

Joaquin Coronas

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

244
papers

11,656
citations

58
h-index

97
g-index

258
ext. papers

12,960
ext. citations

6.5
avg, IF

6.65
L-index

#	Paper	IF	Citations
244	Mesoporous Sn-In-MCM-41 Catalysts for the Selective Sugar Conversion to Methyl Lactate and Comparative Life Cycle Assessment with the Biochemical Process.. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 2868-2880	8.3	1
243	Single-walled carbon nanotube buckypaper as support for highly permeable double layer polyamide/zeolitic imidazolate framework in nanofiltration processes. <i>Journal of Membrane Science</i> , 2022 , 652, 120490	9.6	1
242	A new relevant membrane application: CO2 direct air capture (DAC). <i>Chemical Engineering Journal</i> , 2022 , 137047	14.7	4
241	Solventless synthesis of ZIF-L and ZIF-8 with hydraulic press and high temperature. <i>Microporous and Mesoporous Materials</i> , 2021 , 328, 111487	5.3	6
240	An Evolving Insight into Metal Organic Framework-Functionalized Membranes for Water and Wastewater Treatment and Resource Recovery. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 6869-6907	3.9	11
239	Synthesis of amorphous magnesium silicates with different SiO2:MgO molar ratios at laboratory and pilot plant scales. <i>Microporous and Mesoporous Materials</i> , 2021 , 317, 110946	5.3	3
238	Applications of metal-organic frameworks and zeolites to virus detection and control: biosensors, barriers, and biocomposites. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2021 , 647, 1532-1541	1.3	0
237	Conversion of sugars to methyl lactate with exfoliated layered stannosilicate UZAR-S4. <i>Catalysis Today</i> , 2021 , 362, 90-96	5.3	4
236	Green Preparation of Thin Films of Polybenzimidazole on Flat and Hollow Fiber Supports: Application to Hydrogen Separation. <i>ChemSusChem</i> , 2021 , 14, 952-960	8.3	5
235	Microplastics in marine environment: a review on sources, classification, and potential remediation by membrane technology. <i>Environmental Science: Water Research and Technology</i> , 2021 , 7, 243-258	4.2	26
234	Vapor phase interfacial polymerization: a method to synthesize thin film composite membranes without using organic solvents. <i>Green Chemistry</i> , 2021 , 23, 2449-2456	10	12
233	Polyamide-MIL-101(Cr) Thin Films Synthesized on Either the Outer or Inner Surfaces of a Polysulfone Hollow Fiber for Water Nanofiltration. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 7773-7783	9.5	2
232	Phase inversion method for the preparation of Pebax 3533 thin film membranes for CO2/N2 separation. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105624	6.8	3
231	Sonocrystallisation of ZIF-8 in water with high excess of ligand: Effects of frequency, power and sonication time. <i>Ultrasonics Sonochemistry</i> , 2021 , 76, 105616	8.9	1
230	Pre-combustion gas separation by ZIF-8-polybenzimidazole mixed matrix membranes in the form of hollow fibres-long-term experimental study. <i>Royal Society Open Science</i> , 2021 , 8, 210660	3.3	1
229	Theoretical and practical approach to the dealcoholization of water-ethanol mixtures and red wine by osmotic distillation. <i>Separation and Purification Technology</i> , 2021 , 270, 118793	8.3	4
228	Synthesis of nanoparticles of zeolitic imidazolate framework ZIF-94 using inorganic deprotonators. <i>New Journal of Chemistry</i> , 2020 , 44, 20449-20457	3.6	1

