Gong-Ping Liu

List of Publications by Citations

145 papers	8,894 citations	49 h-index	91 g-index
162 ext. papers	11,129 ext. citations	9.9 avg, IF	6.82 L-index

#	Paper	IF	Citations
145	Ion sieving in graphene oxide membranes via cationic control of interlayer spacing. *Nature*, **2017**, 550, 380-383	50.4	768
144	Graphene-based membranes. *Chemical Society Reviews*, **2015**, 44, 5016-30	58.5	750
143	Two-Dimensional-Material Membranes: A New Family of High-Performance Separation Membranes. *Angewandte Chemie - International Edition*, **2016**, 55, 13384-13397	16.4	408
142	A graphene oxide membrane with highly selective molecular separation of aqueous organic solution. *Angewandte Chemie - International Edition*, **2014**, 53, 6929-32	16.4	353
141	Mixed matrix formulations with MOF molecular sieving for key energy-intensive separations. *Nature Materials*, **2018**, 17, 283-289	27	298
140	Subnanometer Two-Dimensional Graphene Oxide Channels for Ultrafast Gas Sieving. *ACS Nano*, **2016**, 10, 3398-409	16.7	254
139	UiO-66-polyether block amide mixed matrix membranes for CO2 separation. *Journal of Membrane Science*, **2016**, 513, 155-165	9.6	205
138	Hydrophobic-ZIF-71 filled PEBA mixed matrix membranes for recovery of biobutanol via pervaporation. *Journal of Membrane Science*, **2013**, 446, 181-188	9.6	203
137	2D MXene Nanofilms with Tunable Gas Transport Channels. *Advanced Functional Materials*, **2018**, 28, 1801511	15.6	197
136	Ultrathin two-dimensional MXene membrane for pervaporation desalination. *Journal of Membrane Science*, **2018**, 548, 548-558	9.6	197
135	Controllable ion transport by surface-charged graphene oxide membrane. *Nature Communications*, **2019**, 10, 1253	17.4	184
134	Membranes with Fast and Selective Gas-Transport Channels of Laminar Graphene Oxide for Efficient CO2 Capture. *Angewandte Chemie*, **2015**, 127, 588-592	3.6	172
133	Pervaporation performance of PDMS/ceramic composite membrane in acetone butanol ethanol (ABE) fermentation–PV coupled process. *Journal of Membrane Science*, **2011**, 373, 121-129	9.6	158
132	Pervaporation Membranes for Biobutanol Production. *ACS Sustainable Chemistry and Engineering*, **2014**, 2, 546-560	8.3	149
131	High-Efficiency Water-Transport Channels using the Synergistic Effect of a Hydrophilic Polymer and Graphene Oxide Laminates. *Advanced Functional Materials*, **2015**, 25, 5809-5815	15.6	142
130	Improved performance of PDMS/ceramic composite pervaporation membranes by ZSM-5 homogeneously dispersed in PDMS via a surface graft/coating approach. *Chemical Engineering Journal*, **2011**, 174, 495-503	14.7	133
129	A facile way to prepare ceramic-supported graphene oxide composite membrane via silane-graft modification. *Applied Surface Science*, **2014**, 307, 631-637	6.7	127

