Toshinori Tsuru

List of Publications by Year
in descending order

337	11,193	28272	51602
papers	citations	55 h-index	86 g-index

342	342	342	5473
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhanced production of butyl acetate via methanol-extracting transesterification membrane reactors using organosilica membrane: Experiment and modeling. Chemical Engineering Journal, 2022, 429, 132188.	12.7	11
2	Structural two-phase evolution of aminosilica-based silver-coordinated membranes for increased hydrogen separation. Journal of Membrane Science, 2022, 642, 119962.	8.2	11
3	Enhancement of the H2-permselectivity of a silica-zirconia composite membrane enabled by ligand-ceramic to carbon-ceramic transformation. Journal of Membrane Science, 2022, 642, 119948.	8.2	6
4	Ultrahigh permeation of CO2 capture using composite organosilica membranes. Separation and Purification Technology, 2022, 282, 120061.	7.9	11
5	Effect of fluorine doping on the network pore structure of non-porous organosilica bis(triethoxysilyl)propane (BTESP) membranes for use in molecular separation. Journal of Membrane Science, 2022, 644, 120083.	8.2	3
6	Enhancing dehydration performance of isopropanol for flexible hybrid silica composite membranes with spray-coated active layer on polymers. Separation and Purification Technology, 2022, 283, 120230.	7.9	4
7	Development of PSQ-RO membranes with high water permeability by copolymerization of bis[3-(triethoxysilyl)propyl]amine and triethoxy(3-glycidyloxypropyl)silane. Journal of Membrane Science, 2022, 644, 120162.	8.2	8
8	Reverse osmosis and pervaporation of organic liquids using organosilica membranes: Performance analysis and predictions. AICHE Journal, 2022, 68, .	3.6	12
9	High-Resolution Numerical Simulation of Microfiltration of Oil-in-Water Emulsion Permeating through a Realistic Membrane Microporous Structure Generated by Focused Ion Beam Scanning Electron Microscopy Images. Langmuir, 2022, 38, 2094-2108.	3.5	11
10	Silicon-based subnanoporous membranes with amorphous structures. , 2022, , 305-327.		1
11	Network tailoring of organosilica membranesviaaluminum doping to improve the humid-gas separation performance. RSC Advances, 2022, 12, 5834-5846.	3.6	4
12	Performance Evaluation and Simulation of a Dehumidifying Module using Perfluorosulfonic Acid Capillary Membranes. Kagaku Kogaku Ronbunshu, 2022, 48, 42-48.	0.3	0
13	Open-air plasma deposition of polymer-supported silica-based membranes for gas separation. Separation and Purification Technology, 2022, 291, 120908.	7.9	5
14	Microporous structure control of SiO2-ZrO2 composite membranes via Yttrium doping and an evaluation of thermal stability. Journal of Sol-Gel Science and Technology, 2022, 104, 566-579.	2.4	6
15	Development of Highly Water-Permeable Robust PSQ-Based RO Membranes by Introducing Hydroxyethylurea-Based Hydrophilic Water Channels. ACS Applied Materials & Interfaces, 2022, 14, 21426-21435.	8.0	4
16	Structural transformation of the nickel coordination-induced subnanoporosity of aminosilica membranes for methanol-selective, high-flux pervaporation. Journal of Membrane Science, 2022, 656, 120613.	8.2	10
17	Development of robust and high-performance polysilsesquioxane reverse osmosis membranes modified by SiO2 nanoparticles for water desalination. Separation and Purification Technology, 2022, 296, 121421.	7.9	4
18	Nanogradient Hydrophilic/Hydrophobic Organosilica Membranes Developed by Atmospheric-Pressure Plasma to Enhance Pervaporation Performance. ACS Nano, 2022, 16, 10302-10313.	14.6	12

