

# Joaquin Coronas

## List of Publications by Citations

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244  
papers

11,656  
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58  
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97  
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258  
ext. papers

12,960  
ext. citations

6.5  
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6.65  
L-index

#	Paper	IF	Citations
244	Metal-organic framework based mixed matrix membranes: a solution for highly efficient CO <sub>2</sub> capture?. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 2421-54	58.5	627
243	High flux thin film nanocomposite membranes based on metal-organic frameworks for organic solvent nanofiltration. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 15201-8	16.4	553
242	Metal organic framework based mixed matrix membranes: An increasingly important field of research with a large application potential. <i>Microporous and Mesoporous Materials</i> , <b>2013</b> , 166, 67-78	5.3	399
241	Practical Approach to Zeolitic Membranes and Coatings: State of the Art, Opportunities, Barriers, and Future Perspectives. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 2829-2844	9.6	296
240	Functionalized flexible MOFs as fillers in mixed matrix membranes for highly selective separation of CO <sub>2</sub> from CH <sub>4</sub> at elevated pressures. <i>Chemical Communications</i> , <b>2011</b> , 47, 9522-4	5.8	296
239	CAF@ZIF-8: one-step encapsulation of caffeine in MOF. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 5016-21	9.5	255
238	Catalytic reactors based on porous ceramic membranes. <i>Catalysis Today</i> , <b>1999</b> , 51, 377-389	5.3	237
237	Combination of MOFs and zeolites for mixed-matrix membranes. <i>ChemPhysChem</i> , <b>2011</b> , 12, 2781-5	3.2	196
236	Metal Organic Framework Crystals in Mixed-Matrix Membranes: Impact of the Filler Morphology on the Gas Separation Performance. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 3154-3163	15.6	185
235	Separations Using Zeolite Membranes. <i>Separation and Purification Reviews</i> , <b>1999</b> , 28, 127-177		182
234	Characterization and permeation properties of ZSM-5 tubular membranes. <i>AIChE Journal</i> , <b>1997</b> , 43, 1797-1812	3.18	180
233	Mixed matrix membranes comprising glassy polymers and dispersed mesoporous silica spheres for gas separation. <i>Journal of Membrane Science</i> , <b>2011</b> , 368, 100-109	9.6	163
232	Mesoporous silica sphere-polysulfone mixed matrix membranes for gas separation. <i>Langmuir</i> , <b>2009</b> , 25, 5903-9	4	162
231	Separation of CO <sub>2</sub> /N <sub>2</sub> mixtures using MFI-type zeolite membranes. <i>AIChE Journal</i> , <b>2004</b> , 50, 127-135	3.6	135
230	NH <sub>2</sub> -MIL-53(Al) and NH <sub>2</sub> -MIL-101(Al) in sulfur-containing copolyimide mixed matrix membranes for gas separation. <i>Separation and Purification Technology</i> , <b>2013</b> , 111, 72-81	8.3	129
229	Separations of C <sub>4</sub> and C <sub>6</sub> Isomers in ZSM-5 Tubular Membranes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1998</b> , 37, 166-176	3.9	129
228	ZIF-8 continuous membrane on porous polysulfone for hydrogen separation. <i>Journal of Membrane Science</i> , <b>2014</b> , 464, 119-126	9.6	122

