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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	The use of essential oils in chitosan or celluloseâ€based materials for the production of active food packaging solutions: a review. Journal of the Science of Food and Agriculture, 2023, 103, 1021-1041.	3.5	26
2	Modelling solubility in semi-crystalline polymers: a critical comparative review. Fluid Phase Equilibria, 2022, 556, 113412.	2.5	19
3	Hydrogen sulfide capture and removal technologies: A comprehensive review of recent developments and emerging trends. Separation and Purification Technology, 2022, 298, 121448.	7.9	70
4	Effect of Mobile Carrier on the Performance of PVAmâ€“Nanocellulose Facilitated Transport Membranes for CO2 Capture. Membranes, 2021, 11, 442.	3.0	9
5	Synthesis and characterization of a benzoyl modified Pebax materials for gas separation applications. Polymer, 2021, 228, 123944.	3.8	6
6	Hydrogen sulfide mix gas permeation in AquivionÂ® perfluorosulfonic acid (PFSA) ionomer membranes for natural gas sweetening. Journal of Membrane Science, 2021, 640, 119809.	8.2	8
7	PebaxÂ® 2533/Graphene Oxide Nanocomposite Membranes for Carbon Capture. Membranes, 2020, 10, 188.	3.0	23
8	Effect of Crystallinity on Water Vapor Sorption, Diffusion, and Permeation of PLA-Based Nanocomposites. ACS Omega, 2020, 5, 15362-15369.	3.5	50
9	Test methods for the characterization of gas and vapor permeability in polymers for food packaging application: A review. Polymer Testing, 2020, 89, 106606.	4.8	27
10	Highly CO2-permeable membranes derived from a midblock-sulfonated multiblock polymer after submersion in water. NPG Asia Materials, 2019, 11, .	7.9	19
11	Polyvinylamine Membranes Containing Graphene-Based Nanofillers for Carbon Capture Applications. Membranes, 2019, 9, 119.	3.0	13
12	Arginine/Nanocellulose Membranes for Carbon Capture Applications. Nanomaterials, 2019, 9, 877.	4.1	21
13	Models for Facilitated Transport Membranes: A Review. Membranes, 2019, 9, 26.	3.0	47
14	Nafion/PEG hybrid membrane for CO2 separation: Effect of PEG on membrane micro-structure and performance. Separation and Purification Technology, 2019, 214, 67-77.	7.9	50
15	Hybrid Pla/wild garlic antimicrobial composite films for food packaging application. Polymer Composites, 2019, 40, 893-900.	4.6	28
16	Effect of humidity and nanocellulose content on Polyvinylamine-nanocellulose hybrid membranes for CO2 capture. Journal of Membrane Science, 2018, 548, 263-274.	8.2	53
17	Permeability and Selectivity of PPO/Graphene Composites as Mixed Matrix Membranes for CO2 Capture and Gas Separation. Polymers, 2018, 10, 129.	4.5	38
18	The effect of pressure and mixed gas composition on humid CO2 and hydrocarbons permeation in AquivionÂ® PFSA. Journal of Membrane Science, 2018, 566, 96-103.	8.2	8

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19	Humid permeation of CO2 and hydrocarbons in AquivionÂ® perfluorosulfonic acid ionomer membranes, experimental and modeling. Journal of Membrane Science, 2017, 542, 367-377.	8.2	26
20	Influence of water uptake on the electrical DC-conductivity of insulating LDPE/MgO nanocomposites. Composites Science and Technology, 2017, 152, 11-19.	7.8	28
21	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. Journal of Coatings Technology Research, 2017, 14, 1345-1355.	2.5	28
22	Water sorption in microfibrillated cellulose (MFC): The effect of temperature and pretreatment. Carbohydrate Polymers, 2017, 174, 1201-1212.	10.2	30
23	Nanocellulose-based membranes for CO2 capture. Journal of Membrane Science, 2017, 522, 216-225.	8.2	90
24	Effects of random defect distributions in the barrier coating on the gas permeability of multilayer films. Surface and Coatings Technology, 2016, 302, 65-74.	4.8	6
