

Beatriz Zornoza

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52 papers	3,612 citations	29 h-index	54 g-index
54 ext. papers	3,986 ext. citations	6.4 avg, IF	5.46 L-index

#	Paper	IF	Citations
52	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
51	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
50	Functionalized flexible MOFs as fillers in mixed matrix membranes for highly selective separation of CO ₂ from CH ₄ at elevated pressures. <i>Chemical Communications</i> , 2011 , 47, 9522-4	5.8	296
49	Visualizing MOF Mixed Matrix Membranes at the Nanoscale: Towards Structure-Performance Relationships in CO ₂ /CH ₄ Separation Over NH ₂ -MIL-53(Al)@PI. <i>Advanced Functional Materials</i> , 2014 , 24, 249-256	15.6	236
48	Combination of MOFs and zeolites for mixed-matrix membranes. <i>ChemPhysChem</i> , 2011 , 12, 2781-5	3.2	196
47	Mixed matrix membranes comprising glassy polymers and dispersed mesoporous silica spheres for gas separation. <i>Journal of Membrane Science</i> , 2011 , 368, 100-109	9.6	163
46	Mesoporous silica sphere-polysulfone mixed matrix membranes for gas separation. <i>Langmuir</i> , 2009 , 25, 5903-9	4	162
45	Ordered mesoporous silica-(ZIF-8) core-shell spheres. <i>Chemical Communications</i> , 2012 , 48, 9388-90	5.8	119
44	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
43	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
42	Mixed matrix membranes comprising silica-(ZIF-8) core-shell spheres with ordered mesoporousness for natural- and bio-gas upgrading. <i>Journal of Membrane Science</i> , 2014 , 452, 184-192	9.6	90
41	Hollow silicalite-1 sphere-polymer mixed matrix membranes for gas separation. <i>Separation and Purification Technology</i> , 2011 , 77, 137-145	8.3	89
40	Selective release of phenols from apple skin: Mass transfer kinetics during solvent and enzyme-assisted extraction. <i>Separation and Purification Technology</i> , 2008 , 63, 620-627	8.3	89
39	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
38	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
37	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
36	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

35	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
34	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
33	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
32	Enhancement of CO ₂ /CH ₄ 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
31	Chemocatalysis of sugars to produce lactic acid derivatives on zeolitic imidazolate frameworks. <i>Journal of Catalysis</i> , 2016 , 334, 60-67	7.3	53
30	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
29	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
28	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
27	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
26	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
25	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
24	Mixed matrix membranes for gas separation with special nanoporous fillers. <i>Desalination and Water Treatment</i> , 2011 , 27, 42-47		33
23	Ultrapervaporation 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
22	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	8.6	27
21	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
20	Thin supported MOF based mixed matrix membranes of Pebax 1657 for biogas upgrade. <i>New Journal of Chemistry</i> , 2019 , 43, 312-319	3.6	24
19	Ultrathin Composite Polymeric Membranes for CO /N Separation with Minimum Thickness and High CO Permeance. <i>ChemSusChem</i> , 2017 , 10, 4014-4017	8.3	24
18	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

17	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
16	Advances in Hydrogen Separation and Purification with Membrane Technology 2013 , 245-268		20
15	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
14	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
13	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
12	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
11	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
10	Tin-Carboxylate MOFs for Sugar Transformation into Methyl Lactate. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 2624-2629	2.3	13
9	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
8	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
7	Characterization of the polymer/particle interphase in composite materials by molecular probing. <i>Polymer</i> , 2020 , 205, 122792	3.9	10
6	Metal-Organic Frameworks: Visualizing MOF Mixed Matrix Membranes at the Nanoscale: Towards Structure-Performance Relationships in CO ₂ /CH ₄ Separation Over NH ₂ -MIL-53(Al)@PI (Adv. Funct. Mater. 2/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 268-268	15.6	4
5	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
4	Polymer-Stabilized Percolation Membranes Based on Nanosized Zeolitic Imidazolate Frameworks for H ₂ /CO ₂ Separation. <i>ChemNanoMat</i> , 2018 , 4, 698-703	3.5	2
3	Inside Cover: Combination of MOFs and Zeolites for Mixed-Matrix Membranes (ChemPhysChem 15/2011). <i>ChemPhysChem</i> , 2011 , 12, 2678-2678	3.2	2
2	Study of Melamine-Formaldehyde/Phase Change Material Microcapsules for the Preparation of Polymer Films by Extrusion.. <i>Membranes</i> , 2022 , 12,	3.8	2
1	Influence of solvent, Lewis acid-Base complex, and nanoparticles on the morphology and gas separation properties of polysulfone membranes. <i>Polymer Engineering and Science</i> , 2021 , 61, 1931-1942 ^{2,3}		