227	Ordered mesoporous silica-(ZIF-8) core-shell spheres. <i>Chemical Communications</i> , <b>2012</b> , 48, 9388-90	5.8	119
226	Gas separation with mixed matrix membranes obtained from MOF UiO-66-graphite oxide hybrids. <i>Journal of Membrane Science</i> , <b>2017</b> , 526, 205-211	9.6	115
225	Sonocrystallization of zeolitic imidazolate frameworks (ZIF-7, ZIF-8, ZIF-11 and ZIF-20). <i>CrystEngComm</i> , <b>2012</b> , 14, 3103	3.3	114
224	Continuous zeolite membrane reactor for esterification of ethanol and acetic acid. <i>Chemical Engineering Journal</i> , <b>2007</b> , 131, 35-39	14.7	107
223	State-of-the-Art in Zeolite Membrane Reactors. <i>Topics in Catalysis</i> , <b>2004</b> , 29, 29-44	2.3	107
222	Influence of ZIF-8 particle size in the performance of polybenzimidazole mixed matrix membranes for pre-combustion CO <sub>2</sub> capture and its validation through interlaboratory test. <i>Journal of Membrane Science</i> , <b>2016</b> , 515, 45-53	9.6	105
221	Use of zeolite films to improve the selectivity of reactive gas sensors. <i>Catalysis Today</i> , <b>2003</b> , 82, 179-185	5.3	104
220	Towards the dehydration of ethanol using pervaporation cross-linked poly(vinyl alcohol)/graphene oxide membranes. <i>Journal of Membrane Science</i> , <b>2019</b> , 582, 423-434	9.6	101
219	The use of zeolite films in small-scale and micro-scale applications. <i>Chemical Engineering Science</i> , <b>2004</b> , 59, 4879-4885	4.4	100
218	Metal-organic framework membranes on the inner-side of a polymeric hollow fiber by microfluidic synthesis. <i>Journal of Membrane Science</i> , <b>2015</b> , 476, 277-285	9.6	96
217	Layered silicates by swelling of AMH-3 and nanocomposite membranes. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 552-5	16.4	93
216	Enhanced gas separation performance of 6FDA-DAM based mixed matrix membranes by incorporating MOF UiO-66 and its derivatives. <i>Journal of Membrane Science</i> , <b>2018</b> , 558, 64-77	9.6	92
215	Mixed matrix membranes comprising silica-(ZIF-8) core-shell spheres with ordered mesoporous porosity for natural- and bio-gas upgrading. <i>Journal of Membrane Science</i> , <b>2014</b> , 452, 184-192	9.6	90
214	HKUST-1 MOF: A matrix to synthesize CuO and CuO@FeO <sub>2</sub> nanoparticle catalysts for CO oxidation. <i>Chemical Engineering Journal</i> , <b>2012</b> , 195-196, 180-187	14.7	89
213	Hollow silicalite-1 sphere-polymer mixed matrix membranes for gas separation. <i>Separation and Purification Technology</i> , <b>2011</b> , 77, 137-145	8.3	89
212	Present and future synthesis challenges for zeolites. <i>Chemical Engineering Journal</i> , <b>2010</b> , 156, 236-242	14.7	89
211	Beyond the H <sub>2</sub> /CO <sub>2</sub> upper bound: one-step crystallization and separation of nano-sized ZIF-11 by centrifugation and its application in mixed matrix membranes. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 6549-6556	13	85
210	Synthesis and characterisation of MOF/ionic liquid/chitosan mixed matrix membranes for CO <sub>2</sub> /N <sub>2</sub> separation. <i>RSC Advances</i> , <b>2015</b> , 5, 102350-102361	3.7	84

