

# Marco Giacinti Baschetti

## List of Publications by Year in descending order

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48  
papers

2,031  
citations

201674

27  
h-index

243625

44  
g-index

48  
all docs

48  
docs citations

48  
times ranked

2196  
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of mass transport properties of microfibrillated cellulose (MFC) films. <i>Journal of Membrane Science</i> , 2010, 358, 67-75.	8.2	157
2	Facilitated transport membranes containing amino-functionalized multi-walled carbon nanotubes for high-pressure CO <sub>2</sub> separations. <i>Journal of Membrane Science</i> , 2015, 490, 18-28.	8.2	139
3	Solubility in Glassy Polymers: Correlations through the Nonequilibrium Lattice Fluid Model. <i>Industrial &amp; Engineering Chemistry Research</i> , 2001, 40, 3027-3037.	3.7	101
4	Nanocellulose-based membranes for CO <sub>2</sub> capture. <i>Journal of Membrane Science</i> , 2017, 522, 216-225.	8.2	90
5	Non-Fickian Diffusion of Water in Nafion. <i>Macromolecules</i> , 2010, 43, 4667-4678.	4.8	86
6	Influence of the gas phase resistance on hydrogen flux through thin palladium-silver membranes. <i>Journal of Membrane Science</i> , 2009, 339, 57-67.	8.2	84
7	Hydrogen permeability of 2.5 µm palladium-silver membranes deposited on ceramic supports. <i>Journal of Membrane Science</i> , 2008, 325, 446-453.	8.2	74
8	Hydrogen sulfide capture and removal technologies: A comprehensive review of recent developments and emerging trends. <i>Separation and Purification Technology</i> , 2022, 298, 121448.	7.9	70
9	Time-resolved Fourier transform infrared/attenuated total reflection spectroscopy for the measurement of molecular diffusion in polymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003, 41, 2794-2807.	2.1	63
10	Analysis of modeling results for barrier properties in ordered nanocomposite systems. <i>Journal of Membrane Science</i> , 2009, 327, 208-215.	8.2	59
11	Hydrogen permeation in palladium-based membranes in the presence of carbon monoxide. <i>Journal of Membrane Science</i> , 2010, 362, 221-233.	8.2	55
12	Gas permeation in perfluorosulfonated membranes: Influence of temperature and relative humidity. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 11973-11982.	7.1	54
13	Effect of humidity and nanocellulose content on Polyvinylamine-nanocellulose hybrid membranes for CO <sub>2</sub> capture. <i>Journal of Membrane Science</i> , 2018, 548, 263-274.	8.2	53
14	A comprehensive model for mass transport properties in nanocomposites. <i>Journal of Membrane Science</i> , 2011, 381, 10-20.	8.2	50
15	Nafion/PEG hybrid membrane for CO <sub>2</sub> separation: Effect of PEG on membrane micro-structure and performance. <i>Separation and Purification Technology</i> , 2019, 214, 67-77.	7.9	50
16	Effect of Crystallinity on Water Vapor Sorption, Diffusion, and Permeation of PLA-Based Nanocomposites. <i>ACS Omega</i> , 2020, 5, 15362-15369.	3.5	50
17	FTIR-ATR Study of Water Distribution in a Short-Side-Chain PFSI Membrane. <i>Macromolecules</i> , 2012, 45, 1901-1912.	4.8	48
18	Models for Facilitated Transport Membranes: A Review. <i>Membranes</i> , 2019, 9, 26.	3.0	47

