Henry C Foley

List of Publications by Year
in descending order

72 papers	3,351 citations	147566 31 h-index	138251 58 g-index
73 all docs	73 docs citations	73 times ranked	3516 citing authors

#	Article	IF	Citations
1	Long cycle life microporous spherical carbon anodes for sodium-ion batteries derived from furfuryl alcohol. Journal of Materials Chemistry A, 2016, 4, 6271-6275.	5.2	46
2	Enhanced ammonia adsorption on functionalized nanoporous carbons. Microporous and Mesoporous Materials, 2015, 218, 15-23.	2.2	68
3	Importance of Density in the Design of New Adsorbents for Technological Applications. Industrial & Engineering Chemistry Research, 2014, 53, 19649-19652.	1.8	3
4	Synthesis of carbon with bimodal porosity by simultaneous polymerization of furfuryl alcohol and phloroglucinol. Microporous and Mesoporous Materials, 2014, 196, 235-242.	2.2	14
5	Characterization of Micro- and Mesoporous Materials Using Accelerated Dynamics Adsorption. Langmuir, 2013, 29, 12400-12409.	1.6	5
6	Surface compression of light adsorbates inside microporous PFA-derived carbons. Carbon, 2013, 60, 538-549.	5.4	34
7	Localized crystallization of polyfurfuryl alcohol derived carbon by alkali metals. Carbon, 2013, 56, 109-120.	5.4	11
8	Platinum embedded within carbon nanospheres for shape selective liquid phase hydrogenation. Carbon, 2013, 57, 485-497.	5.4	16
9	On the effects of emulsion polymerization of furfuryl alcohol on the formation of carbon spheres and other structures derived by pyrolysis of polyfurfuryl alcohol. Carbon, 2013, 51, 85-93.	5.4	37
10	Molecular sieving carbon catalysts for liquid phase reactions: Study of alkene hydrogenation using platinum embedded nanoporous carbon. Journal of Molecular Catalysis A, 2013, 367, 61-68.	4.8	8
11	High pressure hydrogen adsorption apparatus: Design and error analysis. International Journal of Hydrogen Energy, 2012, 37, 9123-9136.	3.8	23
12	Challenges and opportunities in engineered retrofits of buildings for improved energy efficiency and habitability. AICHE Journal, 2012, 58, 658-667.	1.8	16
13	Carbon-based Membranes for Separation Processes. , 2011, , .		26
14	High energy density capacitor using coal tar pitch derived nanoporous carbon/MnO2 electrodes in aqueous electrolytes. Journal of Power Sources, 2011, 196, 2380-2386.	4.0	49
15	Configurations of Carbon Membranes. , 2011, , 17-27.		2
16	Preparation of Carbon Membranes. , 2011, , 29-91.		3
17	Current Research and Future Direction. , 2011, , 299-317.		0
18	High temperature rearrangement of disordered nanoporous carbon at the interface with single wall carbon nanotubes. Carbon, 2009, 47, 2303-2309.	5.4	11

