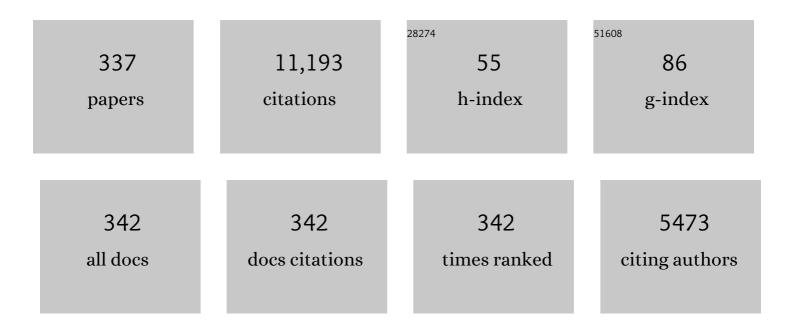
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The electrostatic and steric-hindrance model for the transport of charged solutes through nanofiltration membranes. Journal of Membrane Science, 1997, 135, 19-32.	8.2	310
2	Design of Silica Networks for Development of Highly Permeable Hydrogen Separation Membranes with Hydrothermal Stability. Journal of the American Chemical Society, 2009, 131, 414-415.	13.7	222
3	Two-Dimensional Covalent Organic Framework (COF) Membranes Fabricated via the Assembly of Exfoliated COF Nanosheets. ACS Applied Materials & Interfaces, 2017, 9, 8433-8436.	8.0	222
4	Electrolyte transport through nanofiltration membranes by the space-charge model and the comparison with Teorell-Meyer-Sievers model. Journal of Membrane Science, 1995, 103, 117-133.	8.2	219
5	Calculation of ion rejection by extended Nernst-Planck equation with charged reverse osmosis membranes for single and mixed electrolyte solutions Journal of Chemical Engineering of Japan, 1991, 24, 511-517.	0.6	195
6	Evaluation of pore structure and electrical properties of nanofiltration membranes Journal of Chemical Engineering of Japan, 1995, 28, 186-192.	0.6	178
7	Controlled synthesis of high performance polyamide membrane with thin dense layer for water desalination. Journal of Membrane Science, 2010, 362, 76-80.	8.2	169
8	Characterization of Coâ€Doped Silica for Improved Hydrothermal Stability and Application to Hydrogen Separation Membranes at High Temperatures. Journal of the American Ceramic Society, 2008, 91, 2975-2981.	3.8	162
9	Separation of proteins by charged ultrafiltration membranes. Desalination, 1988, 70, 191-205.	8.2	159
10	Permporometry characterization of microporous ceramic membranes. Journal of Membrane Science, 2001, 186, 257-265.	8.2	151
11	Reverse osmosis of single and mixed electrolytes with charged membranes: Experiment and analysis Journal of Chemical Engineering of Japan, 1991, 24, 518-524.	0.6	149
12	Hydrothermal Stability and Performance of Silica-Zirconia Membranes for Hydrogen Separation in Hydrothermal Conditions Journal of Chemical Engineering of Japan, 2001, 34, 523-530.	0.6	148
13	Methane steam reforming by microporous catalytic membrane reactors. AICHE Journal, 2004, 50, 2794-2805.	3.6	143
14	Nano/subnano-tuning of porous ceramic membranes for molecular separation. Journal of Sol-Gel Science and Technology, 2008, 46, 349-361.	2.4	138
15	INORGANIC POROUS MEMBRANES FOR LIQUID PHASE SEPARATION. Separation and Purification Reviews, 2001, 30, 191-220.	0.8	137
16	Organic–inorganic hybrid silica membranes with controlled silica network size: Preparation and gas permeation characteristics. Journal of Membrane Science, 2010, 348, 310-318.	8.2	133
17	Evaluation and fabrication of poreâ€sizeâ€ŧuned silica membranes with tetraethoxydimethyl disiloxane for gas separation. AICHE Journal, 2011, 57, 2755-2765.	3.6	119
18	Development of Robust Organosilica Membranes for Reverse Osmosis. Langmuir, 2011, 27, 13996-13999.	3.5	118

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19	Temperature effect on transport performance by inorganic nanofiltration membranes. AICHE Journal, 2000, 46, 565-574.	3.6	116
20	Co-solvent-mediated synthesis of thin polyamide membranes. Journal of Membrane Science, 2011, 384, 10-16.	8.2	116
21	Peptide and Amino Acid Separation with Nanofiltration Membranes. Separation Science and Technology, 1994, 29, 971-984.	2.5	111
22	Experimental studies of gas permeation through microporous silica membranes. AICHE Journal, 2001, 47, 2052-2063.	3.6	105