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19	Nonequilibrium Sorption of Water in Polylactide. <i>Macromolecules</i> , 2012, 45, 7486-7494.	4.8	44
20	Atmospheric plasma assisted PLA/microfibrillated cellulose (MFC) multilayer biocomposite for sustainable barrier application. <i>Industrial Crops and Products</i> , 2016, 93, 235-243.	5.2	41
21	Solubility of gases and vapors in glassy polymers modelled through non-equilibrium PHSC theory. <i>Fluid Phase Equilibria</i> , 2006, 241, 300-307.	2.5	39
22	Permeability and Selectivity of PPO/Graphene Composites as Mixed Matrix Membranes for CO <sub>2</sub> Capture and Gas Separation. <i>Polymers</i> , 2018, 10, 129.	4.5	38
23	Influence of water vapor on the gas permeability of polymerized ionic liquids membranes. <i>Journal of Membrane Science</i> , 2015, 487, 199-208.	8.2	36
24	Study of gas permeabilities through polystyrene-block-poly(ethylene oxide) copolymers. <i>Journal of Membrane Science</i> , 2013, 432, 83-89.	8.2	35
25	Quantitative Analysis of Polymer Dilution during Sorption Using FTIR-ATR Spectroscopy. <i>Macromolecules</i> , 2003, 36, 9574-9584.	4.8	34
26	Non-Fickian Diffusion of Water in Polylactide. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 8664-8673.	3.7	31
27	Water sorption in microfibrillated cellulose (MFC): The effect of temperature and pretreatment. <i>Carbohydrate Polymers</i> , 2017, 174, 1201-1212.	10.2	30
28	Influence of water vapor on hydrogen permeation through 2.5-µm Ag membranes. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 8658-8673.	7.1	28
29	Influence of water uptake on the electrical DC-conductivity of insulating LDPE/MgO nanocomposites. <i>Composites Science and Technology</i> , 2017, 152, 11-19.	7.8	28
30	The influence of moisture content on the polymer structure of polyvinyl alcohol in dispersion barrier coatings and its effect on the mass transport of oxygen. <i>Journal of Coatings Technology Research</i> , 2017, 14, 1345-1355.	2.5	28
31	Hybrid Pla/wild garlic antimicrobial composite films for food packaging application. <i>Polymer Composites</i> , 2019, 40, 893-900.	4.6	28
32	Test methods for the characterization of gas and vapor permeability in polymers for food packaging application: A review. <i>Polymer Testing</i> , 2020, 89, 106606.	4.8	27
33	Humid permeation of CO <sub>2</sub> and hydrocarbons in Aquivion® perfluorosulfonic acid ionomer membranes, experimental and modeling. <i>Journal of Membrane Science</i> , 2017, 542, 367-377.	8.2	26
34	The use of essential oils in chitosan or cellulose-based materials for the production of active food packaging solutions: a review. <i>Journal of the Science of Food and Agriculture</i> , 2023, 103, 1021-1041.	3.5	26
35	Pebax® 2533/Graphene Oxide Nanocomposite Membranes for Carbon Capture. <i>Membranes</i> , 2020, 10, 188.	3.0	23
36	Arginine/Nanocellulose Membranes for Carbon Capture Applications. <i>Nanomaterials</i> , 2019, 9, 877.	4.1	21

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37	Highly CO <sub>2</sub> -permeable membranes derived from a midblock-sulfonated multiblock polymer after submersion in water. <i>NPG Asia Materials</i> , 2019, 11, .	7.9	19
38	Modelling solubility in semi-crystalline polymers: a critical comparative review. <i>Fluid Phase Equilibria</i> , 2022, 556, 113412.	2.5	19
39	A quartz crystal microbalance study of water vapor sorption in a short side-chain PFSI membrane. <i>Desalination</i> , 2006, 200, 636-638.	8.2	16
40	Equation of State Modeling of the Solubility of CO <sub>2</sub> /C <sub>2</sub> H <sub>6</sub> Mixtures in Cross-Linked Poly(ethylene Terephthalate) Overlaid with a 10 Tm 50	3.7	15
41	Gas and water vapor permeation in a short-side-chain PFSI membrane. <i>Desalination</i> , 2009, 240, 341-346.	8.2	14
42	Polyvinylamine Membranes Containing Graphene-Based Nanofillers for Carbon Capture Applications. <i>Membranes</i> , 2019, 9, 119.	3.0	13
43	Effect of Mobile Carrier on the Performance of PVAm@Nanocellulose Facilitated Transport Membranes for CO <sub>2</sub> Capture. <i>Membranes</i> , 2021, 11, 442.	3.0	9
44	The effect of pressure and mixed gas composition on humid CO <sub>2</sub> and hydrocarbons permeation in Aquivion® PFSA. <i>Journal of Membrane Science</i> , 2018, 566, 96-103.	8.2	8
45	Hydrogen sulfide mix gas permeation in Aquivion® perfluorosulfonic acid (PFSA) ionomer membranes for natural gas sweetening. <i>Journal of Membrane Science</i> , 2021, 640, 119809.	8.2	8
46	Effects of random defect distributions in the barrier coating on the gas permeability of multilayer films. <i>Surface and Coatings Technology</i> , 2016, 302, 65-74.	4.8	6
47	Synthesis and characterization of a benzoyl modified Pebax materials for gas separation applications. <i>Polymer</i> , 2021, 228, 123944.	3.8	6
48	Solvent-Induced Stresses during Sorption in Glassy Polycarbonate: Experimental Analysis and Model Simulation for a Novel Bending Cantilever Apparatus. <i>Industrial &amp; Engineering Chemistry Research</i> , 2008, 47, 1071-1080.	3.7	5