#	Article	IF	Citations
19	Tailoring the structure of a sub-nano silica network via fluorine doping to enhance CO2 separation and evaluating CO2 separation performance under dry or wet conditions. Journal of Membrane Science, 2022, 658, 120735.	8.2	4
20	Ammonia permeation of fluorinated sulfonic acid polymer/ceramic composite membranes. Journal of Membrane Science, 2022, 658, 120718.	8.2	8
21	Hydrophilic behavior of methyl-terminated organosilica thin films modified by atmospheric-pressure water vapor plasma. Materials Letters, 2022, 325, 132841.	2.6	2
22	Transesterification membrane reactor with organosilica membrane in batch and continuous flow modes. Chemical Engineering Journal, 2022, 450, 137862.	12.7	2
23	Organic solvent reverse osmosis membranes for organic liquid mixture separation: A review. Journal of Membrane Science, 2021, 620, 118882.	8.2	65
24	Improved performance of organosilica membranes for steam recovery at moderate-to-high temperatures via the use of a hydrothermally stable intermediate layer. Journal of Membrane Science, 2021, 620, 118895.	8.2	13
25	Correlation Between Ammonia Selectivity and Temperature Dependent Functional Group Tuning of GO. IEEE Nanotechnology Magazine, 2021, 20, 129-136.	2.0	5
26	TiO₂ Coatings Via Atmospheric-Pressure Plasma-Enhanced Chemical Vapor Deposition for Enhancing the UV-Resistant Properties of Transparent Plastics. ACS Omega, 2021, 6, 1370-1377.	3.5	15
27	Facile development of microstructure-engineered, ligand-chelated SiO2â€“ZrO2 composite membranes for molecular separations. Molecular Systems Design and Engineering, 2021, 6, 429-444.	3.4	2
28	Pervaporation via siliconâ€based membranes: Correlation and prediction of performance in pervaporation and gas permeation. AICHE Journal, 2021, 67, e17223.	3.6	21
29	Hydrocarbon permeation properties through microporous fluorine-doped organosilica membranes with controlled pore sizes. Journal of Membrane Science, 2021, 619, 118787.	8.2	11
30	Multiple Amine-Contained POSS-Functionalized Organosilica Membranes for Gas Separation. Membranes, 2021, 11, 194.	3.0	6
31	Hydrothermal stability of fluorineâ€induced microporous silica membranes: Effect of steam treatment conditions. AICHE Journal, 2021, 67, e17292.	3.6	7
32	Progress in pervaporation membranes for dehydration of acetic acid. Separation and Purification Technology, 2021, 262, 118338.	7.9	56
33	Microporous Nickel-Coordinated Aminosilica Membranes for Improved Pervaporation Performance of Methanol/Toluene Separation. ACS Applied Materials & Interfaces, 2021, 13, 23247-23259.	8.0	23
34	Design of a SiOC network structure with oxidation stability and application to hydrogen separation membranes at high temperatures. Journal of Membrane Science, 2021, 625, 119147.	8.2	6
35	Pore Structure Controllability and CO2 Permeation Properties of Silica-Derived Membranes with a Dual-Network Structure. Industrial & Engineering Chemistry Research, 2021, 60, 8527-8537.	3.7	3
36	Preparation of polysilsesquioxane reverse osmosis membranes for water desalination from tris[(ethoxysilyl)alkyl]amines by solâ€gel process and interfacial polymerization. Applied Organometallic Chemistry, 2021, 35, e6374.	3.5	5

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37	Performance evaluation of water vapor permeation through perfluorosulfonic acid capillary membranes. Separation and Purification Technology, 2021, 266, 118508.	7.9	8
38	Effect of the Ti/Zr ratio on the hydrothermal and chemical stability of TiO2-ZrO2 nanofiltration membranes. Separation and Purification Technology, 2021, 274, 119060.	7.9	4
39	Steam recovery via nanoporous and subnanoporous organosilica membranes: The effects of pore structure and operating conditions. Separation and Purification Technology, 2021, 275, 119191.	7.9	5
40	Facile low-temperature route toward the development of polymer-supported silica-based membranes for gas separation via atmospheric-pressure plasma-enhanced chemical vapor deposition. Journal of Membrane Science, 2021, 638, 119709.	8.2	7
41	Analysis and prediction of water vapor permeation through perfluorosulfonic acid membranes via the solution-diffusion model in a single-membrane dehumidifier module. Separation and Purification Technology, 2021, 279, 119694.	7.9	6
42	Controlled organosilica networks via metal doping for improved dehydration membranes with layered hybrid structures. Separation and Purification Technology, 2021, 278, 119561.	7.9	5
43	Metal-induced microporous aminosilica creates a highly permeable gas-separation membrane. Materials Chemistry Frontiers, 2021, 5, 3029-3042.	5.9	16
44	Ultrafast Synthesis of Silica-Based Molecular Sieve Membranes in Dielectric Barrier Discharge at Low Temperature and Atmospheric Pressure. Journal of the American Chemical Society, 2021, 143, 35-40.	13.7	16
45	Atmospheric-pressure PECVD synthesis of polymer-supported molecular sieving silica membranes for gas separation: Effect of pore size of polymeric support. Materials Letters, 2021, , 131211.	2.6	2
46	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
47	Fineâ€tuned, molecularâ€composite, organosilica membranes for highly efficient propylene/propane separation via suitable pore size. AICHE Journal, 2020, 66, e16850.	3.6	14
48	Energy-efficient separation of organic liquids using organosilica membranes via a reverse osmosis route. Journal of Membrane Science, 2020, 597, 117758.	8.2	46
49	Development of high-performance sub-nanoporous SiC-based membranes derived from polytitanocarbosilane. Journal of Membrane Science, 2020, 598, 117688.	8.2	24
50	A carbonâ€“silicaâ€“zirconia ceramic membrane with CO₂ flow-switching behaviour promising versatile high-temperature H₂/CO₂ separation. Journal of Materials Chemistry A, 2020, 8, 23563-23573.	10.3	15
51	Evaluation of experimentally obtained permeance based on module simulation: How should permeance be evaluated?. AICHE Journal, 2020, 66, e16250.	3.6	11
52	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
53	Pervaporation removal of methanol from methanol/organic azeotropes using organosilica membranes: Experimental and modeling. Journal of Membrane Science, 2020, 610, 118284.	8.2	43
54	Experimental study and modeling of organic solvent reverse osmosis separations through organosilica membranes. AICHE Journal, 2020, 66, e16283.	3.6	11

