

Raja Swaidan

List of Publications by Year in descending order

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20
papers

2,933
citations

394421

19
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713466

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docs citations

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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. <i>ACS Macro Letters</i> , 2015, 4, 947-951.	4.8	336
2	Ultra-Microporous Triptycene-Based Polyimide Membranes for High-Performance Gas Separation. <i>Advanced Materials</i> , 2014, 26, 3688-3692.	21.0	335
3	Physical Aging, Plasticization and Their Effects on Gas Permeation in "Rigid" Polymers of Intrinsic Microporosity. <i>Macromolecules</i> , 2015, 48, 6553-6561.	4.8	263
4	Pure- and mixed-gas CO ₂ /CH ₄ separation properties of PIM-1 and an amidoxime-functionalized PIM-1. <i>Journal of Membrane Science</i> , 2014, 457, 95-102.	8.2	217
5	Synthesis and Gas Transport Properties of Hydroxyl-Functionalized Polyimides with Intrinsic Microporosity. <i>Macromolecules</i> , 2012, 45, 3841-3849.	4.8	193
6	Energy-Efficient Hydrogen Separation by AB-Type Ladder-Polymer Molecular Sieves. <i>Advanced Materials</i> , 2014, 26, 6696-6700.	21.0	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. <i>Chemical Communications</i> , 2014, 50, 2089.	4.1	167
8	Rational Design of Intrinsically Ultramicroporous Polyimides Containing Bridgehead-Substituted Triptycene for Highly Selective and Permeable Gas Separation Membranes. <i>Macromolecules</i> , 2014, 47, 5104-5114.	4.8	163
9	High pressure pure- and mixed-gas separation of CO ₂ /CH ₄ by thermally-rearranged and carbon molecular sieve membranes derived from a polyimide of intrinsic microporosity. <i>Journal of Membrane Science</i> , 2013, 447, 387-394.	8.2	148
10	Carbon molecular sieve gas separation membranes based on an intrinsically microporous polyimide precursor. <i>Carbon</i> , 2013, 62, 88-96.	10.3	138
11	Quest for Anionic MOF Membranes: Continuous sod-ZMOF Membrane with CO ₂ Adsorption-Driven Selectivity. <i>Journal of the American Chemical Society</i> , 2015, 137, 1754-1757.	13.7	138
12	Enhanced methanol electro-oxidation activity of PtRu catalysts supported on heteroatom-doped carbon. <i>Electrochimica Acta</i> , 2008, 53, 7622-7629.	5.2	133
13	Role of Intrachain Rigidity in the Plasticization of Intrinsically Microporous Triptycene-Based Polyimide Membranes in Mixed-Gas CO ₂ /CH ₄ Separations. <i>Macromolecules</i> , 2014, 47, 7453-7462.	4.8	106
14	Gas permeation and physical aging properties of triptycene diamine-based microporous polyimides. <i>Journal of Membrane Science</i> , 2015, 490, 321-327.	8.2	95
15	Effects of hydroxyl-functionalization and sub-T thermal annealing on high pressure pure- and mixed-gas CO ₂ /CH ₄ separation by polyimide membranes based on 6FDA and triptycene-containing dianhydrides. <i>Journal of Membrane Science</i> , 2015, 475, 571-581.	8.2	95
16	Electrooxidations of ethanol, acetaldehyde and acetic acid using PtRuSn/C catalysts prepared by modified alcohol-reduction process. <i>Journal of Power Sources</i> , 2007, 172, 180-188.	7.8	79
17	Pure- and mixed-gas propylene/propane permeation properties of spiro- and triptycene-based microporous polyimides. <i>Journal of Membrane Science</i> , 2015, 492, 116-122.	8.2	57
18	6FDA-DETD: DABE polyimide-derived carbon molecular sieve hollow fiber membranes: Circumventing unusual aging phenomena. <i>Journal of Membrane Science</i> , 2018, 546, 197-205.	8.2	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.	8.2	40
20	Polyimide Membranes: Ultra-µMicroporous Triptycene-µbased Polyimide Membranes for High-µPerformance Gas Separation (Adv. Mater. 22/2014). Advanced Materials, 2014, 26, 3775-3775.	21.0	6