

Beatriz Zornoza

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/7149659/beatriz-zornoza-publications-by-year.pdf>

Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

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	Study of Melamine-Formaldehyde/Phase Change Material Microcapsules for the Preparation of Polymer Films by Extrusion.. <i>Membranes</i> , 2022 , 12,	3.8	2
51	Influence of solvent, Lewis acidBase 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}		
50	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
49	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}	8.3	35
48	Characterization of the polymer/particle interphase in composite materials by molecular probing. <i>Polymer</i> , 2020 , 205, 122792	3.9	10
47	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
46	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
45	Tin-Carboxylate MOFs for Sugar Transformation into Methyl Lactate. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 2624-2629	2.3	13
44	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
43	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
42	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
41	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
40	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
39	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
38	Ultrapervious 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
37	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
36	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}	8.6	27

35	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
34	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
33	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
32	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
31	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
30	Chemocatalysis of sugars to produce lactic acid derivatives on zeolitic imidazolate frameworks. <i>Journal of Catalysis</i> , 2016 , 334, 60-67	7.3	53
29	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
28	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
27	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
26	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
25	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
24	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
23	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
22	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
21	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
20	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
19	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
18	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

17	Mixed matrix membranes comprising silica-(ZIF-8) core-shell spheres with ordered mesopores for natural- and bio-gas upgrading. <i>Journal of Membrane Science</i> , 2014 , 452, 184-192	9.6	90
16	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
15	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
14	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
13	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
12	Advances in Hydrogen Separation and Purification with Membrane Technology 2013 , 245-268		20
11	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
10	Ordered mesoporous silica-(ZIF-8) core-shell spheres. <i>Chemical Communications</i> , 2012 , 48, 9388-90	5.8	119
9	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
8	Mixed matrix membranes for gas separation with special nanoporous fillers. <i>Desalination and Water Treatment</i> , 2011 , 27, 42-47		33
7	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
6	Combination of MOFs and zeolites for mixed-matrix membranes. <i>ChemPhysChem</i> , 2011 , 12, 2781-5	3.2	196
5	Inside Cover: Combination of MOFs and Zeolites for Mixed-Matrix Membranes (ChemPhysChem 15/2011). <i>ChemPhysChem</i> , 2011 , 12, 2678-2678	3.2	2
4	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
3	Hollow silicalite-1 sphere-polymer mixed matrix membranes for gas separation. <i>Separation and Purification Technology</i> , 2011 , 77, 137-145	8.3	89
2	Mesoporous silica sphere-polysulfone mixed matrix membranes for gas separation. <i>Langmuir</i> , 2009 , 25, 5903-9	4	162
1	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