227	Nanofiltration thin-film composite membrane on either the internal or the external surface of a polysulfone hollow fiber. <i>AIChE Journal</i> , 2020 , 66, e16970	3.6	5
226	Pebax \square 1041 supported membranes with carbon nanotubes prepared via phase inversion for CO/N separation. <i>Dalton Transactions</i> , 2020 , 49, 2905-2913	4.3	2
225	Sized-Controlled ZIF-8 Nanoparticle Synthesis from Recycled Mother Liquors: Environmental Impact Assessment. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 2973-2980	8.3	23
224	High performance MIL-101(Cr)@6FDA-mPD and MOF-199@6FDA-mPD mixed-matrix membranes for CO/CH separation. <i>Dalton Transactions</i> , 2020 , 49, 1822-1829	4.3	11
223	Ultrathin permselective membranes: the latent way for efficient gas separation.. <i>RSC Advances</i> , 2020 , 10, 12653-12670	3.7	46
222	Functionalized graphene-based polyamide thin film nanocomposite membranes for organic solvent nanofiltration. <i>Separation and Purification Technology</i> , 2020 , 247, 116995	8.3	22
221	Ultrathin Films of Porous Metal-Organic Polyhedra for Gas Separation. <i>Chemistry - A European Journal</i> , 2020 , 26, 143-147	4.8	10
220	PBI mixed matrix hollow fiber membrane: Influence of ZIF-8 filler over H ₂ /CO ₂ separation performance at high temperature and pressure. <i>Separation and Purification Technology</i> , 2020 , 237, 116347	8.3	35
219	Polyamide/MOF bilayered thin film composite hollow fiber membranes with tuned MOF thickness for water nanofiltration. <i>Separation and Purification Technology</i> , 2020 , 236, 116265	8.3	17
218	Metal organic framework top-down and bottom-up patterning techniques. <i>Dalton Transactions</i> , 2020 , 49, 15139-15148	4.3	5
217	High-pressure CO ₂ /CH ₄ separation of Zr-MOFs based mixed matrix membranes. <i>Separation and Purification Technology</i> , 2020 , 230, 115858	8.3	55
216	Challenges and Directions for Green Chemical Engineering Role of Nanoscale Materials 2020 , 1-18		7
215	The Effect of Hydrogen Peroxide on the Synthesis of Terephthalate-Based Metal-Organic Frameworks. <i>ChemPlusChem</i> , 2020 , 85, 68-73	2.8	2
214	Antioxidant activity of the essential oil of citrus limon before and after its encapsulation in amorphous SiO ₂ . <i>Scientific African</i> , 2019 , 6, e00181	1.7	13
213	Poly(ether--amide) copolymer membrane for CO/N separation: the influence of the casting solution concentration on its morphology, thermal properties and gas separation performance. <i>Royal Society Open Science</i> , 2019 , 6, 190866	3.3	14
212	Nanosheets of MIL-53(Al) applied in membranes with improved CO/N and CO/CH selectivities. <i>Dalton Transactions</i> , 2019 , 48, 3392-3403	4.3	17
211	Thin supported MOF based mixed matrix membranes of Pebax \square 1657 for biogas upgrade. <i>New Journal of Chemistry</i> , 2019 , 43, 312-319	3.6	24
210	Tin-Carboxylate MOFs for Sugar Transformation into Methyl Lactate. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 2624-2629	2.3	13

209	Graphene oxide Filled polyimide membranes in pervaporative separation of azeotropic methanol/MTBE mixtures. <i>Separation and Purification Technology</i> , 2019 , 224, 265-272	8.3	41
208	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> , 2019 , 77, 344-354	6.3	31
207	Polymer engineering by blending PIM-1 and 6FDA-DAM for ZIF-8 containing mixed matrix membranes applied to CO2 separations. <i>Separation and Purification Technology</i> , 2019 , 224, 456-462	8.3	17
206	Mathematical modeling of temperature and pressure effects on permeability, diffusivity and solubility in polymeric and mixed matrix membranes. <i>Chemical Engineering Science</i> , 2019 , 205, 58-73	4.4	23
205	Towards the dehydration of ethanol using pervaporation cross-linked poly(vinyl alcohol)/graphene oxide membranes. <i>Journal of Membrane Science</i> , 2019 , 582, 423-434	9.6	101
204	110th Anniversary: Polyamide/MetalOrganic Framework Bilayered Thin Film Composite Membranes for the Removal of Pharmaceutical Compounds from Water. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 4222-4230	3.9	27
203	Synthesis and Characterization of Covalent Triazine Framework CTF-1@Polysulfone Mixed Matrix Membranes and Their Gas Separation Studies. <i>Frontiers in Chemistry</i> , 2019 , 7, 693	5	13
202	Solvent-Free Encapsulation at High Pressure with Carboxylate-Based MOFs. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 29-36	2.3	5
201	Supercritical CO2 encapsulation of bioactive molecules in carboxylate based MOFs. <i>Journal of CO2 Utilization</i> , 2019 , 30, 38-47	7.6	18
200	The fabrication of ultrathin films and their gas separation performance from polymers of intrinsic microporosity with two-dimensional (2D) and three-dimensional (3D) chain conformations. <i>Journal of Colloid and Interface Science</i> , 2019 , 536, 474-482	9.3	15
199	Thin-Film Nanocomposite Membrane with the Minimum Amount of MOF by the Langmuir-Schaefer Technique for Nanofiltration. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1278-1287	9.5	69
198	Microfluidic Synthesis of MOFs and MOF-Based Membranes 2018 , 479-515		3
197	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> , 2018 , 558, 64-77	9.6	92
196	Polymer-Stabilized Percolation Membranes Based on Nanosized Zeolitic Imidazolate Frameworks for H2/CO2 Separation. <i>ChemNanoMat</i> , 2018 , 4, 698-703	3.5	2
195	New strategies based on microfluidics for the synthesis of metalOrganic frameworks and their membranes. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5485-5506	13	33
194	Enhancement of CO2/CH4 separation performances of 6FDA-based co-polyimides mixed matrix membranes embedded with UiO-66 nanoparticles. <i>Separation and Purification Technology</i> , 2018 , 192, 465-474	8.3	53
193	Controlled deposition of MOFs by dip-coating in thin film nanocomposite membranes for organic solvent nanofiltration. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 59, 8-16	6.3	68
192	Reactive gas atmospheres as a tool for the synthesis of MOFs: the creation of a metal hybrid fumarate with a controlled Fe/Al composition profile. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 14352-14358	13	5

