Jian Xue

List of Publications by Year in descending order

30 papers	2,657 citations	393982 19 h-index	476904 29 g-index
30 all docs	30 docs citations	30 times ranked	3658 citing authors

#	Article	IF	Citations
1	MXene molecular sieving membranes for highly efficient gas separation. Nature Communications, 2018, 9, 155.	5.8	825
2	Molybdenum Carbide Nanodots Enable Efficient Electrocatalytic Nitrogen Fixation under Ambient Conditions. Advanced Materials, 2018, 30, e1803694.	11.1	572
3	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
4	Paralyzed membrane: Current-driven synthesis of a metal-organic framework with sharpened propene/propane separation. Science Advances, 2018, 4, eaau1393.	4.7	234
5	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
6	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
7	Enhanced water flux through graphitic carbon nitride nanosheets membrane by incorporating polyacrylic acid. AICHE Journal, 2018, 64, 2181-2188.	1.8	66
8	Preparation and oxygen permeation of Uâ€shaped perovskite hollowâ€fiber membranes. AICHE Journal, 2011, 57, 975-984.	1.8	55
9	Enhanced antipressure ability through graphene oxide membrane by intercalating gâ€C₃N₄ nanosheets for water purification. AICHE Journal, 2019, 65, e16699.	1.8	54
10	A new CO₂-resistant Ruddlesdenâ€“Popper oxide with superior oxygen transport: A-site deficient (Pr_{0.9}La_{0.1})_{1.9}(Ni_{0.74}Cu_{0.21}Ga_{0.05})O_{4+Î´} Journal of Materials Chemistry A, 2015, 3, 19107-19114.	5.2	48
11	Covalent Organic Framework Membranes for Efficient Chemicals Separation. Small Structures, 2021, 2, 2100061.	6.9	48
12	Oxygen separation through Uâ€shaped hollow fiber membrane using pure CO₂ as sweep gas. AICHE Journal, 2012, 58, 2856-2864.	1.8	47
13	Hydrogen permeability and stability of BaCe0.85Tb0.05Zr0.1O3â^' asymmetric membranes. Journal of Membrane Science, 2015, 488, 173-181.	4.1	36
14	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
15	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
16	The phase stability of the Ruddlesden-Popper type oxide (Pr0.9La0.1)2.0Ni0.74Cu0.21Ga0.05O4+ in an oxidizing environment. Journal of Membrane Science, 2016, 497, 357-364.	4.1	25
17	Asymmetric membrane structure: An efficient approach to enhance hydrogen separation performance. Separation and Purification Technology, 2018, 207, 363-369.	3.9	24
18	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

#	Article	IF	Citations
19	Tailoring hydrogen separation performance through the ceramic lanthanum tungstate membranes by chlorine doping. Journal of Membrane Science, 2019, 573, 117-125.	4.1	20
20	CO2-tolerant Ni-La5.5WO11.25-Î´ dual-phase membranes with enhanced H2 permeability. Ceramics International, 2017, 43, 14608-14615.	2.3	18
21	The Changeable Power Law Singularity and its Application to Prediction of Catastrophic Rupture in Uniaxial Compressive Tests of Geomedia. Journal of Geophysical Research: Solid Earth, 2018, 123, 2645-2657.	1.4	15
22	Nitrogen Reduction Reaction: Molybdenum Carbide Nanodots Enable Efficient Electrocatalytic Nitrogen Fixation under Ambient Conditions (Adv. Mater. 46/2018). Advanced Materials, 2018, 30, 1870350.	11.1	14
23	Proton conducting membranes for hydrogen and ammonia production. Reaction Chemistry and Engineering, 2021, 6, 1739-1770.	1.9	12
24	Enhanced Hydrogen Permeability of Mixed Protonicâ€“Electronic Conducting Membranes through an Inâ€Situ Exsolution Strategy. Advanced Functional Materials, 2022, 32, .	7.8	12
25	Localization of deformation and its effects on power-law singularity preceding catastrophic rupture in rocks. International Journal of Damage Mechanics, 2020, 29, 86-102.	2.4	11
26	Flow field analyses of a porous membrane-separated, double-layered microfluidic chip for cell co-culture. Acta Mechanica Sinica/Lixue Xuebao, 2020, 36, 754-767.	1.5	11
27	Catalytic ceramic oxygen ionic conducting membrane reactors for ethylene production. Reaction Chemistry and Engineering, 2021, 6, 1327-1341.	1.9	8
28	Mixed Oxygen Ionic and Electronic Conducting Membrane Reactors for Pure Chemicals Production. Chemie-Ingenieur-Technik, 2022, 94, 31-41.	0.4	5
29	Frontispiz: Water Transport with Ultralow Friction through Partially Exfoliated gâ€C‹sub›3‹/sub›N‹sub›4‹/sub› Nanosheet Membranes with Selfâ€Supporting Spacers. Angewandte Chemie, 2017, 129, .	1.6	2
30	Frontispiece: Water Transport with Ultralow Friction through Partially Exfoliated gâ€C‹sub›3‹/sub›N‹sub›4‹/sub› Nanosheet Membranes with Selfâ€Supporting Spacers. Angewandte Chemie - International Edition, 2017, 56, .	7.2	0