

# Bibiana Comesaña-Gándara

## List of Publications by Year in descending order

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24  
papers

1,346  
citations

516215

16  
h-index

610482

24  
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24  
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24  
docs citations

24  
times ranked

1195  
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced methods for analysis of mixed gas diffusion in polymeric membranes. <i>Journal of Membrane Science</i> , 2022, 648, 120356.	4.1	10
2	Gas Permeability, Fractional Free Volume and Molecular Kinetic Diameters: The Effect of Thermal Rearrangement on ortho-hydroxy Polyamide Membranes Loaded with a Porous Polymer Network. <i>Membranes</i> , 2022, 12, 200.	1.4	5
3	Polymer Membranes for Gas Separation. <i>Membranes</i> , 2022, 12, 207.	1.4	10
4	Biodegradable Solvents: A Promising Tool to Recover Proteins from Microalgae. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2391.	1.3	7
5	Upgrading of raw biogas using membranes based on the ultrapermeable polymer of intrinsic microporosity PIM-TMN-Trip. <i>Journal of Membrane Science</i> , 2021, 618, 118694.	4.1	23
6	Imputation of missing gas permeability data for polymer membranes using machine learning. <i>Journal of Membrane Science</i> , 2021, 627, 119207.	4.1	37
7	Synthesis and gas permeation properties of tetraoxidethianthrene-based polymers of intrinsic microporosity. <i>Journal of Materials Chemistry A</i> , 2021, 9, 2840-2849.	5.2	17
8	Correlating Gas Permeability and Young's Modulus during the Physical Aging of Polymers of Intrinsic Microporosity Using Atomic Force Microscopy. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 5381-5391.	1.8	25
9	Recycling Plastic Waste for Environmental Remediation in Water Purification and CO <sub>2</sub> Capture. <i>ACS Applied Polymer Materials</i> , 2020, 2, 2586-2593.	2.0	22
10	Flue gas purification with membranes based on the polymer of intrinsic microporosity PIM-TMN-Trip. <i>Separation and Purification Technology</i> , 2020, 242, 116814.	3.9	14
11	The origin of size-selective gas transport through polymers of intrinsic microporosity. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20121-20126.	5.2	63
12	Redefining the Robeson upper bounds for CO <sub>2</sub> /CH <sub>4</sub> and CO <sub>2</sub> /N <sub>2</sub> separations using a series of ultrapermeable benzotriptycene-based polymers of intrinsic microporosity. <i>Energy and Environmental Science</i> , 2019, 12, 2733-2740.	15.6	509
13	Gas sorption in polymers of intrinsic microporosity: The difference between solubility coefficients determined via time-lag and direct sorption experiments. <i>Journal of Membrane Science</i> , 2019, 570-571, 522-536.	4.1	29
14	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.	5.0	20
15	Synthesis and properties of new aromatic polyimides containing spirocyclic structures. <i>Polymer</i> , 2018, 137, 283-292.	1.8	26
16	Temperature Dependence of Gas Permeation and Diffusion in Triptycene-Based Ultrapermeable Polymers of Intrinsic Microporosity. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 36475-36482.	4.0	58
17	Determination of Gas Transport Coefficients of Mixed Gases in 6FDA-TMPDA Polyimide by NMR Spectroscopy. <i>Macromolecules</i> , 2017, 50, 3590-3597.	2.2	11
18	Polymer ultrapermeability from the inefficient packing of 2D chains. <i>Nature Materials</i> , 2017, 16, 932-937.	13.3	261

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19	Sorption, diffusion, and permeability of humid gases and aging of thermally rearranged (TR) polymer membranes from a novel ortho-hydroxypolyimide. <i>Journal of Membrane Science</i> , 2017, 542, 439-455.	4.1	22
20	Gas separation membranes made through thermal rearrangement of ortho-methoxypolyimides. <i>RSC Advances</i> , 2015, 5, 102261-102276.	1.7	21
21	New aromatic polyamides and polyimides having an adamantane bulky group. <i>Materials Today Communications</i> , 2015, 5, 23-31.	0.9	36
22	Thermally rearranged polybenzoxazoles and poly(benzoxazole-co-imide)s from ortho-hydroxyamine monomers for high performance gas separation membranes. <i>Journal of Membrane Science</i> , 2015, 493, 329-339.	4.1	35
23	Insight into ETS-10 synthesis for the preparation of mixed matrix membranes for CO <sub>2</sub> /CH <sub>4</sub> gas separation. <i>RSC Advances</i> , 2015, 5, 102392-102398.	1.7	5
24	Thermally rearranged polybenzoxazoles membranes with biphenyl moieties: Monomer isomeric effect. <i>Journal of Membrane Science</i> , 2014, 450, 369-379.	4.1	80