

# Paola Bernardo

## List of Publications by Year in descending order

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50  
papers

4,968  
citations

186265

28  
h-index

214800

47  
g-index

54  
all docs

54  
docs citations

54  
times ranked

3494  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Efficient Polymer Molecular Sieve for Membrane Gas Separations. <i>Science</i> , 2013, 339, 303-307.	12.6	884
2	Triptycene Induced Enhancement of Membrane Gas Selectivity for Microporous Träger's Base Polymers. <i>Advanced Materials</i> , 2014, 26, 3526-3531.	21.0	347
3	Gas permeation parameters of mixed matrix membranes based on the polymer of intrinsic microporosity PIM-1 and the zeolitic imidazolate framework ZIF-8. <i>Journal of Membrane Science</i> , 2013, 427, 48-62.	8.2	312
4	A Spirobifluorene-Based Polymer of Intrinsic Microporosity with Improved Performance for Gas Separation. <i>Advanced Materials</i> , 2012, 24, 5930-5933.	21.0	306
5	Nanoporous Organic Polymer/Cage Composite Membranes. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1253-1256.	13.8	263
6	Polymer ultrapermeability from the inefficient packing of 2D chains. <i>Nature Materials</i> , 2017, 16, 932-937.	27.5	261
7	Polymer of Intrinsic Microporosity Incorporating Thioamide Functionality: Preparation and Gas Transport Properties. <i>Macromolecules</i> , 2011, 44, 6471-6479.	4.8	233
8	Gas transport properties of Pebax®/room temperature ionic liquid gel membranes. <i>Separation and Purification Technology</i> , 2012, 97, 73-82.	7.9	223
9	Enhancement of CO <sub>2</sub> Affinity in a Polymer of Intrinsic Microporosity by Amine Modification. <i>Macromolecules</i> , 2014, 47, 1021-1029.	4.8	204
10	A highly permeable polyimide with enhanced selectivity for membrane gas separations. <i>Journal of Materials Chemistry A</i> , 2014, 2, 4874-4877.	10.3	159
11	Highly Permeable Benzotriptycene-Based Polymer of Intrinsic Microporosity. <i>ACS Macro Letters</i> , 2015, 4, 912-915.	4.8	159
12	Synthesis and gas permeation properties of novel spirobisindane-based polyimides of intrinsic microporosity. <i>Polymer Chemistry</i> , 2013, 4, 3813.	3.9	141
13	High ionic liquid content polymeric gel membranes: Correlation of membrane structure with gas and vapour transport properties. <i>Journal of Membrane Science</i> , 2012, 415-416, 801-809.	8.2	127
14	Preparation of solvent stable polyphenylsulfone hollow fiber nanofiltration membranes. <i>Journal of Membrane Science</i> , 2011, 384, 89-96.	8.2	119
15	Thermally Rearrangeable PIM-Polyimides for Gas Separation Membranes. <i>Macromolecules</i> , 2014, 47, 5595-5606.	4.8	118
16	Enhancing the Gas Permeability of Träger's Base Derived Polyimides of Intrinsic Microporosity. <i>Macromolecules</i> , 2016, 49, 4147-4154.	4.8	115
17	Molecular Modeling and Gas Permeation Properties of a Polymer of Intrinsic Microporosity Composed of Ethanoanthracene and Träger's Base Units. <i>Macromolecules</i> , 2014, 47, 7900-7916.	4.8	104
18	Influence of the blend composition on the properties and separation performance of novel solvent resistant polyphenylsulfone/polyimide nanofiltration membranes. <i>Journal of Membrane Science</i> , 2013, 447, 107-118.	8.2	86