23	Controlled surface morphology of polyamide membranes via the addition of co-solvent for improved permeate flux. Journal of Membrane Science, 2014, 467, 303-312.	8.2	105
24	Negative rejection of anions in the loose reverse osmosis separation of mono- and divalent ion mixtures. Desalination, 1991, 81, 219-227.	8.2	102
25	Silica–zirconia membranes for nanofiltration. Journal of Membrane Science, 1998, 149, 127-135.	8.2	97
26	Permeation properties of hydrogen and water vapor through porous silica membranes at high temperatures. AICHE Journal, 2011, 57, 618-629.	3.6	96
27	Preparation of BTESE-derived organosilica membranes for catalytic membrane reactors of methylcyclohexane dehydrogenation. Journal of Membrane Science, 2014, 455, 375-383.	8.2	96
28	Organic–Inorganic Hybrid Silica Membranes with Controlled Silica Network Size for Propylene/Propane Separation. Industrial & Engineering Chemistry Research, 2012, 51, 944-953.	3.7	95
29	Gas transport properties of interfacially polymerized polyamide composite membranes under different pre-treatments and temperatures. Journal of Membrane Science, 2014, 449, 109-118.	8.2	95
30	Nanofiltration in non-aqueous solutions by porous silica–zirconia membranes. Journal of Membrane Science, 2001, 185, 253-261.	8.2	87
31	Titania membranes for liquid phase separation: effect of surface charge on flux. Separation and Purification Technology, 2001, 25, 307-314.	7.9	86
32	Permeation of Liquids through Inorganic Nanofiltration Membranes. Journal of Colloid and Interface Science, 2000, 228, 292-296.	9.4	85
33	Structural Characterization of Thin-Film Polyamide Reverse Osmosis Membranes. Industrial & Engineering Chemistry Research, 2014, 53, 1442-1451.	3.7	83
34	Application of interfacially polymerized polyamide composite membranes to isopropanol dehydration: Effect of membrane pre-treatment and temperature. Journal of Membrane Science, 2014, 453, 384-393.	8.2	81
35	Optimizing the preparation of multi-layered polyamide membrane via the addition of a co-solvent. Journal of Membrane Science, 2014, 453, 489-497.	8.2	80
36	Preparation of microporous membranes by TEOS/O3 CVD in the opposing reactants geometry. Microporous and Mesoporous Materials, 2000, 37, 145-152.	4.4	78

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37	Porous Al2O3/TiO2 tubes in combination with 1-ethyl-3-methylimidazolium acetate ionic liquid for CO2/N2 separation. Separation and Purification Technology, 2014, 122, 440-448.	7.9	78
38	Enhanced performance of inorganic-polyamide nanocomposite membranes prepared by metal-alkoxide-assisted interfacial polymerization. Journal of Membrane Science, 2011, 366, 382-388.	8.2	77
39	Preparation of organic–inorganic hybrid silica membranes using organoalkoxysilanes: The effect of pendant groups. Journal of Membrane Science, 2011, 379, 287-295.	8.2	77
40	Gas permeation properties of MFI zeolite membranes prepared by the secondary growth of colloidal silicalite and application to the methylation of toluene. Microporous and Mesoporous Materials, 2002, 54, 257-268.	4.4	73
41	New Insights into the Microstructure-Separation Properties of Organosilica Membranes with Ethane, Ethylene, and Acetylene Bridges. ACS Applied Materials & Interfaces, 2014, 6, 9357-9364.	8.0	69
42	Permeation equations developed for prediction of membrane performance in pervaporation, vapor permeation and reverse osmosis based on the solution-diffusion model Journal of Chemical Engineering of Japan, 1991, 24, 326-333.	0.6	67
43	Membrane reactor performance of steam reforming of methane using hydrogen-permselective catalytic SiO2 membranes. Journal of Membrane Science, 2008, 316, 53-62.	8.2	67