128	Natural gas upgrading using a fluorinated MOF with tuned H2S and CO2 adsorption selectivity. *Nature Energy*, **2018**, 3, 1059-1066	62.3	123
127	High performance ceramic hollow fiber supported PDMS composite pervaporation membrane for bio-butanol recovery. *Journal of Membrane Science*, **2014**, 450, 38-47	9.6	117
126	Enabling Fluorinated MOF-Based Membranes for Simultaneous Removal of H S and CO from Natural Gas. *Angewandte Chemie - International Edition*, **2018**, 57, 14811-14816	16.4	111
125	3D nanoporous crystals enabled 2D channels in graphene membrane with enhanced water purification performance. *Journal of Membrane Science*, **2017**, 542, 41-51	9.6	110
124	Preparation of ceramic-supported poly(vinyl alcohol)–chitosan composite membranes and their applications in pervaporation dehydration of organic/water mixtures. *Journal of Membrane Science*, **2010**, 349, 341-348	9.6	96
123	Effects of polydimethylsiloxane (PDMS) molecular weight on performance of PDMS/ceramic composite membranes. *Journal of Membrane Science*, **2011**, 375, 334-344	9.6	93
122	Unprecedented Perovskite Oxyfluoride Membranes with High-Efficiency Oxygen Ion Transport Paths for Low-Temperature Oxygen Permeation. *Advanced Materials*, **2016**, 28, 3511-5	24	92
121	Size effects of graphene oxide on mixed matrix membranes for CO2 separation. *AICHE Journal*, **2016**, 62, 2843-2852	3.6	88
120	Mixed matrix membranes with molecular-interaction-driven tunable free volumes for efficient bio-fuel recovery. *Journal of Materials Chemistry A*, **2015**, 3, 4510-4521	13	88
119	Molecular Bridges Stabilize Graphene Oxide Membranes in Water. *Angewandte Chemie - International Edition*, **2020**, 59, 1689-1695	16.4	88
118	Conformation-Controlled Molecular Sieving Effects for Membrane-Based Propylene/Propane Separation. *Advanced Materials*, **2019**, 31, e1807513	24	83
117	Nanoparticles@rGO membrane enabling highly enhanced water permeability and structural stability with preserved selectivity. *AICHE Journal*, **2017**, 63, 5054-5063	3.6	76
116	Membranes with fast and selective gas-transport channels of laminar graphene oxide for efficient CO2 capture. *Angewandte Chemie - International Edition*, **2015**, 54, 578-82	16.4	75
115	Effect of substrate on formation and nanofiltration performance of graphene oxide membranes. *Journal of Membrane Science*, **2019**, 574, 196-204	9.6	75
114	MOF-801 incorporated PEBA mixed-matrix composite membranes for CO2 capture. *Separation and Purification Technology*, **2019**, 217, 229-239	8.3	74
113	Tuning Gate-Opening of a Flexible Metal-Organic Framework for Ternary Gas Sieving Separation. *Angewandte Chemie - International Edition*, **2020**, 59, 22756-22762	16.4	73
112	Interfacial adhesion between polymer separation layer and ceramic support for composite membrane. *AICHE Journal*, **2010**, 56, 1584-1592	3.6	70
111	Spray-evaporation assembled graphene oxide membranes for selective hydrogen transport. *Separation and Purification Technology*, **2017**, 174, 126-135	8.3	69

110	Enhanced CO/CH Separation Performance of a Mixed Matrix Membrane Based on Tailored MOF-Polymer Formulations. *Advanced Science*, **2018**, 5, 1800982	13.6	67
109	Two-dimensional Ti2CTx MXene membranes with integrated and ordered nanochannels for efficient solvent dehydration. *Journal of Materials Chemistry A*, **2019**, 7, 12095-12104	13	61
108	Fabrication of MOFs/PEBA mixed matrix membranes and their application in bio-butanol production. *Separation and Purification Technology*, **2014**, 133, 40-47	8.3	58
107	Acetone-butanol-ethanol (ABE) fermentation using Clostridium acetobutylicum XY16 and in situ recovery by PDMS/ceramic composite membrane. *Bioprocess and Biosystems Engineering*, **2012**, 35, 1057-65	3.7	57
106	Artificial channels for confined mass transport at the sub-nanometre scale. *Nature Reviews Materials*, **2021**, 6, 294-312	73.3	57
105	Fabrication of graphene oxide composite membranes and their application for pervaporation dehydration of butanol. *Chinese Journal of Chemical Engineering*, **2015**, 23, 1102-1109	3.2	55
104	Pervaporation separation of n-octane/thiophene mixtures using polydimethylsiloxane/ceramic composite membranes. *Desalination*, **2010**, 258, 106-111	10.3	55
103	A ZIF-71 Hollow Fiber Membrane Fabricated by Contra-Diffusion. *ACS Applied Materials & Interfaces*, **2015**, 7, 16157-60	9.5	54
102	PEBA/ceramic hollow fiber composite membrane for high-efficiency recovery of bio-butanol via pervaporation. *Journal of Membrane Science*, **2016**, 510, 338-347	9.6	54
101	Improved ethanol recovery through mixed-matrix membrane with hydrophobic MAF-6 as filler. *Separation and Purification Technology*, **2017**, 178, 105-112	8.3	53
100	PDMS/ceramic composite membrane for pervaporation separation of acetone–butanol–ethanol (ABE) aqueous solutions and its application in intensification of ABE fermentation process. *Chemical Engineering and Processing: Process Intensification*, **2014**, 86, 162-172	3.7	53
99	Pervaporation Separation of Butanol-Water Mixtures Using Polydimethylsiloxane/Ceramic Composite Membrane. *Chinese Journal of Chemical Engineering*, **2011**, 19, 40-44	3.2	53
98	Mechanical properties and interfacial adhesion of composite membranes probed by in-situ nano-indentation/scratch technique. *Journal of Membrane Science*, **2015**, 494, 205-215	9.6	51
97	Polymer/Ceramic Composite Membranes and Their Application in Pervaporation Process. *Chinese Journal of Chemical Engineering*, **2012**, 20, 62-70	3.2	49
96	Metal-organic framework adsorbents and membranes for separation applications. *Current Opinion in Chemical Engineering*, **2018**, 20, 122-131	5.4	46
95	Hollow fiber modules with ceramic-supported PDMS composite membranes for pervaporation recovery of bio-butanol. *Separation and Purification Technology*, **2015**, 146, 24-32	8.3	45
94	Roughness-enhanced hydrophobic graphene oxide membrane for water desalination via membrane distillation. *Journal of Membrane Science*, **2020**, 611, 118364	9.6	45
93	PDMS/PVDF composite pervaporation membrane for the separation of dimethyl carbonate from a methanol solution. *Journal of Membrane Science*, **2014**, 471, 47-55	9.6	45

