

# Francesco Maria Benedetti

## List of Publications by Year in descending order

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Version: 2024-02-01

17  
papers

1,409  
citations

687363

13  
h-index

888059

17  
g-index

17  
all docs

17  
docs citations

17  
times ranked

1277  
citing authors

#	ARTICLE	IF	CITATIONS
1	MOF-Based Membranes for Gas Separations. <i>Chemical Reviews</i> , 2020, 120, 8161-8266.	47.7	755
2	Partitioning of mobile ions between ion exchange polymers and aqueous salt solutions: importance of counter-ion condensation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 6021-6031.	2.8	148
3	Hydrocarbon ladder polymers with ultrahigh permselectivity for membrane gas separations. <i>Science</i> , 2022, 375, 1390-1392.	12.6	86
4	Monovalent and divalent ion sorption in a cation exchange membrane based on cross-linked poly(p-styrene sulfonate-co-divinylbenzene). <i>Journal of Membrane Science</i> , 2017, 535, 132-142.	8.2	64
5	Polymers with Side Chain Porosity for Ultrapermearable and Plasticization Resistant Materials for Gas Separations. <i>Advanced Materials</i> , 2019, 31, e1807871.	21.0	64
6	Tuning Selectivities in Gas Separation Membranes Based on Polymer-Grafted Nanoparticles. <i>ACS Nano</i> , 2020, 14, 17174-17183.	14.6	55
7	Tuning the Molecular Weights, Chain Packing, and Gas-Transport Properties of CANAL Ladder Polymers by Short Alkyl Substitutions. <i>Macromolecules</i> , 2019, 52, 6294-6302.	4.8	46
8	Facile and Time-Efficient Carboxylic Acid Functionalization of PIM-1: Effect on Molecular Packing and Gas Separation Performance. <i>Macromolecules</i> , 2020, 53, 6220-6234.	4.8	44
9	Competitive sorption in CO <sub>2</sub> /CH <sub>4</sub> separations: the case of HAB-6FDA polyimide and its TR derivative and a general analysis of its impact on the selectivity of glassy polymers at multicomponent conditions. <i>Journal of Membrane Science</i> , 2020, 612, 118374.	8.2	32
10	Revisiting group contribution theory for estimating fractional free volume of microporous polymer membranes. <i>Journal of Membrane Science</i> , 2021, 636, 119526.	8.2	26
11	Sorption-enhanced mixed-gas transport in amine functionalized polymers of intrinsic microporosity (PIMs). <i>Journal of Materials Chemistry A</i> , 2021, 9, 23631-23642.	10.3	21
12	Enabling experimental characterization and prediction of ternary mixed-gas sorption in polymers: C <sub>2</sub> H <sub>6</sub> /CO <sub>2</sub> /CH <sub>4</sub> in PIM-1. <i>Chemical Engineering Journal</i> , 2021, 426, 130715.	12.7	17
13	Enhancing the Separation Performance of Glassy PPO with the Addition of a Molecular Sieve (ZIF-8): Gas Transport at Various Temperatures. <i>Membranes</i> , 2020, 10, 56.	3.0	15
14	Elucidating the Role of Fluorine Content on Gas Sorption Properties of Fluorinated Polyimides. <i>Macromolecules</i> , 2021, 54, 22-34.	4.8	13
15	Free volume manipulation of a 6FDA-HAB polyimide using a solid-state protection/deprotection strategy. <i>Polymer</i> , 2021, 212, 123121.	3.8	11
16	Side-Chain Length and Dispersity in ROMP Polymers with Pore-Generating Side Chains for Gas Separations. <i>Jacs Au</i> , 2022, 2, 1610-1615.	7.9	9
17	Mixed Matrix Membranes Based on Torlon <sup>®</sup> and ZIF-8 for High-Temperature, Size-Selective Gas Separations. <i>Membranes</i> , 2021, 11, 982.	3.0	3