44	Thin Ionic Liquid Membranes Based on Inorganic Supports with Different Pore Sizes. Industrial & Engineering Chemistry Research, 2014, 53, 8045-8056.	3.7	65
45	Gas permeation properties for organosilica membranes with different Si/C ratios and evaluation of microporous structures. AICHE Journal, 2017, 63, 4491-4498.	3.6	65
46	Organic solvent reverse osmosis membranes for organic liquid mixture separation: A review. Journal of Membrane Science, 2021, 620, 118882.	8.2	65
47	Transport of organic electrolytes with electrostatic and steric-hindrance effects through nanofiltration membranes Journal of Chemical Engineering of Japan, 1995, 28, 372-380.	0.6	64
48	A molecular dynamics simulation of a homogeneous organic–inorganic hybrid silica membrane. Chemical Communications, 2010, 46, 9140.	4.1	63
49	Ammonia decomposition in catalytic membrane reactors: Simulation and experimental studies. AICHE Journal, 2013, 59, 168-179.	3.6	63
50	Effect of firing temperature on the water permeability of SiO2–ZrO2 membranes for nanofiltration. Journal of Membrane Science, 2016, 497, 348-356.	8.2	59
51	Phase inversion/sintering-induced porous ceramic microsheet membranes for high-quality separation of oily wastewater. Journal of Membrane Science, 2020, 595, 117477.	8.2	59
52	Inorganic porous membranes for nanofiltration of nonaqueous solutions. Separation and Purification Technology, 2003, 32, 105-109.	7.9	58
53	Recovery of spent electroless nickel plating bath by electrodialysis. Journal of Membrane Science, 1999, 157, 241-249.	8.2	57
54	Characterization of sol–gel derived membranes and zeolite membranes by nanopermporometry. Separation and Purification Technology, 2003, 32, 23-27.	7.9	57

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55	Pervaporation characteristics of aqueous–organic solutions with microporous SiO2–ZrO2 membranes: Experimental study on separation mechanism. Journal of Membrane Science, 2006, 284, 205-213.	8.2	57
56	Permeation Characteristics of Electrolytes and Neutral Solutes through Titania Nanofiltration Membranes at High Temperatures. Langmuir, 2010, 26, 10897-10905.	3.5	57
57	Highly enhanced ammonia decomposition in a bimodal catalytic membrane reactor for CO -free hydrogen production. Catalysis Communications, 2011, 15, 60-63.	3.3	57
58	Progress in pervaporation membranes for dehydration of acetic acid. Separation and Purification Technology, 2021, 262, 118338.	7.9	56
59	CATALYTIC MEMBRANE REACTION FOR METHANE STEAM REFORMING USING POROUS SILICA MEMBRANES. Separation Science and Technology, 2001, 36, 3721-3736.	2.5	55
60	"Pre-seeding―assisted synthesis of a high performance polyamide-zeolite nanocomposite membrane for water purification. New Journal of Chemistry, 2010, 34, 2101.	2.8	55
61	Preparation of a novel bimodal catalytic membrane reactor and its application to ammonia decomposition for COx-free hydrogen production. International Journal of Hydrogen Energy, 2012, 37, 12105-12113.	7.1	54
62	Pervaporation of acetic acid aqueous solutions by organosilica membranes. Journal of Membrane Science, 2012, 421-422, 25-31.	8.2	54
63	Reverse osmosis performance of organosilica membranes and comparison with the pervaporation and gas permeation properties. AICHE Journal, 2013, 59, 1298-1307.	3.6	53
64	Ion separation by porous silica-zirconia nanofiltration membranes. AICHE Journal, 1998, 44, 765-768.	3.6	52
65	A bimodal catalytic membrane having a hydrogen-permselective silica layer on a bimodal catalytic support: Preparation and application to the steam reforming of methane. Applied Catalysis A: General, 2006, 302, 78-85.	4.3	52
