Mr Othman

List of Publications by Year
in descending order

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Version: 2024-02-01

104 papers	3,717 citations	185998 28 h-index	138251 58 g-index
104 all docs	104 docs citations	104 times ranked	3979 citing authors

#	Article	IF	Citations
1	Unveiling the critical role of biogas compositions on carbon dioxide separation in biogas upgrading using pressure swing adsorption. Biomass Conversion and Biorefinery, 2023, 13, 13827-13840.	2.9	5
2	Biogas upgrading to fuel grade methane using pressure swing adsorption: Parametric sensitivity analysis on an industrial scale. Fuel, 2022, 308, 121986.	3.4	28
3	Role of heat dissipation on carbon dioxide capture performance in biomethane upgrading system using pressure swing adsorption. Separation and Purification Technology, 2022, 280, 119959.	3.9	19
4	Effect of adsorptionâ€“desorption on hydrogen purity and recovery in non-adiabatic pressure swing mediated by microporous palm kernel shell adsorbent. Fuel, 2022, 311, 122550.	3.4	11
5	Biomethane upgrading to transportation fuel quality using spent coffee for carbon dioxide capture in pressure swing adsorption. Journal of Environmental Chemical Engineering, 2022, 10, 107169.	3.3	22
6	Experimental study and static numerical optimization of scalable design of non-adiabatic and non-isothermal pressure swing adsorption for biogas upgrading. Energy, 2022, 257, 124781.	4.5	10
7	Effects of membrane processed renewable biogas fuels on natural gas designed turbine's power cycle and fuel consumption. Biomass and Bioenergy, 2022, 163, 106530.	2.9	5
8	Optimizing autocatalysis with uncertainty by derivativeâ€free estimators. Optimal Control Applications and Methods, 2021, 42, 180-194.	1.3	3
9	Dynamic Optimization of Autocatalytic Esterification in a Semiâ€batch Reactor. Chemical Engineering and Technology, 2021, 44, 648-660.	0.9	6
10	Methane enrichment in biogas mixture using pressure swing adsorption: process fundamental and design parameters. Materials Today Sustainability, 2021, 11-12, 100063.	1.9	33
11	Esoteric CO adsorption by CuCl-NiCl2 embedded microporous MIL-101 (Cr). Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 615, 126242.	2.3	22
12	Microporous Mo-UiO-66 Metalâ€“Organic Framework Nanoparticles as Gas Adsorbents. ACS Applied Nano Materials, 2021, 4, 4895-4901.	2.4	11
13	Effects of membrane selectivity and configuration on methane purity and recovery from high carbon dioxide content natural gas. Journal of Natural Gas Science and Engineering, 2021, 89, 103882.	2.1	7
14	Effect of acidic products from degradation of N-methyldiethanolamine amine on CO2/H2S capturing from natural gas. Clean Technologies and Environmental Policy, 2021, 23, 2133-2144.	2.1	4
15	A review on application of activated carbons for carbon dioxide capture: present performance, preparation, and surface modification for further improvement. Environmental Science and Pollution Research, 2021, 28, 43329-43364.	2.7	73
16	Metal-silica spherical particles development by spray pyrolysis: Effect of metal species on surface area and toluene adsorption. Journal of Analytical and Applied Pyrolysis, 2021, 156, 105049.	2.6	3
17	Freeze Granulation of Nanoporous UiO-66 Nanoparticles for Capture of Volatile Organic Compounds. ACS Applied Nano Materials, 2021, 4, 8863-8871.	2.4	11
18	Evaluation of thermal effects on carbon dioxide breakthrough curve for biogas upgrading using pressure swing adsorption. Energy Conversion and Management, 2021, 247, 114752.	4.4	26