191	Ultraparpermeable Thin Film ZIF-8/Polyamide Membrane for H ₂ /CO ₂ Separation at High Temperature without Using Sweep Gas. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800647	4.6	28
190	Synthesis of ZIF-93/11 Hybrid Nanoparticles via Post-Synthetic Modification of ZIF-93 and Their Use for H ₂ /CO Separation. <i>Chemistry - A European Journal</i> , 2018 , 24, 11211-11219	4.8	17
189	Asymmetric polybenzimidazole membranes with thin selective skin layer containing ZIF-8 for H ₂ /CO ₂ separation at pre-combustion capture conditions. <i>Journal of Membrane Science</i> , 2018 , 563, 427-434	4.6	27
188	Homogeneous thin coatings of zeolitic imidazolate frameworks prepared on quartz crystal sensors for CO ₂ adsorption. <i>Microporous and Mesoporous Materials</i> , 2018 , 272, 44-52	5.3	11
187	Hydrogen Separation at High Temperature with Dense and Asymmetric Membranes Based on PIM-EA(H ₂)-TB/PBI Blends. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 16909-16916	3.9	20
186	Pervaporation-Assisted Esterification Reactions by Means of Mixed Matrix Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 15998-16011	3.9	57
185	HKUST-1 coatings on laser-microperforated brass supports for water adsorption. <i>CrystEngComm</i> , 2017 , 19, 1470-1478	3.3	6
184	Sequential amine functionalization inducing structural transition in an aldehyde-containing zeolitic imidazolate framework: application to gas separation membranes. <i>CrystEngComm</i> , 2017 , 19, 1545-1554	3.3	23
183	Enhancement of Growth of MOF MIL-68(Al) Thin Films on Porous Alumina Tubes Using Different Linking Agents. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 2532-2540	2.3	14
182	Structural Contraction of Zeolitic Imidazolate Frameworks: Membrane Application on Porous Metallic Hollow Fibers for Gas Separation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 20787-20796	9.5	25
181	Simultaneous use of MOFs MIL-101(Cr) and ZIF-11 in thin film nanocomposite membranes for organic solvent nanofiltration. <i>Dalton Transactions</i> , 2017 , 46, 6244-6252	4.3	43
180	Gas separation with mixed matrix membranes obtained from MOF UiO-66-graphite oxide hybrids. <i>Journal of Membrane Science</i> , 2017 , 526, 205-211	9.6	115
179	Ultrathin Composite Polymeric Membranes for CO ₂ /N ₂ Separation with Minimum Thickness and High CO ₂ Permeance. <i>ChemSusChem</i> , 2017 , 10, 4014-4017	8.3	24
178	A new zeolitic hydroxymethylimidazolate material and its use in mixed matrix membranes based on 6FDA-DAM for gas separation. <i>Journal of Membrane Science</i> , 2017 , 544, 88-97	9.6	7
177	Tuning the separation properties of zeolitic imidazolate framework core-shell structures via post-synthetic modification. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 25601-25608	13	40
176	On the molecular mechanisms for the H ₂ /CO separation performance of zeolite imidazolate framework two-layered membranes. <i>Chemical Science</i> , 2017 , 8, 325-333	9.4	67
175	Comparison of porosity assessment techniques for low-cost ceramic membranes. <i>Boletin De La Sociedad Espanola De Ceramica Y Vidrio</i> , 2017 , 56, 29-38	1.9	10
174	On the chemical filler-polymer interaction of nano- and micro-sized ZIF-11 in PBI mixed matrix membranes and their application for H ₂ /CO ₂ separation. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 14334-14341	13	41