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55	Tuning the microstructure of polycarbosilane-derived SiC(O) separation membranes via thermal-oxidative cross-linking. Separation and Purification Technology, 2020, 248, 117067.	7.9	15
56	Amino-decorated organosilica membranes for highly permeable CO2 capture. Journal of Membrane Science, 2020, 611, 118328.	8.2	24
57	Highâ€performance molecularâ€separation ceramic membranes derived from oxidative crossâ€linked polytitanocarbosilane. Journal of the American Ceramic Society, 2020, 103, 4473-4488.	3.8	19
58	Pore subnano-environment engineering of organosilica membranes for highly selective propylene/propane separation. Journal of Membrane Science, 2020, 603, 117999.	8.2	15
59	Al2O3 nanofiltration membranes fabricated from nanofiber sols: Preparation, characterization, and performance. Journal of Membrane Science, 2020, 611, 118401.	8.2	18
60	Microstructure evolution and enhanced permeation of SiC membranes derived from allylhydridopolycarbosilane. Journal of Membrane Science, 2020, 612, 118392.	8.2	18
61	Chemical-free cleaning of fouled reverse osmosis (RO) membranes derived from bis(triethoxysilyl)ethane (BTESE). Journal of Membrane Science, 2020, 601, 117919.	8.2	12
62	Pore size tuning of bis(triethoxysilyl)propane (BTESP)-derived membrane for gas separation: Effects of the acid molar ratio in the sol and of the calcination temperature. Separation and Purification Technology, 2020, 242, 116742.	7.9	8
63	Development of an acetylacetonate-modified silica-zirconia composite membrane applicable to gas separation. Journal of Membrane Science, 2020, 599, 117844.	8.2	15
64	Inorganic Porous Membranes for Separation in Organic Solvents. Membrane, 2020, 45, 171-176.	0.0	0
65	SiC mesoporous membranes for sulfuric acid decomposition at high temperatures in the iodineâ€“sulfur process. RSC Advances, 2020, 10, 41883-41890.	3.6	9
66	TiO2-ZrO2 membranes of controlled pore sizes with different Ti/Zr ratios for nanofiltration. Journal of Sol-Gel Science and Technology, 2019, 92, 12-24.	2.4	8
67	Microporous Silica Membrane Reactors. , 2019, , 127-156.		0
68	Gas Permeation Properties and Pore Size Evaluation of Microporous Silica Membranes. , 2019, , 101-126.		0
69	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
70	Vapor-permeation dehydration of isopropanol using a flexible and thin organosilica membrane with high permeance. Journal of Membrane Science, 2019, 588, 117226.	8.2	12
71	Infrared-spectroscopic porosimetry: Development and application for characterization of hundred-nanometer-thick porous thin films. Thin Solid Films, 2019, 685, 299-305.	1.8	0
72	Ceramic-Supported Polyhedral Oligomeric Silsesquioxaneâ€“Organosilica Nanocomposite Membrane for Efficient Gas Separation. Industrial & Engineering Chemistry Research, 2019, 58, 21708-21716.	3.7	11