66	Cobalt-doped silica membranes for pervaporation dehydration of ethanol/water solutions. Journal of Membrane Science, 2011, 369, 13-19.	8.2	52
67	Modified gasâ€translation model for prediction of gas permeation through microporous organosilica membranes. AICHE Journal, 2014, 60, 4199-4210.	3.6	52
68	Silica-Based Membranes with Molecular-Net-Sieving Properties: Development and Applications. Journal of Chemical Engineering of Japan, 2018, 51, 713-725.	0.6	52
69	Effect of calcination temperature on the PV dehydration performance of alcohol aqueous solutions through BTESE-derived silica membranes. Journal of Membrane Science, 2012, 415-416, 810-815.	8.2	50
70	Membrane transport properties of pervaporation and vapor permeation in ethanol-water system using polyacrylonitrile and cellulose acetate membranes Journal of Chemical Engineering of Japan, 1991, 24, 334-339.	0.6	48
71	Multilayered polyamide membranes by spray-assisted 2-step interfacial polymerization for increased performance of trimesoyl chloride (TMC)/m-phenylenediamine (MPD)-derived polyamide membranes. Journal of Membrane Science, 2013, 446, 504-512.	8.2	48
72	Nanoporous titania membranes for permeation and filtration of organic solutions. Desalination, 2008, 233, 1-9.	8.2	47

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73	Molecular simulation of micro-structures and gas diffusion behavior of organic–inorganic hybrid amorphous silica membranes. Journal of Membrane Science, 2011, 381, 90-101.	8.2	47
74	Separation of propylene/propane binary mixtures by bis(triethoxysilyl) methane (BTESM)-derived silica membranes fabricated at different calcination temperatures. Journal of Membrane Science, 2012, 415-416, 478-485.	8.2	47
75	Micropore size estimation on gas separation membranes: A study in experimental and molecular dynamics. AICHE Journal, 2013, 59, 2179-2194.	3.6	47
76	Graphene nanosheets supporting Ru nanoparticles with controlled nanoarchitectures form a high-performance catalyst for CO <sub>x</sub> -free hydrogen production from ammonia. Journal of Materials Chemistry A, 2014, 2, 9185-9192.	10.3	47
77	Pervaporation dehydration of aqueous solutions of various types of molecules via organosilica membranes: Effect of membrane pore sizes and molecular sizes. Separation and Purification Technology, 2018, 207, 108-115.	7.9	47
78	Bipolar reverse osmosis membrane for separating mono-and divalent ions. Journal of Membrane Science, 1992, 70, 153-162.	8.2	46
79	Characterization and gas permeation properties of amorphous silica membranes prepared via plasma enhanced chemical vapor deposition. Journal of Membrane Science, 2013, 441, 45-53.	8.2	46
80	Tailoring the Affinity of Organosilica Membranes by Introducing Polarizable Ethenylene Bridges and Aqueous Ozone Modification. ACS Applied Materials & Interfaces, 2013, 5, 6147-6154.	8.0	46
81	Role of Amine Type in CO2 Separation Performance within Amine Functionalized Silica/Organosilica Membranes: A Review. Applied Sciences (Switzerland), 2018, 8, 1032.	2.5	46
82	Energy-efficient separation of organic liquids using organosilica membranes via a reverse osmosis route. Journal of Membrane Science, 2020, 597, 117758.	8.2	46
83	Effective charge density and pore structure of charged ultrafiltration membranes Journal of Chemical Engineering of Japan, 1990, 23, 604-610.	0.6	45
84	Gas permeation properties of silica membranes with uniform pore sizes derived from polyhedral oligomeric silsesquioxane. AICHE Journal, 2012, 58, 1733-1743.	3.6	45