25	Atmospheric plasma assisted PLA/microfibrillated cellulose (MFC) multilayer biocomposite for sustainable barrier application. Industrial Crops and Products, 2016, 93, 235-243.	5.2	41
26	Equation of State Modeling of the Solubility of CO2/C2H6 Mixtures in Cross-Linked Poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.7	15
27	Facilitated transport membranes containing amino-functionalized multi-walled carbon nanotubes for high-pressure CO2 separations. Journal of Membrane Science, 2015, 490, 18-28.	8.2	139
28	Influence of water vapor on the gas permeability of polymerized ionic liquids membranes. Journal of Membrane Science, 2015, 487, 199-208.	8.2	36
29	Study of gas permeabilities through polystyrene-block-poly(ethylene oxide) copolymers. Journal of Membrane Science, 2013, 432, 83-89.	8.2	35
30	Gas permeation in perflurosulfonated membranes: Influence of temperature and relative humidity. International Journal of Hydrogen Energy, 2013, 38, 11973-11982.	7.1	54
31	Non-Fickian Diffusion of Water in Polylactide. Industrial & Engineering Chemistry Research, 2013, 52, 8664-8673.	3.7	31
32	Nonequilibrium Sorption of Water in Polylactide. Macromolecules, 2012, 45, 7486-7494.	4.8	44
33	FTIR-ATR Study of Water Distribution in a Short-Side-Chain PFSI Membrane. Macromolecules, 2012, 45, 1901-1912.	4.8	48
34	A comprehensive model for mass transport properties in nanocomposites. Journal of Membrane Science, 2011, 381, 10-20.	8.2	50
35	Influence of water vapor on hydrogen permeation through 2.5ÂÎ¼mÂPdâ€“Ag membranes. International Journal of Hydrogen Energy, 2011, 36, 8658-8673.	7.1	28
36	Investigation of mass transport properties of microfibrillated cellulose (MFC) films. Journal of Membrane Science, 2010, 358, 67-75.	8.2	157

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37	Hydrogen permeation in palladium-based membranes in the presence of carbon monoxide. Journal of Membrane Science, 2010, 362, 221-233.	8.2	55
38	Non-Fickian Diffusion of Water in Nafion. Macromolecules, 2010, 43, 4667-4678.	4.8	86
39	Analysis of modeling results for barrier properties in ordered nanocomposite systems. Journal of Membrane Science, 2009, 327, 208-215.	8.2	59
40	Influence of the gas phase resistance on hydrogen flux through thin palladiumâ€“silver membranes. Journal of Membrane Science, 2009, 339, 57-67.	8.2	84
41	Gas and water vapor permeation in a short-side-chain PFSI membrane. Desalination, 2009, 240, 341-346.	8.2	14
42	Hydrogen permeability of 2.5Î¼m palladiumâ€“silver membranes deposited on ceramic supports. Journal of Membrane Science, 2008, 325, 446-453.	8.2	74
43	Solvent-Induced Stresses during Sorption in Glassy Polycarbonate:â€‰ Experimental Analysis and Model Simulation for a Novel Bending Cantilever Apparatus. Industrial & Engineering Chemistry Research, 2008, 47, 1071-1080.	3.7	5
44	A quartz crystal microbalance study of water vapor sorption in a short side-chain PFSI membrane. Desalination, 2006, 200, 636-638.	8.2	16
45	Solubility of gases and vapors in glassy polymers modelled through non-equilibrium PHSC theory. Fluid Phase Equilibria, 2006, 241, 300-307.	2.5	39
46	Time-resolved Fourier transform infrared/attenuated total reflection spectroscopy for the measurement of molecular diffusion in polymers. Journal of Polymer Science, Part B: Polymer Physics, 2003, 41, 2794-2807.	2.1	63
47	Quantitative Analysis of Polymer Dilation during Sorption Using FTIR-ATR Spectroscopy. Macromolecules, 2003, 36, 9574-9584.	4.8	34
48	Solubility in Glassy Polymers:Â Correlations through the Nonequilibrium Lattice Fluid Model. Industrial & Engineering Chemistry Research, 2001, 40, 3027-3037.	3.7	101