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73	Effect of Sintering Temperature on Solâ€“Gel Synthesis of Porous Polymeric Membrane Supported Layered Hybrid Organosilica Membranes and Their Vapor Permeation Property. Kagaku Kogaku Ronbunshu, 2019, 45, 177-183.	0.3	1
74	Organosilica-Based Membranes in Gas and Liquid-Phase Separation. Membranes, 2019, 9, 107.	3.0	32
75	Evaluating the chemical stability of metal oxides in SO 3 and applications of SiO 2 â€based membranes to O 2 /SO 3 separation. Journal of the American Ceramic Society, 2019, 102, 6946-6956.	3.8	6
76	Tailoring Ultramicroporosity To Maximize CO₂ Transport within Pyrimidine-Bridged Organosilica Membranes. ACS Applied Materials & Interfaces, 2019, 11, 7164-7173.	8.0	28
77	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
78	Free glycerol removal from monoglyceride using TiO2-ZrO2 nanofiltration membranes. Separation and Purification Technology, 2019, 224, 366-372.	7.9	2
79	Molecular dynamics simulation study on the mechanisms of liquid-phase permeation in nanopores. Separation and Purification Technology, 2019, 220, 259-267.	7.9	6
80	Tailoring the molecular sieving properties and thermal stability of carbonized membranes containing polyhedral oligomeric silsesquioxane (POSS)-polyimide via the introduction of norbornene. Journal of Membrane Science, 2019, 582, 59-69.	8.2	14
81	Hydrothermal stability and permeation properties of TiO2-ZrO2 (5/5) nanofiltration membranes at high temperatures. Separation and Purification Technology, 2019, 212, 1001-1012.	7.9	16
82	Effects of Calcination Condition on the Network Structure of Triethoxysilane (TRIES) and How Siâ€“H Groups Influence Hydrophobicity Under Hydrothermal Conditions. Industrial & Engineering Chemistry Research, 2019, 58, 3867-3875.	3.7	4
83	Molecular Dynamics Simulation Study of Solid Vibration Permeation in Microporous Amorphous Silica Network Voids. Membranes, 2019, 9, 132.	3.0	7
84	Research and development on membrane IS process for hydrogen production using solar heat. International Journal of Hydrogen Energy, 2019, 44, 19141-19152.	7.1	16
85	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
86	Facile and Scalable Flow-Induced Deposition of Organosilica on Porous Polymer Supports for Reverse Osmosis Desalination. ACS Applied Materials & Interfaces, 2018, 10, 14070-14078.	8.0	17
87	Acid post-treatment of sol-gel-derived ethylene-bridged organosilica membranes and their filtration performances. Journal of Membrane Science, 2018, 556, 196-202.	8.2	9
88	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
89	Preparation of Amphotericin B-Ergosterol structures and molecular simulation of water adsorption and diffusion. Journal of Membrane Science, 2018, 545, 229-239.	8.2	10
90	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

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91	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
92	Atmospheric-Pressure Plasma-Enhanced Chemical Vapor Deposition of Hybrid Silica Membranes. Journal of Chemical Engineering of Japan, 2018, 51, 732-739.	0.6	10
93	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
94	UV-Protective TiO₂ 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
95	Silica-Based Membranes with Molecular-Net-Sieving Properties: Development and Applications. Journal of Chemical Engineering of Japan, 2018, 51, 713-725.	0.6	52
96	Preparation of Hybrid Organosilica Reverse Osmosis Membranes by Interfacial Polymerization of Bis[(trialkoxysilyl)propyl]amine. Chemistry Letters, 2018, 47, 1210-1212.	1.3	8
97	Enhanced Permeation through CO₂-Stable Dual-Inorganic Composite Membranes with Tunable Nanoarchitectured Channels. ACS Sustainable Chemistry and Engineering, 2018, 6, 8515-8524.	6.7	28
98	Atmospheric-pressure plasma-enhanced chemical vapor deposition of UV-shielding TiO2 coatings on transparent plastics. Materials Letters, 2018, 228, 479-481.	2.6	34
99	Diethylenedioxane-bridged microporous organosilica membrane for gas and water separation. Separation and Purification Technology, 2018, 207, 370-376.	7.9	13
100	Fluorine Doping of Microporous Organosilica Membranes for Pore Size Control and Enhanced Hydrophobic Properties. ACS Omega, 2018, 3, 8612-8620.	3.5	25
101	Preparation, characterization, and evaluation of TiO2-ZrO2 nanofiltration membranes fired at different temperatures. Journal of Membrane Science, 2018, 564, 691-699.	8.2	28
102	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
103	Tailoring a Thermally Stable Amorphous SiOC Structure for the Separation of Large Molecules: The Effect of Calcination Temperature on SiOC Structures and Gas Permeation Properties. ACS Omega, 2018, 3, 6369-6377.	3.5	12
104	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
105	Nano/subnano-tuning of Porous Silica Membranes and Application to Hydrogen Separation. Membrane, 2018, 43, 180-187.	0.0	0
106	Preface to the special issue for the 5th Asian Conference on Innovative Energy & Environmental Chemical Engineering (ASCON-IEEChE) 2016. Journal of Chemical Engineering of Japan, 2018, 51, 711-711.	0.6	0
107	Pyrimidine-bridged organoalkoxysilane membrane for high-efficiency CO 2 transport via mild affinity. Separation and Purification Technology, 2017, 178, 232-241.	7.9	34
108	Photo-induced solâ€“gel synthesis of polymer-supported silsesquioxane membranes. RSC Advances, 2017, 7, 7150-7157.	3.6	5