92	A Graphene Oxide Membrane with Highly Selective Molecular Separation of Aqueous Organic Solution. *Angewandte Chemie*, **2014**, 126, 7049-7052	3.6	45
91	Fabrication of ZIF-300 membrane and its application for efficient removal of heavy metal ions from wastewater. *Journal of Membrane Science*, **2019**, 572, 20-27	9.6	45
90	Zeolite-like MOF nanocrystals incorporated 6FDA-polyimide mixed-matrix membranes for CO2/CH4 separation. *Journal of Membrane Science*, **2018**, 565, 186-193	9.6	44
89	Novel ZIF-300 Mixed-Matrix Membranes for Efficient CO Capture. *ACS Applied Materials & Interfaces*, **2017**, 9, 38575-38583	9.5	42
88	Accelerating Membrane-based CO Separation by Soluble Nanoporous Polymer Networks Produced by Mechanochemical Oxidative Coupling. *Angewandte Chemie - International Edition*, **2018**, 57, 2816-2821	16.4	40
87	Preparation of anti-adhesion and bacterial destructive polymeric ultrafiltration membranes using modified mesoporous carbon. *Separation and Purification Technology*, **2018**, 205, 273-283	8.3	39
86	Pervaporation membrane materials: Recent trends and perspectives. *Journal of Membrane Science*, **2021**, 636, 119557	9.6	37
85	High-Performance CO2 Capture through Polymer-Based Ultrathin Membranes. *Advanced Functional Materials*, **2019**, 29, 1900735	15.6	36
84	Cysteamine-crosslinked graphene oxide membrane with enhanced hydrogen separation property. *Journal of Membrane Science*, **2020**, 595, 117568	9.6	34
83	Enhanced CO2/N2 separation performance by using dopamine/polyethyleneimine-grafted TiO2 nanoparticles filled PEBA mixed-matrix membranes. *Separation and Purification Technology*, **2019**, 214, 78-86	8.3	34
82	Facilitated water-selective permeation via PEGylation of graphene oxide membrane. *Journal of Membrane Science*, **2018**, 567, 311-320	9.6	34
81	Polyelectrolyte Functionalized Ti2CTx MXene Membranes for Pervaporation Dehydration of Isopropanol/Water Mixtures. *Industrial & Engineering Chemistry Research*, **2020**, 59, 4732-4741	3.9	33
80	Facile tailoring of the two-dimensional graphene oxide channels for gas separation. *RSC Advances*, **2016**, 6, 54281-54285	3.7	33
79	Mixed-matrix hollow fiber composite membranes comprising of PEBA and MOF for pervaporation separation of ethanol/water mixtures. *Separation and Purification Technology*, **2019**, 214, 2-10	8.3	32
78	Graphene oxide membranes supported on the ceramic hollow fibre for efficient H 2 recovery. *Chinese Journal of Chemical Engineering*, **2017**, 25, 752-759	3.2	31
77	Fabrication of surface-charged MXene membrane and its application for water desalination. *Journal of Membrane Science*, **2021**, 623, 119076	9.6	31
76	Membranen aus zweidimensionalen Materialien: eine neue Familie hochleistungsfähiger Trennmembranen. *Angewandte Chemie*, **2016**, 128, 13580-13595	3.6	30
75	Fluorinated PDMS membrane with anti-biofouling property for in-situ biobutanol recovery from fermentation-pervaporation coupled process. *Journal of Membrane Science*, **2020**, 609, 118225	9.6	29