173	Solventless Synthesis of MOFs at High Pressure. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 3780-3785	3.8	38
172	Langmuir-Blodgett Films of the Metal-Organic Framework MIL-101(Cr): Preparation, Characterization, and CO ₂ Adsorption Study Using a QCM-Based Setup. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 16486-92	9.5	34
171	Synthesis, structure and characterization of a layered coordination polymer based on Zn(II) and 6-(methylmercapto)purine. <i>RSC Advances</i> , 2016 , 6, 260-268	3.7	8
170	Adenine interaction with and adsorption on Fe-ZSM-5 zeolites: A prebiotic chemistry study using different techniques. <i>Microporous and Mesoporous Materials</i> , 2016 , 226, 493-504	5.3	10
169	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> , 2016 , 292, 28-34	14.7	35
168	Chemocatalysis of sugars to produce lactic acid derivatives on zeolitic imidazolate frameworks. <i>Journal of Catalysis</i> , 2016 , 334, 60-67	7.3	53
167	Synthesis and gas adsorption properties of mesoporous silica-NH ₂ -MIL-53(Al) core-shell spheres. <i>Microporous and Mesoporous Materials</i> , 2016 , 225, 116-121	5.3	22
166	MOF-polymer enhanced compatibility: post-annealed zeolite imidazolate framework membranes inside polyimide hollow fibers. <i>RSC Advances</i> , 2016 , 6, 5881-5889	3.7	40
165	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> , 2016 , 88, 12-19	8.1	47
164	Increased Selectivity in CO ₂ /CH ₄ Separation with Mixed-Matrix Membranes of Polysulfone and Mixed-MOFs MIL-101(Cr) and ZIF-8. <i>European Journal of Inorganic Chemistry</i> , 2016 , 2016, 4363-4367	2.3	47
163	Metal Organic Framework Crystals in Mixed-Matrix Membranes: Impact of the Filler Morphology on the Gas Separation Performance. <i>Advanced Functional Materials</i> , 2016 , 26, 3154-3163	15.6	185
162	Interactive Thermal Effects on Metal-Organic Framework Polymer Composite Membranes. <i>Chemistry - A European Journal</i> , 2016 , 22, 9533-6	4.8	15
161	Influence of ZIF-8 particle size in the performance of polybenzimidazole mixed matrix membranes for pre-combustion CO ₂ capture and its validation through interlaboratory test. <i>Journal of Membrane Science</i> , 2016 , 515, 45-53	9.6	105
160	MOF nanoparticles of MIL-68(Al), MIL-101(Cr) and ZIF-11 for thin film nanocomposite organic solvent nanofiltration membranes. <i>RSC Advances</i> , 2016 , 6, 90417-90426	3.7	65
159	Metal-organic framework based mixed matrix membranes: a solution for highly efficient CO ₂ capture?. <i>Chemical Society Reviews</i> , 2015 , 44, 2421-54	58.5	627
158	Beyond the H ₂ /CO ₂ 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> , 2015 , 3, 6549-6556	13	85
157	Activation of giant silicalite-1 monocrystals combining rapid thermal processing and ozone calcination. <i>RSC Advances</i> , 2015 , 5, 18035-18040	3.7	6
156	Synthesis of layered titanosilicate JDF-L1 for fabrication of composite polyamide 6 film. <i>Applied Clay Science</i> , 2015 , 118, 151-157	5.2	7