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109	Fabrication and Microstructure Tuning of a Pyrimidine-Bridged Organoalkoxysilane Membrane for CO₂ Separation. Industrial & Engineering Chemistry Research, 2017, 56, 1316-1326.	3.7	24
110	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
111	Preparation of bridged polysilsesquioxane-based membranes containing 1,2,3-triazole moieties for water desalination. Polymer Journal, 2017, 49, 401-406.	2.7	13
112	Development and permeation properties of SiO2-ZrO2 nanofiltration membranes with a MWCO of <200. Journal of Membrane Science, 2017, 535, 331-341.	8.2	19
113	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
114	Preparation of cyclic peptide nanotube structures and molecular simulation of water adsorption and diffusion. Journal of Membrane Science, 2017, 537, 101-110.	8.2	11
115	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
116	Organosilica bis(triethoxysilyl)ethane (BTESE) membranes for gas permeation (GS) and reverse osmosis (RO): The effect of preparation conditions on structure, and the correlation between gas and liquid permeation properties. Journal of Membrane Science, 2017, 526, 242-251.	8.2	15
117	Preparation of POSS-derived robust RO membranes for water desalination. Desalination, 2017, 404, 322-327.	8.2	20
118	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
119	Synthesis of a 12-membered cyclic siloxane possessing alkoxysilyl groups as a nanobuilding block and its use for preparation of gas permeable membranes. RSC Advances, 2017, 7, 48683-48691.	3.6	11
120	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
121	Water transport and ion rejection investigation for application of cyclic peptide nanotubes to forward osmosis process: A simulation study. Desalination, 2017, 424, 85-94.	8.2	16
122	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
123	Preliminary techno-economic analysis of non-commercial ceramic and organosilica membranes for hydrogen peroxide ultrapurification. Chemical Engineering Research and Design, 2017, 125, 385-397.	5.6	2
124	Effect of heat treatment on the nanoporosity of silica PECVD films elucidated by low-energy positron annihilation and ellipsometric porosimetry. Journal of Applied Physics, 2017, 122, 185304.	2.5	5
125	Preparation and Gas Permeation Properties of Fluorineâ€“Silica Membranes with Controlled Amorphous Silica Structures: Effect of Fluorine Source and Calcination Temperature on Network Size. ACS Applied Materials & Interfaces, 2017, 9, 24625-24633.	8.0	18
126	Pore size tuning of sol-gel-derived triethoxysilane (TRIES) membranes for gas separation. Journal of Membrane Science, 2017, 524, 64-72.	8.2	14