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19	Gas Permeability of Hexaphenylbenzene Based Polymers of Intrinsic Microporosity. <i>Macromolecules</i> , 2014, 47, 8320-8327.	4.8	82
20	Synthesis of cardo-polymers using Tröger's base formation. <i>Polymer Chemistry</i> , 2014, 5, 5255.	3.9	63
21	Engineering Evaluations of a Catalytic Membrane Reactor for the Water Gas Shift Reaction. <i>Industrial &amp; Engineering Chemistry Research</i> , 2005, 44, 7676-7683.	3.7	53
22	Mixed matrix membranes based on MIL-101 metal-organic frameworks in polymer of intrinsic microporosity PIM-1. <i>Separation and Purification Technology</i> , 2019, 212, 545-554.	7.9	53
23	The influence of few-layer graphene on the gas permeability of the high-free-volume polymer PIM-1. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150031.	3.4	51
24	Pebax®/PAN hollow fiber membranes for CO <sub>2</sub> /CH <sub>4</sub> separation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015, 94, 53-61.	3.6	49
25	Temperature and pressure dependence of gas permeation in amine-modified PIM-1. <i>Journal of Membrane Science</i> , 2018, 555, 483-496.	8.2	45
26	Gas transport properties and pervaporation performance of fluoropolymer gel membranes based on pure and mixed ionic liquids. <i>Separation and Purification Technology</i> , 2013, 109, 87-97.	7.9	40
27	Active packaging for table grapes: Evaluation of antimicrobial performances of packaging for shelf life of the grapes under thermal stress. <i>Food Packaging and Shelf Life</i> , 2020, 25, 100545.	7.5	30
28	Influence of the Preparation Method and Photo-Oxidation Treatment on the Thermal and Gas Transport Properties of Dense Films Based on a Poly(ether-block-amide) Copolymer. <i>Materials</i> , 2018, 11, 1326.	2.9	28
29	Enhancing Gas Permeation Properties of Pebax® 1657 Membranes via Polysorbate Nonionic Surfactants Doping. <i>Polymers</i> , 2020, 12, 253.	4.5	28
30	Thin film composite membranes based on a polymer of intrinsic microporosity derived from Tröger's base: A combined experimental and computational investigation of the role of residual casting solvent. <i>Journal of Membrane Science</i> , 2019, 569, 17-31.	8.2	25
31	Carbon Nanotube- and Carbon Fiber-Reinforcement of Ethylene-Octene Copolymer Membranes for Gas and Vapor Separation. <i>Membranes</i> , 2014, 4, 20-39.	3.0	23
32	Effect of Bridgehead Methyl Substituents on the Gas Permeability of Tröger's-Base Derived Polymers of Intrinsic Microporosity. <i>Membranes</i> , 2020, 10, 62.	3.0	21
33	Triggering the gas transport in PVdF-HFP membranes via imidazolium ionic liquids. <i>Separation and Purification Technology</i> , 2020, 250, 117201.	7.9	17
34	A Review of the Recent Progress in the Development of Nanocomposites Based on Poly(ether-block-amide) Copolymers as Membranes for CO <sub>2</sub> Separation. <i>Polymers</i> , 2022, 14, 10.	4.5	17
35	Multilayer composite SBS membranes for pervaporation and gas separation. <i>Separation and Purification Technology</i> , 2011, 80, 635-642.	7.9	16
36	Integrated membrane operations in the ethylene oxide production. <i>Clean Technologies and Environmental Policy</i> , 2012, 14, 475-485.	4.1	10

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37	Anomalous Phenomena Occurring during Permeation and Sorption of C1–C6 Alcohol Vapors in Teflon AF 2400. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 10406-10417.	3.7	10
38	Solution Casting Blending: An Effective Way for Tailoring Gas Transport and Mechanical Properties of Poly(vinyl butyral) and Pebax2533. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11264-11272.	3.1	10
39	Heterogenized Imidazolium-Based Ionic Liquids in Pebax®Rnew. Thermal, Gas Transport and Antimicrobial Properties. <i>Polymers</i> , 2020, 12, 1419.	4.5	9
40	Effect of Physical Aging on Gas Transport in Asymmetric Polyimide Hollow Fibers Prepared by Triple-Orifice Spinneret. <i>Polymers</i> , 2020, 12, 441.	4.5	9
41	Microscopic and macroscopic investigation on the gas diffusion in poly(ether-block-amide) membranes doped with polysorbate nonionic surfactants. <i>Polymer</i> , 2020, 209, 122949.	3.8	8
42	Effect of the Post-Spinning Solvent Exchange on the Performance of Asymmetric, Polyimide Hollow Fibers Prepared by Using a Triple-Orifice Spinneret. <i>Materials</i> , 2019, 12, 3632.	2.9	7
43	Catalytic zeolite membrane reactors for the selective CO oxidation. <i>Desalination</i> , 2006, 200, 702-704.	8.2	6
44	Ball Milling to Produce Composites Based of Natural Clinoptilolite as a Carrier of Salicylate in Bio-Based PA11. <i>Polymers</i> , 2019, 11, 634.	4.5	6
45	Effect of external fluid and inline crosslinking on the performance of polyimide hollow fibres prepared by using a triple-orifice spinneret. <i>Journal of Membrane Science</i> , 2019, 570-571, 410-417.	8.2	6
46	Hollow Fiber Polyimide Membranes Prepared in a Triple Orifice Spinneret: Effect of a Reduced Water Activity in the Bore Fluid on the Gas Separation Performance. <i>Polymers</i> , 2021, 13, 2211.	4.5	2
47	4.9 Membrane Technology in the Refinery and Petrochemical Field: Research Trends and Recent Progresses. , 2017, , 164-188.		1
48	Microporous Polymeric Membranes: Structure, Preparation, Characterization, and Applications. , 2019, , 225-258.		0
49	EVA Films Loaded with Layered Double Hydroxide (LDH) Modified with Methacrylic Anion: Effect of the Nanohybrid Filler on the Photodegradation Phenomena. <i>Polymers</i> , 2021, 13, 2525.	4.5	0
50	Gas Separation by Membrane Operations. , 2015, , 1-3.		0