced hydrogen permeation flux. Journal of Alloys and Compounds, 2017, 729, 890-896.	2.8	12
56	Identical Composition and Distinct Performance: How ZIF-8 Polymorphsâ€™ Structures Affect the Adsorption/Separation of Ethane and Ethene. Journal of Chemical & Engineering Data, 2021, 66, 3483-3492.	1.0	10
57	Modeling of U-shaped Ba 0.5 Sr 0.5 Co 0.8 Fe 0.2 O 3â^'Î´ hollow-fiber membrane for oxygen permeation. Chinese Journal of Chemical Engineering, 2017, 25, 892-897.	1.7	8
58	Porous stainless steel hollow fiber-supported ZIF-8 membranes via FCDS for hydrogen/carbon dioxide separation. Separation and Purification Technology, 2022, 295, 121365.	3.9	7
59	Eine zweiphasige Keramikmembran mit extrem hohem Wasserstoffâ€Fluss durch Entmischung einer keramischen Vorstufe. Angewandte Chemie, 2016, 128, 11055-11058.	1.6	4
60	Frontispiz: Water Transport with Ultralow Friction through Partially Exfoliated gâ€C₃N₄ Nanosheet Membranes with Selfâ€Supporting Spacers. Angewandte Chemie, 2017, 129, .	1.6	2
61	C₃H₆/C₃H₈ Adsorption Behavior Study of Stiffened ZIFâ€8 Prepared under an Electric Field. Chemie-Ingenieur-Technik, 2022, 94, 119-127.	0.4	2
62	Frontispiece: Water Transport with Ultralow Friction through Partially Exfoliated gâ€C₃N₄ Nanosheet Membranes with Selfâ€Supporting Spacers. Angewandte Chemie - International Edition, 2017, 56, .	7.2	0