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127	Synthesis of organically bridged trialkoxysilanes bearing acetoxymethyl groups and applications to reverse osmosis membranes. Applied Organometallic Chemistry, 2017, 31, e3580.	3.5	14
128	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
129	ã€Rapid communicationsã€‘ Applying Amphotericin Bâ€“Ergosterol in Forward Osmosis : a simulation study. Membrane, 2017, 42, 250-254.	0.0	2
130	Silica Membrane Application for Pervaporation Process. , 2017, , 217-241.		4
131	Catalytic Ammonia Decomposition over High-Performance Ru/Graphene Nanocomposites for Efficient COx-Free Hydrogen Production. Catalysts, 2017, 7, 23.	3.5	32
132	Propylene/propane Permeation Properties of Metal-doped Organosilica Membranes with Controlled Network Sizes and Adsorptive Properties. Journal of the Japan Petroleum Institute, 2016, 59, 140-148.	0.6	7
133	Nanofiltration performance of SiO2-ZrO2 membranes in aqueous solutions at high temperatures. Separation and Purification Technology, 2016, 168, 238-247.	7.9	21
134	Tailoring the Separation Behavior of Polymer-Supported Organosilica Layered-Hybrid Membranes via Facile Post-Treatment Using HCl and HN₃ Vapors. ACS Applied Materials & Interfaces, 2016, 8, 11060-11069.	8.0	23
135	Enhanced decomposition of sulfur trioxide in the water-splitting iodineâ€“sulfur process via a catalytic membrane reactor. Journal of Materials Chemistry A, 2016, 4, 15316-15319.	10.3	11
136	Evaluation of non-commercial ceramic SiO2-ZrO2 and organosilica BTESE membranes in a highly oxidative medium: Performance in hydrogen peroxide. Journal of Membrane Science, 2016, 520, 740-748.	8.2	6
137	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
138	Hybrid membrane developed to tolerate harsh conditions inside desalination plant equipment. Membrane Technology, 2016, 2016, 7.	0.1	5
139	Tailoring the Subnano Silica Structure via Fluorine Doping for Development of Highly Permeable CO₂ Separation Membranes. ChemNanoMat, 2016, 2, 264-267.	2.8	24
140	Plasma-enhanced chemical vapor deposition of amorphous carbon molecular sieve membranes for gas separation. RSC Advances, 2016, 6, 59045-59049.	3.6	4
141	In Silico Evaluation of Ultrafiltration and Nanofiltration Membrane Cascades for Continuous Fractionation of Protein Hydrolysate from Tuna Processing Byproduct. Industrial & Engineering Chemistry Research, 2016, 55, 7493-7504.	3.7	8
142	Hydrogen production from energy carriers by silica-based catalytic membrane reactors. Catalysis Today, 2016, 268, 3-11.	4.4	32
143	Development of Ethenylene-Bridged Organosilica Membranes for Desalination Applications. Industrial & Engineering Chemistry Research, 2016, 55, 2183-2190.	3.7	32
144	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

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145	Effect of firing temperature on the water permeability of SiO2â€“ZrO2 membranes for nanofiltration. Journal of Membrane Science, 2016, 497, 348-356.	8.2	59
146	Chemical Vapor Deposition. , 2016, , 395-397.		0
147	Titania Membranes. , 2016, , 1906-1907.		0
148	Hybrid Silica Membranes. , 2016, , 974-975.		0
149	Ammonia Decomposition in Catalytic Membrane Reactors. , 2016, , 62-64.		0
150	Development of Membrane Separation Process for H2SO4 Decomposition. Membrane, 2016, 41, 102-107.	0.0	0
151	Poreâ€size evaluation and gas transport behaviors of microporous membranes: An experimental and theoretical study. AICHE Journal, 2015, 61, 2268-2279.	3.6	10
152	Photo-induced solâ€“gel processing for low-temperature fabrication of high-performance silsesquioxane membranes for use in molecular separation. Chemical Communications, 2015, 51, 9932-9935.	4.1	10
153	Catalytic membrane reactors for SO3 decomposition in Iodineâ€“Sulfur thermochemical cycle: A simulation study. International Journal of Hydrogen Energy, 2015, 40, 12687-12696.	7.1	18
154	Tuning the pore sizes of novel silica membranes for improved gas permeation properties via an in situ reaction between NH₃ and Siâ€“H groups. Chemical Communications, 2015, 51, 2551-2554.	4.1	9
155	Preparation and separation properties of porous norbornane-bridged silica membrane. Journal of Sol-Gel Science and Technology, 2015, 73, 365-370.	2.4	12
156	Reverse osmosis performance of layered-hybrid membranes consisting of an organosilica separation layer on polymer supports. Journal of Membrane Science, 2015, 494, 104-112.	8.2	19
157	Efficient synthesis of SiOC glasses from ethane, ethylene, and acetylene-bridged polysilsesquioxanes. Journal of Non-Crystalline Solids, 2015, 408, 137-141.	3.1	18
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