155	Synthesis and characterisation of MOF/ionic liquid/chitosan mixed matrix membranes for CO ₂ /N ₂ separation. <i>RSC Advances</i> , 2015 , 5, 102350-102361	3.7	84
154	Insight into ETS-10 synthesis for the preparation of mixed matrix membranes for CO ₂ /CH ₄ gas separation. <i>RSC Advances</i> , 2015 , 5, 102392-102398	3.7	2
153	Metal-organic framework membranes on the inner-side of a polymeric hollow fiber by microfluidic synthesis. <i>Journal of Membrane Science</i> , 2015 , 476, 277-285	9.6	96
152	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> , 2015 , 90, 669-677	3.5	75
151	Pervaporation and membrane reactor performance of polyimide based mixed matrix membranes containing MOF HKUST-1. <i>Chemical Engineering Science</i> , 2015 , 124, 37-44	4.4	77
150	Real-time monitoring of breathing of MIL-53(Al) by environmental SEM. <i>Microporous and Mesoporous Materials</i> , 2015 , 203, 17-23	5.3	24
149	Mixed matrix membranes based on 6FDA polyimide with silica and zeolite microsphere dispersed phases. <i>AIChE Journal</i> , 2015 , 61, 4481-4490	3.6	47
148	High selectivity ZIF-93 hollow fiber membranes for gas separation. <i>Chemical Communications</i> , 2015 , 51, 11283-5	5.8	59
147	Fabrication of ultrathin films containing the metal organic framework Fe-MIL-88B-NH ₂ by the Langmuir-Blodgett technique. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015 , 470, 161-170	5.1	26
146	Using Hansen solubility parameters to study the encapsulation of caffeine in MOFs. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 1724-31	3.9	40
145	Metal organic framework synthesis in the presence of surfactants: towards hierarchical MOFs?. <i>CrystEngComm</i> , 2015 , 17, 1693-1700	3.3	59
144	The silanization reaction of an organically modified synthetic layered silicate and its use as synergistic filler additive for tire tread compounds 2015 , 567-573		
143	Mixed matrix membranes comprising MOFs and porous silicate fillers prepared via spin coating for gas separation. <i>Chemical Engineering Science</i> , 2014 , 107, 66-75	4.4	74
142	Few-layer graphene by assisted-exfoliation of graphite with layered silicate. <i>Carbon</i> , 2014 , 73, 99-105	10.4	32
141	The template role of caffeine in its one-step encapsulation in MOF NH-MIL-88B(Fe). <i>Journal of Materials Chemistry B</i> , 2014 , 2, 1144-1151	7.3	45
140	ZIF-8 continuous membrane on porous polysulfone for hydrogen separation. <i>Journal of Membrane Science</i> , 2014 , 464, 119-126	9.6	122
139	Mixed matrix membranes comprising silica-(ZIF-8) core-shell spheres with ordered mesoporous structure for natural- and bio-gas upgrading. <i>Journal of Membrane Science</i> , 2014 , 452, 184-192	9.6	90
138	Conversion of glucose to lactic acid derivatives with mesoporous Sn-MCM-41 and microporous titanosilicates. <i>Journal of Chemical Technology and Biotechnology</i> , 2014 , 89, 1344-1350	3.5	43

137	ZIF-8 micromembranes for gas separation prepared on laser-perforated brass supports. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 11177-11184	13	18
136	Development of exfoliated layered stannosilicate for hydrogen adsorption. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 13180-13188	6.7	10
135	Synthesis and Characterization of ETS-10/Chitosan Nanocomposite Membranes for Pervaporation. <i>Separation Science and Technology</i> , 2014 , 49, 1903-1909	2.5	20
134	Mixed matrix membranes for gas separation by combination of silica MCM-41 and MOF NH ₂ -MIL-53(Al) in glassy polymers. <i>Microporous and Mesoporous Materials</i> , 2014 , 192, 23-28	5.3	81
133	Chitosan feasibility to retain retinal stem cell phenotype and slow proliferation for retinal transplantation. <i>BioMed Research International</i> , 2014 , 2014, 287896	3	4
132	Separation of H ₂ and CO ₂ Containing Mixtures with Mixed Matrix Membranes Based on Layered Materials. <i>Current Organic Chemistry</i> , 2014 , 18, 2351-2363	1.7	20
131	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> , 2013 , 431, 163-170	9.6	70
130	Crystallization in THF: the possibility of one-pot synthesis of mixed matrix membranes containing MOF MIL-68(Al). <i>CrystEngComm</i> , 2013 , 15, 9483	3.3	69
129	Melt Compounding of Swollen Titanosilicate JDF-L1 with Polysulfone To Obtain Mixed Matrix Membranes for H ₂ /CH ₄ Separation. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 1901-1907	3.9	27
128	Accelerating the controlled synthesis of metal-organic frameworks by a microfluidic approach: a nanoliter continuous reactor. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 9405-10	9.5	79
127	High flux thin film nanocomposite membranes based on metal-organic frameworks for organic solvent nanofiltration. <i>Journal of the American Chemical Society</i> , 2013 , 135, 15201-8	16.4	553
126	One-step encapsulation of caffeine in SBA-15 type and non-ordered silicas. <i>Chemical Engineering Journal</i> , 2013 , 223, 714-721	14.7	25
125	Atomic Resolution Analysis of Microporous Titanosilicate ETS-10 through Aberration Corrected STEM Imaging. <i>ChemCatChem</i> , 2013 , 5, 2595-2598	5.2	26
124	NH ₂ -MIL-53(Al) and NH ₂ -MIL-101(Al) in sulfur-containing copolyimide mixed matrix membranes for gas separation. <i>Separation and Purification Technology</i> , 2013 , 111, 72-81	8.3	129
123	Metal organic framework based mixed matrix membranes: An increasingly important field of research with a large application potential. <i>Microporous and Mesoporous Materials</i> , 2013 , 166, 67-78	5.3	399
122	Nanoarchitectures based on layered titanosilicates supported on glass fibers: application to hydrogen storage. <i>Langmuir</i> , 2013 , 29, 7449-55	4	22
121	Exfoliated zeolite Nu-6(2) as filler for 6FDA-based copolyimide mixed matrix membranes. <i>Journal of Membrane Science</i> , 2012 , 411-412, 146-152	9.6	20
120	Laser control of zeolite nucleation. <i>ChemPhysChem</i> , 2012 , 13, 736-40	3.2	8