209	Mixed matrix membranes for gas separation by combination of silica MCM-41 and MOF NH <sub>2</sub> -MIL-53(Al) in glassy polymers. <i>Microporous and Mesoporous Materials</i> , <b>2014</b> , 192, 23-28	5.3	81
208	Methane oxidative coupling using porous ceramic membrane reactorsII. Reaction studies. <i>Chemical Engineering Science</i> , <b>1994</b> , 49, 2015-2025	4.4	81
207	Accelerating the controlled synthesis of metal-organic frameworks by a microfluidic approach: a nanoliter continuous reactor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 9405-10	9.5	79
206	Pervaporation and membrane reactor performance of polyimide based mixed matrix membranes containing MOF HKUST-1. <i>Chemical Engineering Science</i> , <b>2015</b> , 124, 37-44	4.4	77
205	Pervaporation of water/ethanol mixtures through polyimide based mixed matrix membranes containing ZIF-8, ordered mesoporous silica and ZIF-8-silica core-shell spheres. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2015</b> , 90, 669-677	3.5	75
204	Mixed matrix membranes comprising MOFs and porous silicate fillers prepared via spin coating for gas separation. <i>Chemical Engineering Science</i> , <b>2014</b> , 107, 66-75	4.4	74
203	Removal of pollutants from indoor air using zeolite membranes. <i>Journal of Membrane Science</i> , <b>2004</b> , 240, 159-166	9.6	72
202	Coupling of reaction and separation at the microscopic level: esterification processes in a H-ZSM-5 membrane reactor. <i>Chemical Engineering Science</i> , <b>2002</b> , 57, 1557-1562	4.4	71
201	Combination of ordered mesoporous silica MCM-41 and layered titanosilicate JDF-L1 fillers for 6FDA-based copolyimide mixed matrix membranes. <i>Journal of Membrane Science</i> , <b>2013</b> , 431, 163-170	9.6	70
200	Thin-Film Nanocomposite Membrane with the Minimum Amount of MOF by the Langmuir-Schaefer Technique for Nanofiltration. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 1278-1287	9.5	69
199	Crystallization in THF: the possibility of one-pot synthesis of mixed matrix membranes containing MOF MIL-68(Al). <i>CrystEngComm</i> , <b>2013</b> , 15, 9483	3.3	69
198	Controlled deposition of MOFs by dip-coating in thin film nanocomposite membranes for organic solvent nanofiltration. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2018</b> , 59, 8-16	6.3	68
197	On the molecular mechanisms for the H <sub>2</sub> /CO separation performance of zeolite imidazolate framework two-layered membranes. <i>Chemical Science</i> , <b>2017</b> , 8, 325-333	9.4	67
196	Development of mixed matrix membranes based on zeolite Nu-6(2) for gas separation. <i>Microporous and Mesoporous Materials</i> , <b>2008</b> , 115, 85-92	5.3	65
195	Use of membranes in fischer-tropsch reactors. <i>Studies in Surface Science and Catalysis</i> , <b>2000</b> , 389-394	1.8	65
194	MOF nanoparticles of MIL-68(Al), MIL-101(Cr) and ZIF-11 for thin film nanocomposite organic solvent nanofiltration membranes. <i>RSC Advances</i> , <b>2016</b> , 6, 90417-90426	3.7	65
193	Fabrication and gas separation properties of polybenzimidazole (PBI)/nanoporous silicates hybrid membranes. <i>Journal of Membrane Science</i> , <b>2008</b> , 316, 145-152	9.6	64
192	Copolyimide mixed matrix membranes with oriented microporous titanosilicate JDF-L1 sheet particles. <i>Journal of Membrane Science</i> , <b>2011</b> , 370, 131-140	9.6	63

191	Separation of hydrocarbons from natural gas using silicalite membranes. <i>Separation and Purification Technology</i> , <b>2001</b> , 25, 275-286	8.3	60
190	High selectivity ZIF-93 hollow fiber membranes for gas separation. <i>Chemical Communications</i> , <b>2015</b> , 51, 11283-5	5.8	59
189	Metal organic framework synthesis in the presence of surfactants: towards hierarchical MOFs?. <i>CrystEngComm</i> , <b>2015</b> , 17, 1693-1700	3.3	59
188	Synthesis and characterization of ZSM-5 coatings onto cordierite honeycomb supports. <i>Applied Catalysis A: General</i> , <b>2003</b> , 253, 257-269	5.1	59
187	Synthesis and characterisation of titanosilicate ETS-10 membranes. <i>Microporous and Mesoporous Materials</i> , <b>2004</b> , 67, 79-86	5.3	58
186	Synthesis, characterization and separation properties of a composite mordenite/ZSM-5/chabazite hydrophilic membrane. <i>Journal of Membrane Science</i> , <b>1998</b> , 149, 99-114	9.6	57
185	A semi-continuous method for the synthesis of NaA zeolite membranes on tubular supports. <i>Journal of Membrane Science</i> , <b>2004</b> , 244, 141-150	9.6	57
184	Preparation, characterization and pervaporation performance of mordenite membranes. <i>Journal of Membrane Science</i> , <b>2003</b> , 216, 135-147	9.6	57
183	Synthesis of MTBE in zeolite membrane reactors. <i>Applied Catalysis A: General</i> , <b>2000</b> , 200, 201-210	5.1	57
182	Pervaporation-Assisted Esterification Reactions by Means of Mixed Matrix Membranes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 15998-16011	3.9	57
181	Characterization of zeolite membranes by temperature programmed permeation and step desorption. <i>Journal of Membrane Science</i> , <b>2002</b> , 195, 125-138	9.6	56
180	High-pressure CO <sub>2</sub> /CH <sub>4</sub> separation of Zr-MOFs based mixed matrix membranes. <i>Separation and Purification Technology</i> , <b>2020</b> , 230, 115858	8.3	55
179	Separation of alcohols and alcohols/O <sub>2</sub> mixtures using zeolite MFI membranes. <i>Journal of Membrane Science</i> , <b>1998</b> , 142, 97-109	9.6	54
178	Enhancement of CO <sub>2</sub> /CH <sub>4</sub> separation performances of 6FDA-based co-polyimides mixed matrix membranes embedded with UiO-66 nanoparticles. <i>Separation and Purification Technology</i> , <b>2018</b> , 192, 465-474	8.3	53
177	Chemocatalysis of sugars to produce lactic acid derivatives on zeolitic imidazolate frameworks. <i>Journal of Catalysis</i> , <b>2016</b> , 334, 60-67	7.3	53
176	Use of a Ceramic Membrane Reactor for the Oxidative Dehydrogenation of Ethane to Ethylene and Higher Hydrocarbons. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1995</b> , 34, 4229-4234	3.9	52
175	Gas detection with SnO <sub>2</sub> sensors modified by zeolite films. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 124, 99-110	8.5	51
174	Preparation of Pt/ZSM-5 films on stainless steel microreactors. <i>Catalysis Today</i> , <b>2007</b> , 125, 2-10	5.3	49