85	Pervaporation of water/ethanol mixtures through microporous silica membranes. Separation and Purification Technology, 2009, 66, 479-485.	7.9	44
86	Methylcyclohexane dehydrogenation for hydrogen production via a bimodal catalytic membrane reactor. AICHE Journal, 2015, 61, 1628-1638.	3.6	44
87	Preparation of hydrophobic nanoporous methylated SiO2 membranes and application to nanofiltration of hexane solutions. Journal of Membrane Science, 2011, 384, 149-156.	8.2	43
88	CO <sub>2</sub> Permeation through Hybrid Organosilica Membranes in the Presence of Water Vapor. Industrial & Engineering Chemistry Research, 2014, 53, 6113-6120.	3.7	43
89	Pervaporation removal of methanol from methanol/organic azeotropes using organosilica membranes: Experimental and modeling. Journal of Membrane Science, 2020, 610, 118284.	8.2	43
90	A photocatalytic membrane reactor for gas-phase reactions using porous titanium oxide membranes. Catalysis Today, 2003, 82, 41-48.	4.4	42

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91	Filtration of surfactant-stabilized oil-in-water emulsions with porous ceramic membranes: Effects of membrane pore size and surface charge on fouling behavior. Journal of Membrane Science, 2020, 610, 118210.	8.2	42
92	A photocatalytic membrane reactor for VOC decomposition using Pt-modified titanium oxide porous membranes. Journal of Membrane Science, 2006, 280, 156-162.	8.2	41
93	Characteristics of ammonia permeation through porous silica membranes. AICHE Journal, 2010, 56, 1204-1212.	3.6	41
94	Extremely thin Pd–silica mixed-matrix membranes with nano-dispersion for improved hydrogen permeability. Chemical Communications, 2010, 46, 6171.	4.1	41
95	SiO2-ZrO2 nanofiltration membranes of different Si/Zr molar ratios: Stability in hot water and acid/alkaline solutions. Journal of Membrane Science, 2017, 524, 700-711.	8.2	41
96	2-Step plasma-enhanced CVD for low-temperature fabrication of silica membranes with high gas-separation performance. Chemical Communications, 2011, 47, 8070.	4.1	39
97	Control of Pd dispersion in sol–gel-derived amorphous silica membranes for hydrogen separation at high temperatures. Journal of Membrane Science, 2013, 439, 78-86.	8.2	39
98	Simulation and design of catalytic membrane reactor for hydrogen production via methylcyclohexane dehydrogenation. International Journal of Hydrogen Energy, 2017, 42, 26296-26307.	7.1	39
99	Reverse osmosis of nonaqueous solutions through porous silica-zirconia membranes. AICHE Journal, 2006, 52, 522-531.	3.6	38
100	Atmospheric-pressure plasma-enhanced chemical vapor deposition of microporous silica membranes for gas separation. Journal of Membrane Science, 2017, 524, 644-651.	8.2	38
101	Microporous organosilica membranes for gas separation prepared via PECVD using different O/Si ratio precursors. Journal of Membrane Science, 2015, 489, 11-19.	8.2	37
102	Pore-size-controlled silica membranes with disiloxane alkoxides for gas separation. Journal of Membrane Science, 2011, 383, 152-158.	8.2	36
103	Experimental and Theoretical Study on Small Gas Permeation Properties through Amorphous Silica Membranes Fabricated at Different Temperatures. Journal of Physical Chemistry C, 2014, 118, 20323-20331.	3.1	36
104	Pervaporation and vapor permeation characteristics of BTESE-derived organosilica membranes and their long-term stability in a high-water-content IPA/water mixture. Journal of Membrane Science, 2016, 498, 336-344.	8.2	36
105	Fabrication and CO2 permeation properties of amine-silica membranes using a variety of amine types. Journal of Membrane Science, 2017, 541, 447-456.	8.2	36