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19	Surface Initiated Growth of Poly(ethyl 2-cyanoacrylate) Nanofibers on Surface-Modified Glass Substrates. Chemistry of Materials, 2009, 21, 831-842.	3.2	12
20	Overcoming the barrier to graphitization in a polymer-derived nanoporous carbon. Carbon, 2008, 46, 501-510.	5.4	63
21	High performance nanoporous carbon membranes for air separation. Carbon, 2007, 45, 1267-1278.	5.4	58
22	Synthesis of nanoporous carbon with pre-graphitic domains. Carbon, 2007, 45, 2307-2310.	5.4	41
23	Development and characterization of nanoporous carbon membranes for protein ultrafiltration. Journal of Membrane Science, 2007, 295, 40-49.	4.1	57
24	Catalytic Polymerization and Facile Grafting of Poly(furfuryl alcohol) to Single-Wall Carbon Nanotube:Â Preparation of Nanocomposite Carbon. Journal of the American Chemical Society, 2006, 128, 11307-11313.	6.6	74
25	Modification of macroporous stainless steel supports with silica nanoparticles for size selective carbon membranes with improved flux. Carbon, 2006, 44, 2051-2058.	5.4	26
26	Genesis of porosity in polyfurfuryl alcohol derived nanoporous carbon. Carbon, 2006, 44, 2957-2963.	5.4	135
27	Preparation and Characterization of NPC/SWNT Nanocomposite. Materials Research Society Symposia Proceedings, 2006, 963, 1.	0.1	0
28	Carbon Membranes: A Viable Technology for the Recovery and Purification of Hydrogen Gas. Materials Research Society Symposia Proceedings, 2006, 971, 1.	0.1	0
29	Novel Heteropolyacid Nanoporous Carbon Reactive Barriers for Supra-Equilibrium Conversion and In Situ Component Separation. Industrial & Engineering Chemistry Research, 2005, 44, 6414-6422.	1.8	5
30	A simple model describes the PDF of a non-graphitizing carbon. Carbon, 2004, 42, 2041-2048.	5.4	63
31	Molecular sieving platinum nanoparticle catalysts kinetically frozen in nanoporous carbon. Chemical Communications, 2004, , 2498.	2.2	30
32	Templated pyrolytic carbon: the effect of poly(ethylene glycol) molecular weight on the pore size distribution of poly(furfuryl alcohol)-derived carbon. Carbon, 2003, 41, 2501-2508.	5.4	32
33	Modeling ideal selectivity variation in nanoporous membranes. Chemical Engineering Science, 2003, 58, 2745-2758.	1.9	10
34	Nanoporous carbide-derived carbon with tunable pore size. Nature Materials, 2003, 2, 591-594.	13.3	653
35	Using nanoporous carbon membranes in fuel cells. Materials Research Society Symposia Proceedings, 2003, 801, 181.	0.1	0
36	Porous carbon nanoturf using anodized alumina templating. Materials Research Society Symposia Proceedings, 2003, 788, 671.	0.1	0

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37	Study of the Dispersion of Platinum Nanoparticles in Nanoporous Carbon. Microscopy and Microanalysis, 2003, 9, 422-423.	0.2	0
38	New Directions with Carbogenic Molecular Sieve Materials. , 2002, , 39-58.		0
39	Study of the effect of hydrogen on Pt supported Nanoporous Carbon derived from Polyfurfuryl alcohol. Materials Research Society Symposia Proceedings, 2002, 756, 1.	0.1	0
40	Synthesis, Characterization and the gas phase catalytic activity of metal doped nanoporous carbon. Materials Research Society Symposia Proceedings, 2002, 738, 1541.	0.1	0
41	Study of the effect of morphology of nanoporous carbon membranes on permselectivity. Materials Research Society Symposia Proceedings, 2002, 752, 1.	0.1	1
42	Ultrafiltration membrane synthesis by nanoscale templating of porous carbon. Journal of Membrane Science, 2002, 198, 173-186.	4.1	42
43	Temperature- and pressure-dependent transient analysis of single component permeation through nanoporous carbon membranes. Carbon, 2002, 40, 1029-1041.	5.4	34
44	Structural Modeling of Nanoporous Carbon: A Review of Approaches to Simulating an Aperiodic and Non-Equilibrium Solid. Fundamental Materials Research, 2002, , 169-181.	0.1	1
45	Synthesis and characterization of catalytic nanoporous carbon membranes. AICHE Journal, 2001, 47, 66-78.	1.8	28
46	Theoretical calculation of polymer deposition thickness on a cylindrical substrate. AICHE Journal, 2001, 47, 1648-1663.	1.8	1
47	Reproducible production of nanoporous carbon membranes. Carbon, 2001, 39, 1421-1425.	5.4	86
48	Synthesis and Characterization of Heteropolyacid Nanoporous Carbon Membranes. Catalysis Letters, 2001, 74, 177-184.	1.4	8
49	Deconvolution of permeance in supported nanoporous membranes. AICHE Journal, 2000, 46, 651-658.	1.8	16
50	Transport in nanoporous carbon membranes: Experiments and analysis. AICHE Journal, 2000, 46, 911-922.	1.8	25
51	On the preparation of supported nanoporous carbon membranes. Journal of Membrane Science, 2000, 179, 275-282.	4.1	95
52	Simulation of nanoporous carbons: A chemically constrained structure. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1999, 79, 1499-1518.	0.6	81
53	Spray-coating of nanoporous carbon membranes for air separation. Journal of Membrane Science, 1999, 161, 1-5.	4.1	105
54	Ultrasonic Deposition of High-Selectivity Nanoporous Carbon Membranes. Science, 1999, 285, 1902-1905.	6.0	330