74	6FDA-DETDA: DABE polyimide-derived carbon molecular sieve hollow fiber membranes: Circumventing unusual aging phenomena. *Journal of Membrane Science*, **2018**, 546, 197-205	9.6	29
73	Two-Dimensional-Material Membranes: Manipulating the Transport Pathway for Molecular Separation. *Accounts of Materials Research*, **2021**, 2, 114-128	7.5	29
72	Precisely Controlling Nanochannels of Graphene Oxide Membranes through Lignin-Based Cation Decoration for Dehydration of Biofuels. *ChemSusChem*, **2018**, 11, 2315-2320	8.3	28
71	Designing Biomimic Two-Dimensional Ionic Transport Channels for Efficient Ion Sieving. *ACS Nano*, **2021**, 15, 5209-5220	16.7	28
70	Pebax-Based Membrane Filled with Two-Dimensional Mxene Nanosheets for Efficient CO Capture. *Chemistry - an Asian Journal*, **2020**, 15, 2364-2370	4.5	27
69	Hyperaging Tuning of a Carbon Molecular-Sieve Hollow Fiber Membrane with Extraordinary Gas-Separation Performance and Stability. *Angewandte Chemie - International Edition*, **2019**, 58, 11700-11703	16.4	26
68	Gas permeation through double-layer graphene oxide membranes: The role of interlayer distance and pore offset. *Separation and Purification Technology*, **2019**, 209, 419-425	8.3	26
67	Ceramic Supported PDMS and PEGDA Composite Membranes for CO2 Separation. *Chinese Journal of Chemical Engineering*, **2013**, 21, 348-356	3.2	26
66	Novel Reactive Distillation□Pervaporation Coupled Process for Ethyl Acetate Production with Water Removal from Reboiler and Acetic Acid Recycle. *Industrial & Engineering Chemistry Research*, **2012**, 51, 8079-8086	3.9	26
65	Surprising plasticization benefits in natural gas upgrading using polyimide membranes. *Journal of Membrane Science*, **2020**, 593, 117430	9.6	26
64	Graphene oxide membrane for molecular separation: challenges and opportunities. *Science China Materials*, **2018**, 61, 1021-1026	7.1	25
63	Acetone□Butanol□Ethanol production using pH control strategy and immobilized cells in an integrated fermentation□Pervaporation process. *Process Biochemistry*, **2015**, 50, 614-622	4.8	25
62	Vapor transport in graphene oxide laminates and their application in pervaporation. *Current Opinion in Chemical Engineering*, **2017**, 16, 56-64	5.4	22
61	Molecular dynamics simulation of water-ethanol separation through monolayer graphene oxide membranes: Significant role of O/C ratio and pore size. *Separation and Purification Technology*, **2019**, 224, 219-226	8.3	22
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59	Surpassing Robeson Upper Limit for CO2/N2 Separation with Fluorinated Carbon Molecular Sieve Membranes. *CheM*, **2020**, 6, 631-645	16.2	22
58	Purification of Aggressive Supercritical Natural Gas Using Carbon Molecular Sieve Hollow Fiber Membranes. *Industrial & Engineering Chemistry Research*, **2017**, 56, 10482-10490	3.9	22
57	Molecularly Designed Stabilized Asymmetric Hollow Fiber Membranes for Aggressive Natural Gas Separation. *Angewandte Chemie - International Edition*, **2016**, 55, 13754-13758	16.4	22