106	lon separation by bipolar membranes in reverse osmosis. Journal of Membrane Science, 1995, 108, 269-278.	8.2	35
107	Membrane Design for Pervaporation or Vapor Permeation Separation Using a Filling-Type Membrane Concept. Industrial & Engineering Chemistry Research, 1998, 37, 177-184.	3.7	35
108	A molecular dynamics simulation of pressure-driven gas permeation in a micropore potential field on silica membranes. Journal of Membrane Science, 2007, 293, 81-93.	8.2	35

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109	Hydrogen Permeation Properties and Hydrothermal Stability of Sol–Gelâ€Derived Amorphous Silica Membranes Fabricated at High Temperatures. Journal of the American Ceramic Society, 2013, 96, 2950-2957.	3.8	35
110	Equilibrium shift of methylcyclohexane dehydrogenation in a thermally stable organosilica membrane reactor for high-purity hydrogen production. International Journal of Hydrogen Energy, 2013, 38, 15302-15306.	7.1	35
111	Tailoring the microstructure and permeation properties of bridged organosilica membranes via control of the bond angles. Journal of Membrane Science, 2019, 584, 56-65.	8.2	35
112	Molecular dynamics studies on gas permeation properties through microporous silica membranes. Separation and Purification Technology, 2001, 25, 441-449.	7.9	34
113	Gas permeation properties through Al-doped organosilica membranes with controlled network size. Journal of Membrane Science, 2014, 466, 246-252.	8.2	34
114	Pyrimidine-bridged organoalkoxysilane membrane for high-efficiency CO 2 transport via mild affinity. Separation and Purification Technology, 2017, 178, 232-241.	7.9	34
115	Atmospheric-pressure plasma-enhanced chemical vapor deposition of UV-shielding TiO2 coatings on transparent plastics. Materials Letters, 2018, 228, 479-481.	2.6	34
116	Pervaporation of methanol/dimethyl carbonate using SiO <sub>2</sub> membranes with nanoâ€ŧuned pore sizes and surface chemistry. AICHE Journal, 2011, 57, 2079-2089.	3.6	33
117	Bis(triethoxysilyl)ethane (BTESE)-derived silica membranes: pore formation mechanism and gas permeation properties. Journal of Sol-Gel Science and Technology, 2018, 86, 63-72.	2.4	33
118	Hydrogen production from energy carriers by silica-based catalytic membrane reactors. Catalysis Today, 2016, 268, 3-11.	4.4	32
119	Development of Ethenylene-Bridged Organosilica Membranes for Desalination Applications. Industrial & Engineering Chemistry Research, 2016, 55, 2183-2190.	3.7	32
120	Catalytic Ammonia Decomposition over High-Performance Ru/Graphene Nanocomposites for Efficient COx-Free Hydrogen Production. Catalysts, 2017, 7, 23.	3.5	32
121	UV-Protective TiO <sub>2</sub> Thin Films with High Transparency in Visible Light Region Fabricated via Atmospheric-Pressure Plasma-Enhanced Chemical Vapor Deposition. ACS Applied Materials & Interfaces, 2018, 10, 42657-42665.	8.0	32
122	Organosilica-Based Membranes in Gas and Liquid-Phase Separation. Membranes, 2019, 9, 107.	3.0	32
123	Fabrication of a layered hybrid membrane using an organosilica separation layer on a porous polysulfone support, and the application to vapor permeation. Journal of Membrane Science, 2014, 464, 140-148.	8.2	31
124	Network engineering of a BTESE membrane for improved gas performance via a novel pH-swing method. Journal of Membrane Science, 2016, 511, 219-227.	8.2	31
125	Fluorine-induced microporous silica membranes: Dramatic improvement in hydrothermal stability and pore size controllability for highly permeable propylene/propane separation. Journal of Membrane Science, 2018, 549, 111-119.	8.2	31