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19	Polyunsaturated Fatty Acid Fractionation from Crude Palm Oil (CPO). Processes, 2021, 9, 2183.	1.3	5
20	Microporous ZIF-8 and ZIF-67 membranes grown on mesoporous alumina substrate for selective propylene transport. Separation and Purification Technology, 2020, 233, 116026.	3.9	37
21	ZIF-8 tubular membrane for propylene purification: Effect of surface curvature and zinc salts on separation performance. Separation and Purification Technology, 2020, 251, 117354.	3.9	17
22	Composite Catalyst of Palm Mill Fly Ash-Supported Calcium Oxide Obtained from Eggshells for Transesterification of Off-Grade Palm Oil. Catalysts, 2020, 10, 724.	1.6	10
23	Carbon dioxide removal through physical adsorption using carbonaceous and non-carbonaceous adsorbents: A review. Journal of Environmental Chemical Engineering, 2020, 8, 104142.	3.3	142
24	Effect of pressure equalization on methane enrichment from stranded natural gas using<scp>PSA</scp>with amorphous Kenaf and microporous palm kernel shell adsorbents. International Journal of Energy Research, 2020, 44, 6555-6566.	2.2	15
25	Evaluation the effect of the ambient temperature on the liquid petroleum gas transportation pipeline. Chemical Product and Process Modeling, 2020, .	0.5	0
26	Optimizing purity and recovery of biogas methane enrichment process in a closed landfill. Renewable Energy, 2019, 131, 1117-1127.	4.3	27
27	Development of microporous Zr-MOF UiO-66 by sol-gel synthesis for CO2 capture from synthetic gas containing CO2 and H2. AIP Conference Proceedings, 2019, , .	0.3	3
28	Optimizing purity and recovery of hydrogen from syngas by equalized pressure swing adsorption using palm kernel shell activated carbon adsorbent. AIP Conference Proceedings, 2019, , .	0.3	4
29	Carbon dioxide separation from carbon dioxide-methane gas mixture using PSA utilizing inorganic and organic adsorbents. AIP Conference Proceedings, 2019, , .	0.3	1
30	Methane enrichment from high carbon dioxide content natural gas by pressure swing adsorption. Journal of Natural Gas Science and Engineering, 2019, 69, 102929.	2.1	22
31	Adsorption of brilliant green dye in aqueous medium using magnetic adsorbents prepared from rice husk ash. AIP Conference Proceedings, 2019, , .	0.3	1
32	Starch as novel water soluble biopolymer in removal mixtures heavy metal ions via polymer enhanced ultrafiltration. AIP Conference Proceedings, 2019, , .	0.3	5
33	Optimizing atmospheric distillation unit for maximum light petroleum gas yield and comparative case studies. AIP Conference Proceedings, 2019, , .	0.3	4
34	Improved predictive capability of coagulation process by extreme learning machine with radial basis function. Journal of Water Process Engineering, 2019, 32, 100977.	2.6	20
35	Hydrogen purification from binary syngas by PSA with pressure equalization using microporous palm kernel shell activated carbon. Fuel, 2019, 253, 722-730.	3.4	25
36	Comparative analyses of carbon dioxide capture from power plant flue gas surrogate by micro and mesoporous adsorbents. Journal of Environmental Chemical Engineering, 2019, 7, 103115.	3.3	19

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37	Microporous ZIF-8 membrane prepared from secondary growth for improved propylene permeance and selectivity. Microporous and Mesoporous Materials, 2019, 285, 178-184.	2.2	40
38	Research Trend on ZIF-8 Membranes for Propylene Separation. Membrane Journal, 2019, 29, 67-79.	0.2	7
39	Flared Gas Emission Control from an Oil Production Platform. Journal of Physical Science, 2019, 30, 125-147.	0.5	4
40	Rapid solvothermal synthesis of microporous UiO-66 particles for carbon dioxide capture. Korean Journal of Chemical Engineering, 2018, 35, 764-769.	1.2	27
41	Hydrodeoxygenation of 2-furyl methyl ketone as a model compound of algal Saccharina Japonica bio-oil using iron phosphide catalyst. Chemical Engineering Journal, 2017, 317, 302-308.	6.6	22
42	Bio-ETBE determination in a mixture of gasoline using low level liquid scintillation counting. Journal of Industrial and Engineering Chemistry, 2017, 49, 26-29.	2.9	2
43	Flow dynamics of gases inside hydrotalcite-silica micropores. Microporous and Mesoporous Materials, 2017, 246, 37-42.	2.2	7
44	Continuous synthesis of molybdenum oxide microspheres by ultrasonic spray pyrolysis. Journal of Industrial and Engineering Chemistry, 2017, 47, 254-259.	2.9	19
45	Complete removal of carbon monoxide by functional nanoparticles for hydrogen fuel cell application. Chemical Engineering Science, 2017, 172, 688-693.	1.9	8
46	Effect of Mullite Formation on Properties of Aluminosilicate Ceramic Balls. Procedia Chemistry, 2016, 19, 922-928.	0.7	13
47	In-situ mineralization of carbon dioxide in a coal-fired power plant. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2016, 38, 606-611.	1.2	28
48	Microporous ZIF-7 membranes prepared by in-situ growth method for hydrogen separation. International Journal of Hydrogen Energy, 2016, 41, 10366-10373.	3.8	25
49	Polysulfone/poly(ether sulfone) blended membranes for CO₂ separation. Journal of Applied Polymer Science, 2016, 133, .	1.3	55
50	Improving the yield of Jatropha curcas's FAME through solâ€“gel derived meso-porous hydrotalcites. Renewable Energy, 2016, 86, 68-74.	4.3	24
51	Pressure Swing Adsorption Technologies for Carbon Dioxide Capture. Separation and Purification Reviews, 2016, 45, 108-121.	2.8	62
52	Highly Perm-Selective Micro-Porous Hydrotalcite-Silica Membrane for Improved Carbon Dioxide-Methane Separation. Separation Science and Technology, 2015, 50, 1701-1708.	1.3	12
53	Zeolitic imidazolate framework membranes for gas separation: A review of synthesis methods and gas separation performance. Journal of Industrial and Engineering Chemistry, 2015, 28, 1-15.	2.9	129
54	Conversion ofSagaSeeds into Adsorbent and Liquid Fuel from Pyrolysis and Solvent Extraction. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2015, 37, 2437-2442.	1.2	6

