Francesco Maria Benedetti

List of Publications by Year
in descending order

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	Hydrocarbon ladder polymers with ultrahigh permselectivity for membrane gas separations. Science, 2022, 375, 1390-1392.	12.6	86
2	Side-Chain Length and Dispersity in ROMP Polymers with Pore-Generating Side Chains for Gas Separations. Jacs Au, 2022, 2, 1610-1615.	7.9	9
3	Free volume manipulation of a 6FDA-HAB polyimide using a solid-state protection/deprotection strategy. Polymer, 2021, 212, 123121.	3.8	11
4	Elucidating the Role of Fluorine Content on Gas Sorption Properties of Fluorinated Polyimides. Macromolecules, 2021, 54, 22-34.	4.8	13
5	Revisiting group contribution theory for estimating fractional free volume of microporous polymer membranes. Journal of Membrane Science, 2021, 636, 119526.	8.2	26
6	Enabling experimental characterization and prediction of ternary mixed-gas sorption in polymers: C2H6/CO2/CH4 in PIM-1. Chemical Engineering Journal, 2021, 426, 130715.	12.7	17
7	Sorption-enhanced mixed-gas transport in amine functionalized polymers of intrinsic microporosity (PIMs). Journal of Materials Chemistry A, 2021, 9, 23631-23642.	10.3	21
8	Mixed Matrix Membranes Based on TorlonÂ® and ZIF-8 for High-Temperature, Size-Selective Gas Separations. Membranes, 2021, 11, 982.	3.0	3
9	Facile and Time-Efficient Carboxylic Acid Functionalization of PIM-1: Effect on Molecular Packing and Gas Separation Performance. Macromolecules, 2020, 53, 6220-6234.	4.8	44
10	Tuning Selectivities in Gas Separation Membranes Based on Polymer-Grafted Nanoparticles. ACS Nano, 2020, 14, 17174-17183.	14.6	55
11	MOF-Based Membranes for Gas Separations. Chemical Reviews, 2020, 120, 8161-8266.	47.7	755
12	Competitive sorption in CO2/CH4 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. Journal of Membrane Science, 2020, 612, 118374.	8.2	32
13	Enhancing the Separation Performance of Glassy PPO with the Addition of a Molecular Sieve (ZIF-8): Gas Transport at Various Temperatures. Membranes, 2020, 10, 56.	3.0	15
14	Tuning the Molecular Weights, Chain Packing, and Gas-Transport Properties of CANAL Ladder Polymers by Short Alkyl Substitutions. Macromolecules, 2019, 52, 6294-6302.	4.8	46
15	Polymers with Side Chain Porosity for Ultrapermeable and Plasticization Resistant Materials for Gas Separations. Advanced Materials, 2019, 31, e1807871.	21.0	64
16	Monovalent and divalent ion sorption in a cation exchange membrane based on cross-linked poly (p-styrene sulfonate-co-divinylbenzene). Journal of Membrane Science, 2017, 535, 132-142.	8.2	64
17	Partitioning of mobile ions between ion exchange polymers and aqueous salt solutions: importance of counter-ion condensation. Physical Chemistry Chemical Physics, 2016, 18, 6021-6031.	2.8	148