126	Molecular dynamics study of gas permeation through amorphous silica network and inter-particle pores on microporous silica membranes. Molecular Physics, 2004, 102, 191-202.	1.7	30

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127	Permeation properties of BTESE–TEOS organosilica membranes and application to O2/SO2 gas separation. Journal of Membrane Science, 2015, 496, 211-218.	8.2	30
128	Permeation of nonaqueous solution through organic/inorganic hybrid nanoporous membranes. AICHE Journal, 2004, 50, 1080-1087.	3.6	29
129	Zeolite nanocrystals prepared from zeolite microparticles by a centrifugation-assisted grinding method. Chemical Engineering and Processing: Process Intensification, 2010, 49, 809-814.	3.6	29
130	Development and gas permeation properties of microporous amorphous TiO2–ZrO2–organic composite membranes using chelating ligands. Journal of Membrane Science, 2014, 461, 96-105.	8.2	29
131	Robust organosilica membranes for high temperature reverse osmosis (RO) application: Membrane preparation, separation characteristics of solutes and membrane regeneration. Journal of Membrane Science, 2015, 493, 515-523.	8.2	29
132	Improved thermal and oxidation stability of bis(triethoxysilyl)ethane (BTESE)-derived membranes, and their gas-permeation properties. Journal of Materials Chemistry A, 2018, 6, 23378-23387.	10.3	29
133	Preparation of organic/inorganic hybrid silica using methyltriethoxysilane and tetraethoxysilane as co-precursors. Journal of Sol-Gel Science and Technology, 2010, 53, 93-99.	2.4	28
134	Enhanced Permeation through CO <sub>2</sub> -Stable Dual-Inorganic Composite Membranes with Tunable Nanoarchitectured Channels. ACS Sustainable Chemistry and Engineering, 2018, 6, 8515-8524.	6.7	28
135	Preparation, characterization, and evaluation of TiO2-ZrO2 nanofiltration membranes fired at different temperatures. Journal of Membrane Science, 2018, 564, 691-699.	8.2	28
136	Tailoring Ultramicroporosity To Maximize CO <sub>2</sub> Transport within Pyrimidine-Bridged Organosilica Membranes. ACS Applied Materials & Interfaces, 2019, 11, 7164-7173.	8.0	28
137	Synthesis and Characterization of Microporous ZrO <sub>2</sub> Membranes for Gas Permeation at 200ŰC. Separation Science and Technology, 2011, 46, 1224-1230.	2.5	26
138	Methylcyclohexane Dehydrogenation in Catalytic Membrane Reactors for Efficient Hydrogen Production. Industrial & Engineering Chemistry Research, 2013, 52, 13325-13332.	3.7	26
139	Insight into the pore tuning of triazine-based nitrogen-rich organoalkoxysilane membranes for use in water desalination. RSC Advances, 2014, 4, 23759-23769.	3.6	25
140	Fluorine Doping of Microporous Organosilica Membranes for Pore Size Control and Enhanced Hydrophobic Properties. ACS Omega, 2018, 3, 8612-8620.	3.5	25
141	Photocatalytic Reactions in a Filtration System through Porous Titanium Dioxide Membranes Journal of Chemical Engineering of Japan, 2001, 34, 844-847.	0.6	24
142	Pervaporation performance and characterization of organosilica membranes with a tuned pore size by solid-phase HCl post-treatment. Journal of Membrane Science, 2013, 441, 120-128.	8.2	24
143	Synthesis and characterization of a layered-hybrid membrane consisting of an organosilica separation layer on a polymeric nanofiltration membrane. Journal of Membrane Science, 2014, 472, 19-28.	8.2	24
144	Preparation of organosilica membranes on hydrophobic intermediate layers and evaluation of gas permeation in the presence of water vapor. Journal of Membrane Science, 2015, 496, 156-164.	8.2	24