173	On the effect of morphological features on the properties of MFI zeolite membranes. <i>Microporous and Mesoporous Materials</i> , <b>2003</b> , 60, 99-110	5.3	49
172	Preparation of MFI type tubular membranes by steam-assisted crystallization. <i>Microporous and Mesoporous Materials</i> , <b>2001</b> , 50, 195-200	5.3	49
171	Microwave-assisted hydrothermal rapid synthesis of capillary MFI-type zeolite/ceramic membranes for pervaporation application. <i>Journal of Membrane Science</i> , <b>2010</b> , 355, 28-35	9.6	48
170	Synthesis and adsorption properties of hollow silicalite-1 spheres. <i>Microporous and Mesoporous Materials</i> , <b>2008</b> , 112, 561-572	5.3	48
169	Metal-organic framework MIL-101(Cr) based mixed matrix membranes for esterification of ethanol and acetic acid in a membrane reactor. <i>Renewable Energy</i> , <b>2016</b> , 88, 12-19	8.1	47
168	Mixed matrix membranes based on 6FDA polyimide with silica and zeolite microsphere dispersed phases. <i>AIChE Journal</i> , <b>2015</b> , 61, 4481-4490	3.6	47
167	Development of ceramic membrane reactors with a non-uniform permeation pattern. Application to methane oxidative coupling. <i>Chemical Engineering Science</i> , <b>1994</b> , 49, 4749-4757	4.4	47
166	Increased Selectivity in CO <sub>2</sub> /CH <sub>4</sub> Separation with Mixed-Matrix Membranes of Polysulfone and Mixed-MOFs MIL-101(Cr) and ZIF-8. <i>European Journal of Inorganic Chemistry</i> , <b>2016</b> , 2016, 4363-4367	2.3	47
165	Ultrathin permselective membranes: the latent way for efficient gas separation.. <i>RSC Advances</i> , <b>2020</b> , 10, 12653-12670	3.7	46
164	The template role of caffeine in its one-step encapsulation in MOF NH-MIL-88B(Fe). <i>Journal of Materials Chemistry B</i> , <b>2014</b> , 2, 1144-1151	7.3	45
163	Mordenite and ZSM-5 hydrophilic tubular membranes for the separation of gas phase mixtures. <i>Catalysis Today</i> , <b>2000</b> , 56, 221-227	5.3	44
162	Simultaneous use of MOFs MIL-101(Cr) and ZIF-11 in thin film nanocomposite membranes for organic solvent nanofiltration. <i>Dalton Transactions</i> , <b>2017</b> , 46, 6244-6252	4.3	43
161	Conversion of glucose to lactic acid derivatives with mesoporous Sn-MCM-41 and microporous titanosilicates. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2014</b> , 89, 1344-1350	3.5	43
160	Insight into the crystal synthesis, activation and application of ZIF-20. <i>RSC Advances</i> , <b>2011</b> , 1, 917	3.7	43
159	Graphene oxide filled polyimide membranes in pervaporative separation of azeotropic methanol/MTBE mixtures. <i>Separation and Purification Technology</i> , <b>2019</b> , 224, 265-272	8.3	41
158	On the chemical filler/polymer interaction of nano- and micro-sized ZIF-11 in PBI mixed matrix membranes and their application for H <sub>2</sub> /CO <sub>2</sub> separation. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 14334-14341	13.3	41
157	Exfoliated Titanosilicate Material UZAR-S1 Obtained from JDF-L1. <i>European Journal of Inorganic Chemistry</i> , <b>2010</b> , 2010, 159-163	2.3	41
156	Preparation and Characterization of Titanosilicate Ag-ETS-10 for Propylene and Propane Adsorption. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 4702-4709	3.8	41