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55	Spontaneous formation of carbon nanotubes and polyhedra from cesium and amorphous carbon. Chemical Physics Letters, 1998, 292, 352-356.	1.2	21
56	Adsorption of halocarbons on a carbon molecular sieve. Microporous and Mesoporous Materials, 1998, 22, 281-288.	2.2	15
57	Effect of Nanopore Size Distributions on Trichloroethylene Adsorption and Desorption on Carbogenic Adsorbents. Industrial & Engineering Chemistry Research, 1998, 37, 2416-2425.	1.8	12
58	Metal-Supported Carbogenic Molecular Sieve Membranes:â€‰ Synthesis and Applications. Industrial & Engineering Chemistry Research, 1997, 36, 2924-2930.	1.8	55
59	Effect of Porosity of Carbogenic Molecular Sieve Catalysts on Ethylbenzene Oxidative Dehydrogenation. Industrial & Engineering Chemistry Research, 1996, 35, 3319-3331.	1.8	32
60	Symmetry Breaking in Nanostructure Development of Carbogenic Molecular Sieves:Â Effects of Morphological Pattern Formation on Oxygen and Nitrogen Transport. Chemistry of Materials, 1996, 8, 2159-2171.	3.2	32
61	Local Microstructural Organization in Carbogenic Molecular Sieves. Materials Research Society Symposia Proceedings, 1996, 431, 9.	0.1	2
62	Carbogenic molecular sieves: synthesis, properties and applications. Microporous Materials, 1995, 4, 407-433.	1.6	240
63	Argon porosimetry of selected molecular sieves: experiments and examination of the adapted Horvath-Kawazoe model. Microporous Materials, 1995, 3, 531-542.	1.6	105
64	High-resolution nitrogen and argon adsorption on ZSM-5 zeolites: effects of cation exchange and ratio. Microporous Materials, 1995, 3, 543-556.	1.6	71
65	Adsorbate Shape Selectivity: Separation of the HF/HFC134a Azeotrope over Carbogenic Molecular Sieve. Industrial & Engineering Chemistry Research, 1995, 34, 992-996.	1.8	14
66	Shape selective methylamines synthesis: Reaction and diffusion in a CMs-SiO2-Al2O3 composite catalyst. Chemical Engineering Science, 1994, 49, 4771-4786.	1.9	37
67	Calculation of Micropore Sizes in Carbogenic Materials from the Methyl Chloride Adsorption Isotherm. Industrial & Engineering Chemistry Research, 1994, 33, 2314-2321.	1.8	61
68	Evolution of Ultramicroporous Adsorptive Structure in Poly(furfuryl alcohol)-Derived Carbogenic Molecular Sieves. Industrial & Engineering Chemistry Research, 1994, 33, 607-615.	1.8	86
69	Effect of a Model Hydrogenation on a Catalytic Palladium Membrane. ACS Symposium Series, 1993, , 168-184.	0.5	10
70	Poly(furfuryl alcohol)-derived carbon molecular sieves: dependence of adsorptive properties on carbonization temperature, time, and poly(ethylene glycol) additives. Industrial & Engineering Chemistry Research, 1991, 30, 865-873.	1.8	61
71	Reaction phenomena in a nonthermal equilibrium plasma. AICHE Journal, 1990, 36, 1439-1443.	1.8	4
72	Carbon Molecular Sieves. ACS Symposium Series, 1988, , 335-360.	0.5	9