119	Synergy Gas Separation Effects When Using Fillers of Different Natures (MOFs and zeolites) in the Same Mixed Matrix Membrane. <i>Procedia Engineering</i> , 2012 , 44, 2118-2120		5
118	The Impact of MOF Flexibility Using an Amino Functionalized MOF in Mixed Matrix Membranes for CO ₂ Separation. <i>Procedia Engineering</i> , 2012 , 44, 2121-2123		4
117	(ZIF-8)-Based Materials for the Preparation of Mixed Matrix Membranes. <i>Procedia Engineering</i> , 2012 , 44, 136-139		2
116	Insight into the synthesis and characterization of zeolite millimeter-sized crystals. <i>CrystEngComm</i> , 2012 , 14, 6016	3-3	5
115	Ordered mesoporous silica-(ZIF-8) core-shell spheres. <i>Chemical Communications</i> , 2012 , 48, 9388-90	5-8	119
114	CAF@ZIF-8: one-step encapsulation of caffeine in MOF. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 5016-21	9-5	255
113	Sonocrystallization of zeolitic imidazolate frameworks (ZIF-7, ZIF-8, ZIF-11 and ZIF-20). <i>CrystEngComm</i> , 2012 , 14, 3103	3-3	114
112	HKUST-1 MOF: A matrix to synthesize CuO and CuO@TeO ₂ nanoparticle catalysts for CO oxidation. <i>Chemical Engineering Journal</i> , 2012 , 195-196, 180-187	14-7	89
111	Layered titanosilicates JDF-L1 and AM-4 for biocide applications. <i>Applied Clay Science</i> , 2012 , 56, 30-35	5-2	27
110	Practical Approach to Zeolitic Membranes and Coatings: State of the Art, Opportunities, Barriers, and Future Perspectives. <i>Chemistry of Materials</i> , 2012 , 24, 2829-2844	9-6	296
109	L- and D-proline adsorption by chiral ordered mesoporous silica. <i>Langmuir</i> , 2012 , 28, 6638-44	4	21
108	Adsorption of adenine and thymine on zeolites: FT-IR and EPR spectroscopy and X-ray diffractometry and SEM studies. <i>Origins of Life and Evolution of Biospheres</i> , 2012 , 42, 19-29	1-5	20
107	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> , 2012 , 73, 116-122	4-4	37
106	Mixed matrix membranes for gas separation with special nanoporous fillers. <i>Desalination and Water Treatment</i> , 2011 , 27, 42-47		33
105	Adsorption of amino acids (ALA, CYS, HIS, MET) on zeolites: Fourier transform infrared and Raman spectroscopy investigations. <i>Astrobiology</i> , 2011 , 11, 409-18	3-7	27
104	Chiral Imprinting with Amino Acids of Ordered Mesoporous Silica Exhibiting Enantioselectivity after Calcination. <i>Chemistry of Materials</i> , 2011 , 23, 1280-1287	9-6	35
103	Structural study on the Al distribution in zeolites Nu-6(1) and Nu-6(2). <i>Microporous and Mesoporous Materials</i> , 2011 , 145, 211-216	5-3	5
102	Hierarchical silicalite-1 structures based on pyrolyzed materials. <i>Materials Letters</i> , 2011 , 65, 3124-3127	3-3	10

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