155	MOF/polymer enhanced compatibility: post-annealed zeolite imidazolate framework membranes inside polyimide hollow fibers. <i>RSC Advances</i> , <b>2016</b> , 6, 5881-5889	3.7	40
154	Tuning the separation properties of zeolitic imidazolate framework core-shell structures via post-synthetic modification. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 25601-25608	13	40
153	Using Hansen solubility parameters to study the encapsulation of caffeine in MOFs. <i>Organic and Biomolecular Chemistry</i> , <b>2015</b> , 13, 1724-31	3.9	40
152	Preparation of mordenite membranes for pervaporation of water-ethanol mixtures. <i>Desalination</i> , <b>2002</b> , 148, 25-29	10.3	40
151	Solventless Synthesis of MOFs at High Pressure. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 3788-3785	38	38
150	Preparation and characterization of ITQ-29/polysulfone mixed-matrix membranes for gas separation: Effect of zeolite composition and crystal size. <i>Chemical Engineering Science</i> , <b>2012</b> , 73, 116-122	4.4	37
149	Development and application of micromachined Pd/SnO <sub>2</sub> gas sensors with zeolite coatings. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 133, 435-441	8.5	37
148	Development of QCM sensors modified by AlPO <sub>4</sub> -18 films. <i>Sensors and Actuators B: Chemical</i> , <b>2006</b> , 117, 143-150	8.5	37
147	Use of zeolite membrane reactors for selectivity enhancement: application to the liquid-phase oligomerization of i-butene. <i>Catalysis Today</i> , <b>2001</b> , 67, 127-138	5.3	37
146	Characterisation of LaOCl sensing materials using CO <sub>2</sub> -TPD, XRD, TEM and XPS. <i>Sensors and Actuators B: Chemical</i> , <b>2005</b> , 109, 38-43	8.5	36
145	Encapsulation of essential oils in porous silica and MOFs for trichloroisocyanuric acid tablets used for water treatment in swimming pools. <i>Chemical Engineering Journal</i> , <b>2016</b> , 292, 28-34	14.7	35
144	Chiral Imprinting with Amino Acids of Ordered Mesoporous Silica Exhibiting Enantioselectivity after Calcination. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 1280-1287	9.6	35
143	Preparation of ITQ-29 (Al-free zeolite A) membranes. <i>Microporous and Mesoporous Materials</i> , <b>2008</b> , 110, 303-309	5.3	35
142	PBI mixed matrix hollow fiber membrane: Influence of ZIF-8 filler over H <sub>2</sub> /CO <sub>2</sub> separation performance at high temperature and pressure. <i>Separation and Purification Technology</i> , <b>2020</b> , 237, 116347	8.3	35
141	Langmuir-Blodgett Films of the Metal-Organic Framework MIL-101(Cr): Preparation, Characterization, and CO <sub>2</sub> Adsorption Study Using a QCM-Based Setup. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 16486-92	9.5	34
140	New strategies based on microfluidics for the synthesis of metal-organic frameworks and their membranes. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 5485-5506	13	33
139	Mixed matrix membranes for gas separation with special nanoporous fillers. <i>Desalination and Water Treatment</i> , <b>2011</b> , 27, 42-47		33
138	Catalytic partial oxidation of methane to synthesis gas in a ceramic membrane reactor. <i>Catalysis Letters</i> , <b>1995</b> , 30, 189-199	2.8	33