56	A robust mixed-conducting multichannel hollow fiber membrane reactor. *AICHE Journal*, **2015**, 61, 2592-2599	3.6	21
55	Highly efficient CH4 purification by LaBTB PCP-based mixed matrix membranes. *Journal of Materials Chemistry A*, **2018**, 6, 599-606	13	21
54	Tunable dextran retention of MXene-TiO 2 mesoporous membranes by adjusting the 2D MXene content. *2D Materials*, **2018**, 5, 045003	5.9	21
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48	Ultrathin Membranes with a Polymer/Nanofiber Interpenetrated Structure for High-Efficiency Liquid Separations. *ACS Applied Materials & Interfaces*, **2019**, 11, 36717-36726	9.5	16
47	Dehydration of C2□4 alcohol/water mixtures via electrostatically enhanced graphene oxide laminar membranes. *AICHE Journal*, **2021**, 67, aic17170	3.6	16
46	Graphene-based membranes for pervaporation processes. *Chinese Journal of Chemical Engineering*, **2020**, 28, 1755-1766	3.2	15
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44	Cation-diffusion controlled formation of thin graphene oxide composite membranes for efficient ethanol dehydration. *Science China Materials*, **2019**, 62, 925-935	7.1	14
43	Recent Progress in Two-dimensional-material Membranes for Gas Separation. *Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica*, **2019**, 35, 1090-1098	3.8	14
42	In-situ recovery of bio-butanol from glycerol fermentation using PDMS/ceramic composite membrane. *Separation and Purification Technology*, **2019**, 229, 115811	8.3	13
41	Pervaporation properties of polyvinyl alcohol/ceramic composite membrane for separation of ethyl acetate/ethanol/water ternary mixtures. *Korean Journal of Chemical Engineering*, **2012**, 29, 228-234	2.8	13
40	Polydimethylsiloxane (PDMS) Composite Membrane Fabricated on the Inner Surface of a Ceramic Hollow Fiber: From Single-Channel to Multi-Channel. *Engineering*, **2020**, 6, 89-99	9.7	13
39	Preparation and characterization of Ni2(mal)2(bpy) homochiral MOF membrane. *Asia-Pacific Journal of Chemical Engineering*, **2016**, 11, 60-69	1.3	12

38	Simultaneously enhancing interfacial adhesion and pervaporation separation performance of PDMS/ceramic composite membrane via a facile substrate surface grafting approach. *AICHE Journal* , **2019**, 65, e16773	3.6	12
37	Simultaneously tuning dense skin and porous substrate of asymmetric hollow fiber membranes for efficient purification of aggressive natural gas. *AICHE Journal*, **2019**, 65, 1269-1280	3.6	12
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35	Cross-Linkable Semi-Rigid 6FDA-Based Polyimide Hollow Fiber Membranes for Sour Natural Gas Purification. *Industrial & Engineering Chemistry Research*, **2020**, 59, 5333-5339	3.9	11
34	Recent Progress in Separation Membranes and Their Fermentation Coupled Processes for Biobutanol Recovery. *Energy & Fuels*, **2020**, 34, 11962-11975	4.1	11
33	Accelerating Membrane-based CO2 Separation by Soluble Nanoporous Polymer Networks Produced by Mechanochemical Oxidative Coupling. *Angewandte Chemie*, **2018**, 130, 2866-2871	3.6	10
32	Production of alcohol-free wine and grape spirit by pervaporation membrane technology. *Food and Bioproducts Processing*, **2020**, 123, 262-273	4.9	10
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30	Natural gas purification by asymmetric membranes: An overview. *Green Energy and Environment*, **2021**, 6, 176-192	5.7	10
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28	Molecular Bridges Stabilize Graphene Oxide Membranes in Water. *Angewandte Chemie*, **2020**, 132, 1706-1712	3.6	9
27	M-gallate MOF/6FDA-polyimide mixed-matrix membranes for C2H4/C2H6 separation. *Journal of Membrane Science*, **2021**, 620, 118852	9.6	9
26	A novel membrane with heterogeneously functionalized nanocrystal layers performing blood separation and sensing synchronously. *Chemical Communications*, **2016**, 52, 12706-12709	5.8	8
25	Bola-amphiphile-imidazole embedded GO membrane with enhanced solvent dehydration properties. *Journal of Membrane Science*, **2020**, 595, 117545	9.6	7
24	Ceramic hollow fiber-supported PDMS composite membranes for oxygen enrichment from air. *Asia-Pacific Journal of Chemical Engineering*, **2016**, 11, 460-466	1.3	7
23	Molecularly Designed Stabilized Asymmetric Hollow Fiber Membranes for Aggressive Natural Gas Separation. *Angewandte Chemie*, **2016**, 128, 13958-13962	3.6	7
22	Hyperaging Tuning of a Carbon Molecular-Sieve Hollow Fiber Membrane with Extraordinary Gas-Separation Performance and Stability. *Angewandte Chemie*, **2019**, 131, 11826-11829	3.6	6
21	Recycle of ceramic substrate of PDMS/ceramic composite membranes towards alcohol-permselective pervaporation. *Journal of Membrane Science*, **2021**, 640, 119835	9.6	6

