Raja Swaidan

List of Publications by Year
in descending order

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20 papers	2,933 citations	393982 19 h-index	713013 21 g-index
21 all docs	21 docs citations	21 times ranked	2453 citing authors

#	Article	IF	Citations
1	Fine-Tuned Intrinsically Ultramicroporous Polymers Redefine the Permeability/Selectivity Upper Bounds of Membrane-Based Air and Hydrogen Separations. ACS Macro Letters, 2015, 4, 947-951.	2.3	336
2	Ultraâ€Microporous Triptyceneâ€based Polyimide Membranes for Highâ€Performance Gas Separation. Advanced Materials, 2014, 26, 3688-3692.	11.1	335
3	Physical Aging, Plasticization and Their Effects on Gas Permeation in â€œRigidâ€•Polymers of Intrinsic Microporosity. Macromolecules, 2015, 48, 6553-6561.	2.2	263
4	Pure- and mixed-gas CO2/CH4 separation properties of PIM-1 and an amidoxime-functionalized PIM-1. Journal of Membrane Science, 2014, 457, 95-102.	4.1	217
5	Synthesis and Gas Transport Properties of Hydroxyl-Functionalized Polyimides with Intrinsic Microporosity. Macromolecules, 2012, 45, 3841-3849.	2.2	193
6	Energyâ€Efficient Hydrogen Separation by ABâ€Type Ladderâ€Polymer Molecular Sieves. Advanced Materials, 2014, 26, 6696-6700.	11.1	177
7	The liquid phase epitaxy approach for the successful construction of ultra-thin and defect-free ZIF-8 membranes: pure and mixed gas transport study. Chemical Communications, 2014, 50, 2089.	2.2	167
8	Rational Design of Intrinsically Ultramicroporous Polyimides Containing Bridgehead-Substituted Triptycene for Highly Selective and Permeable Gas Separation Membranes. Macromolecules, 2014, 47, 5104-5114.	2.2	163
9	High pressure pure- and mixed-gas separation of CO2/CH4 by thermally-rearranged and carbon molecular sieve membranes derived from a polyimide of intrinsic microporosity. Journal of Membrane Science, 2013, 447, 387-394.	4.1	148
10	Carbon molecular sieve gas separation membranes based on an intrinsically microporous polyimide precursor. Carbon, 2013, 62, 88-96.	5.4	138
11	Quest for Anionic MOF Membranes: Continuous sod-ZMOF Membrane with CO₂ Adsorption-Driven Selectivity. Journal of the American Chemical Society, 2015, 137, 1754-1757.	6.6	138
12	Enhanced methanol electro-oxidation activity of PtRu catalysts supported on heteroatom-doped carbon. Electrochimica Acta, 2008, 53, 7622-7629.	2.6	133
13	Role of Intrachain Rigidity in the Plasticization of Intrinsically Microporous Triptycene-Based Polyimide Membranes in Mixed-Gas CO₂/CH₄ Separations. Macromolecules, 2014, 47, 7453-7462.	2.2	106
14	Gas permeation and physical aging properties of iptycene diamine-based microporous polyimides. Journal of Membrane Science, 2015, 490, 321-327.	4.1	95
15	Effects of hydroxyl-functionalization and sub-T thermal annealing on high pressure pure- and mixed-gas CO2/CH4 separation by polyimide membranes based on 6FDA and triptycene-containing dianhydrides. Journal of Membrane Science, 2015, 475, 571-581.	4.1	95
16	Electrooxidations of ethanol, acetaldehyde and acetic acid using PtRuSn/C catalysts prepared by modified alcohol-reduction process. Journal of Power Sources, 2007, 172, 180-188.	4.0	79
17	Pure- and mixed-gas propylene/propane permeation properties of spiro- and triptycene-based microporous polyimides. Journal of Membrane Science, 2015, 492, 116-122.	4.1	57
18	6FDA-DETDA: DABE polyimide-derived carbon molecular sieve hollow fiber membranes: Circumventing unusual aging phenomena. Journal of Membrane Science, 2018, 546, 197-205.	4.1	46

#	Article	IF	Citations
19	Cause and effects of hyperskin features on carbon molecular sieve (CMS) membranes. Journal of Membrane Science, 2018, 551, 113-122.	4.1	40
20	Polyimide Membranes: Ultraâ€Microporous Triptyceneâ€based Polyimide Membranes for Highâ€Performance Gas Separation (Adv. Mater. 22/2014). Advanced Materials, 2014, 26, 3775-3775.	11.1	6