137	Few-layer graphene by assisted-exfoliation of graphite with layered silicate. <i>Carbon</i> , <b>2014</b> , 73, 99-105	10.4	32
136	The use of post-synthetic treatments to improve the pervaporation performance of mordenite membranes. <i>Journal of Membrane Science</i> , <b>2006</b> , 270, 32-41	9.6	32
135	Preparation of highly accessible mordenite coatings on ceramic monoliths at loadings exceeding 50% by weight. <i>Chemical Communications</i> , <b>2004</b> , 528-9	5.8	32
134	Greener processes in the preparation of thin film nanocomposite membranes with diverse metal-organic frameworks for organic solvent nanofiltration. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2019</b> , 77, 344-354	6.3	31
133	Study on the reproducibility of mordenite tubular membranes used in the dehydration of ethanol. <i>Journal of Membrane Science</i> , <b>2007</b> , 299, 166-173	9.6	31
132	Separation of propylene/propane mixtures by titanosilicate ETS-10 membranes prepared in one-step seeded hydrothermal synthesis. <i>Journal of Membrane Science</i> , <b>2008</b> , 311, 326-335	9.6	29
131	Ultraporous Thin Film ZIF-8/Polyamide Membrane for H <sub>2</sub> /CO <sub>2</sub> Separation at High Temperature without Using Sweep Gas. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1800647	4.6	28
130	Microporous titanosilicate ETS-10 membrane for high pressure CO <sub>2</sub> separation. <i>Separation and Purification Technology</i> , <b>2010</b> , 73, 8-12	8.3	28
129	110th Anniversary: Polyamide/Metal-Organic Framework Bilayered Thin Film Composite Membranes for the Removal of Pharmaceutical Compounds from Water. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 4222-4230	3.9	27
128	Asymmetric polybenzimidazole membranes with thin selective skin layer containing ZIF-8 for H <sub>2</sub> /CO <sub>2</sub> separation at pre-combustion capture conditions. <i>Journal of Membrane Science</i> , <b>2018</b> , 563, 427-434	8.6	27
127	Melt Compounding of Swollen Titanosilicate JDF-L1 with Polysulfone To Obtain Mixed Matrix Membranes for H <sub>2</sub> /CH <sub>4</sub> Separation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 1901-1907	3.9	27
126	Layered titanosilicates JDF-L1 and AM-4 for biocide applications. <i>Applied Clay Science</i> , <b>2012</b> , 56, 30-35	5.2	27
125	Adsorption of amino acids (ALA, CYS, HIS, MET) on zeolites: fourier transform infrared and Raman spectroscopy investigations. <i>Astrobiology</i> , <b>2011</b> , 11, 409-18	3.7	27
124	Synthesis, Characterization, and Separation Properties of Sn and Ti Silicate Membranes. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 2472-2479	9.6	27
123	Fabrication of ultrathin films containing the metal organic framework Fe-MIL-88B-NH <sub>2</sub> by the Langmuir-Blodgett technique. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2015</b> , 470, 161-170	5.1	26
122	Atomic Resolution Analysis of Microporous Titanosilicate ETS-10 through Aberration Corrected STEM Imaging. <i>ChemCatChem</i> , <b>2013</b> , 5, 2595-2598	5.2	26
121	Microplastics in marine environment: a review on sources, classification, and potential remediation by membrane technology. <i>Environmental Science: Water Research and Technology</i> , <b>2021</b> , 7, 243-258	4.2	26
120	Structural Contraction of Zeolitic Imidazolate Frameworks: Membrane Application on Porous Metallic Hollow Fibers for Gas Separation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 20787-20796	9.5	25



119	One-step encapsulation of caffeine in SBA-15 type and non-ordered silicas. <i>Chemical Engineering Journal</i> , <b>2013</b> , 223, 714-721	14.7	25
118	Use of Zeolite Membrane Reactors for the Combustion of VOCs Present in Air at Low Concentrations. <i>Chemical Engineering Research and Design</i> , <b>2005</b> , 83, 295-301	5.5	25
117	Thin supported MOF based mixed matrix membranes of Pebax $\square$ 1657 for biogas upgrade. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 312-319	3.6	24
116	Real-time monitoring of breathing of MIL-53(Al) by environmental SEM. <i>Microporous and Mesoporous Materials</i> , <b>2015</b> , 203, 17-23	5.3	24
115	Ultrathin Composite Polymeric Membranes for CO /N Separation with Minimum Thickness and High CO Permeance. <i>ChemSusChem</i> , <b>2017</b> , 10, 4014-4017	8.3	24
114	Seeded synthesis of layered titanosilicate JDF-L1. <i>Materials Letters</i> , <b>2009</b> , 63, 113-115	3.3	24
113	Preparation and characterization of two-layered mordenite-ZSM-5 bi-functional membranes. <i>Microporous and Mesoporous Materials</i> , <b>2006</b> , 93, 318-324	5.3	24
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