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145	Tailoring the Subnano Silica Structure via Fluorine Doping for Development of Highly Permeable CO <sub>2</sub> Separation Membranes. ChemNanoMat, 2016, 2, 264-267.	2.8	24
146	Fabrication and Microstructure Tuning of a Pyrimidine-Bridged Organoalkoxysilane Membrane for CO <sub>2</sub> Separation. Industrial & Engineering Chemistry Research, 2017, 56, 1316-1326.	3.7	24
147	Selective water vapor permeation from steam/non-condensable gas mixtures via organosilica membranes at moderate-to-high temperatures. Journal of Membrane Science, 2019, 589, 117254.	8.2	24
148	Development of high-performance sub-nanoporous SiC-based membranes derived from polytitanocarbosilane. Journal of Membrane Science, 2020, 598, 117688.	8.2	24
149	Amino-decorated organosilica membranes for highly permeable CO2 capture. Journal of Membrane Science, 2020, 611, 118328.	8.2	24
150	Preparation of hollow-fiber membranes by plasma-graft filling polymerization for organic-liquid separation. Journal of Membrane Science, 2000, 170, 61-70.	8.2	23
151	Effect of divalent cations on permeate volume flux through porous titania membranes. Desalination, 2002, 147, 213-216.	8.2	23
152	Titanium phosphorus oxide membranes for proton conduction at intermediate temperatures. Solid State Ionics, 2003, 158, 343-350.	2.7	23
153	Development of Metal-doped Silica Membranes for Increased Hydrothermal Stability and Their Applications to Membrane Reactors for Steam Reforming of Methane. Journal of the Japan Petroleum Institute, 2011, 54, 277-286.	0.6	23
154	Tailoring the Separation Behavior of Polymer-Supported Organosilica Layered-Hybrid Membranes via Facile Post-Treatment Using HCl and HN <sub>3</sub> Vapors. ACS Applied Materials & Interfaces, 2016, 8, 11060-11069.	8.0	23
155	Preparation of Bridged Polysilsesquioxane Membranes from Bis[3-(triethoxysilyl)propyl]amine for Water Desalination. Bulletin of the Chemical Society of Japan, 2017, 90, 1035-1040.	3.2	23
156	Microporous Nickel-Coordinated Aminosilica Membranes for Improved Pervaporation Performance of Methanol/Toluene Separation. ACS Applied Materials & amp; Interfaces, 2021, 13, 23247-23259.	8.0	23
157	Enhanced CO 2 separation performance for tertiary amineâ€silica membranes via thermally induced local liberation of CH 3 Cl. AICHE Journal, 2018, 64, 1528-1539.	3.6	22
158	Preparation and gas permeation properties of thermally stable organosilica membranes derived by hydrosilylation. Journal of Materials Chemistry A, 2014, 2, 672-680.	10.3	21
159	Microporous membrane reactors for hydrogen production. Current Opinion in Chemical Engineering, 2015, 8, 83-88.	7.8	21
160	Nanofiltration performance of SiO2-ZrO2 membranes in aqueous solutions at high temperatures. Separation and Purification Technology, 2016, 168, 238-247.	7.9	21
161	Preparation of bridged silica RO membranes from copolymerization of bis(triethoxysilyl)ethene/(hydroxymethyl)triethoxysilane. Effects of ethenylene-bridge enhancing water permeability. Journal of Membrane Science, 2018, 546, 173-178.	8.2	21
162	Pervaporation via siliconâ€based membranes: Correlation and prediction of performance in pervaporation and gas permeation. AICHE Journal, 2021, 67, e17223.	3.6	21

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163	Permeators and continuous membrane columns with retentate recycle. Journal of Membrane Science, 1995, 98, 57-67.	8.2	20
164	Preparation of hydroxyl group containing bridged organosilica membranes for water desalination. Separation and Purification Technology, 2015, 156, 396-402.	7.9	20
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