20	Simulation of cations separation through charged porous graphene membrane. *Chemical Physics Letters*, **2020**, 753, 137606	2.5	5
19	PDMS mixed-matrix membranes with molecular fillers via reactive incorporation and their application for bio-butanol recovery from aqueous solution. *Journal of Polymer Science*, **2020**, 58, 2634-2643	3.4	5
18	Membrane materials targeting carbon capture and utilization **2022**, 2, 100025		5
17	Separation of mono-/di-valent ions via charged interlayer channels of graphene oxide membranes. *Journal of Membrane Science*, **2022**, 645, 120212	9.6	5
16	Enhanced Selective Hydrogen Permeation through Graphdiyne Membrane: A Theoretical Study. *Membranes*, **2020**, 10,	3.8	4
15	Recent advances in facilitated transport membranes for olefin/paraffin separation. *Discover Chemical Engineering*, **2021**, 1, 1		4
14	Theoretical study on Janus graphene oxide membrane for water transport. *Frontiers of Chemical Science and Engineering*, **2021**, 15, 913-921	4.5	4
13	High-flux corrugated PDMS composite membrane fabricated by using nanofiber substrate. *Journal of Membrane Science*, **2022**, 647, 120336	9.6	3
12	Two-dimensional MXene hollow fiber membrane for divalent ions exclusion from water. *Chinese Journal of Chemical Engineering*, **2021**, 41, 260-260	3.2	3
11	MIL-101(Cr) Microporous Nanocrystals Intercalating Graphene Oxide Membrane for Efficient Hydrogen Purification. *Chemistry - an Asian Journal*, **2021**, 16, 3162-3169	4.5	3
10	Efficient separation of methanol/dimethyl carbonate mixtures by UiO-66 MOF incorporated chitosan mixed-matrix membrane. *Journal of Membrane Science*, **2022**, 652, 120473	9.6	2
9	Graphene oxide membrane regulated by surface charges and interlayer channels for selective transport of monovalent ions over divalent ions. *Separation and Purification Technology*, **2022**, 291, 120938	8.2	2
8	Conducting Membranes: Unprecedented Perovskite Oxyfluoride Membranes with High-Efficiency Oxygen Ion Transport Paths for Low-Temperature Oxygen Permeation (Adv. Mater. 18/2016). *Advanced Materials*, **2016**, 28, 3510-3510	24	1
7	Efficient separation of (C1–C2) alcohol solutions by graphyne membranes: A molecular simulation study. *Journal of Membrane Science*, **2021**, 120139	9.6	1
6	Chapter 2:Graphene-based Membranes. *RSC Nanoscience and Nanotechnology*, **2018**, 14-42		1
5	Benchmark CO2 separation achieved by highly fluorinated nanoporous molecular sieve membranes from nonporous precursor via in situ cross-linking. *Journal of Membrane Science*, **2021**, 638, 119698	9.6	1
4	Methanol/dimethyl carbonate separation using graphene oxide membrane via cationic control of molecular transport channels. *Journal of Membrane Science*, **2022**, 650, 120457	9.6	0
3	A Separation-Sensing Membrane Performing Precise Real-Time Serum Analysis During Blood Drawing. *Angewandte Chemie*, **2020**, 132, 18860-18867	3.6	

2 Ceramic-Supported Organic Composite Membranes for Gas Separation **2017**, 59-95

1 Innenrücktitelbild: Membranes with Fast and Selective Gas-Transport Channels of Laminar Graphene Oxide for Efficient CO2 Capture (Angew. Chem. 2/2015). *Angewandte Chemie*, **2015**, 127, 707-707 36