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55	Magneto-electro deposition of tin dendrites. Surface and Coatings Technology, 2015, 264, 66-71.	2.2	10
56	Highly selective micro-porous ZIF-8 membranes prepared by rapid electrospray deposition. Journal of Industrial and Engineering Chemistry, 2015, 21, 575-579.	2.9	37
57	SURFACE AFFINITY AND INTERDIFFUSIVITY OF CARBON DIOXIDE INSIDE HYDROTALCITE-SILICA MICROPORES: CO2 INTERDIFFUSION INSIDE HT-Si MICROPORES. Journal of Porous Media, 2015, 18, 379-388.	1.0	11
58	Nano Ni layered anode for enhanced MCFC performance at reduced operating temperature. International Journal of Hydrogen Energy, 2014, 39, 12285-12290.	3.8	15
59	Predominant Gas Transport in Microporous Hydrotalciteâ€“Silica Membrane. Transport in Porous Media, 2014, 102, 59-70.	1.2	13
60	YSZ-carbonate dual-phase membranes for high temperature carbon dioxide separation. Journal of Industrial and Engineering Chemistry, 2014, 20, 3703-3708.	2.9	24
61	Hydrodeoxygenation of 2-furyl methyl ketone as a model compound in bio-oil from pyrolysis of Saccharina Japonica Alga in fixed-bed reactor. Chemical Engineering Journal, 2014, 250, 157-163.	6.6	39
62	Nanophase Hydroxyapatite as a Biomaterial in Advanced Hard Tissue Engineering: A Review. Tissue Engineering - Part B: Reviews, 2013, 19, 431-441.	2.5	208
63	Conversion of Jatropha curcas oil into biodiesel using re-crystallized hydrotalcite. Energy Conversion and Management, 2013, 73, 128-134.	4.4	65
64	Present technologies for hydrogen sulfide removal from gaseous mixtures. Reviews in Chemical Engineering, 2013, 29, .	2.3	111
65	Hydrogen sulfide-resilient anodes for molten carbonate fuel cells. Journal of Power Sources, 2013, 230, 282-289.	4.0	10
66	Pore morphological identification of hydrotalcite from nitrogen adsorption. Chaos, Solitons and Fractals, 2013, 49, 7-15.	2.5	8
67	Etherification of glycerol to polyglycerols over hydrotalcite catalyst prepared using a combustion method. Catalysis Communications, 2013, 32, 67-70.	1.6	19
68	Hydroxyapatite nanoparticles: Electrospinning and calcination of hydroxyapatite/polyvinyl butyral nanofibers and growth kinetics. Journal of Biomedical Materials Research - Part A, 2013, 101A, 1977-1985.	2.1	13
69	Characteristics of Alumina Membranes Prepared From Different Metal-Organic Compounds. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2012, 42, 928-934.	0.6	12
70	In situ carbon dioxide capture and fixation from a hot flue gas. International Journal of Greenhouse Gas Control, 2012, 6, 179-188.	2.3	28
71	Improved carbon dioxide capture using metal reinforced hydrotalcite under wet conditions. International Journal of Greenhouse Gas Control, 2012, 7, 127-136.	2.3	59
72	Improved molten carbonate fuel cell performance via reinforced thin anode. International Journal of Hydrogen Energy, 2012, 37, 16161-16167.	3.8	18

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73	A flow through behavior of gas across meso-porous membranes. Microporous and Mesoporous Materials, 2012, 163, 115-121.	2.2	6
74	Separability of hydrogen from hydrogenâ€“carbon dioxide mixture across silicaâ€“silicalite-1 film. Fuel Processing Technology, 2011, 92, 428-432.	3.7	7
75	Elevated temperature carbon dioxide capture via reinforced metal hydrotalcite. Microporous and Mesoporous Materials, 2011, 138, 110-117.	2.2	52
76	High sensitivity and fast response SnO2 and La-SnO2 catalytic pellet sensors in detecting volatile organic compounds. Chemical Engineering Research and Design, 2011, 89, 186-192.	2.7	35
77	10.2478/s11814-009-0338-9. , 2011, 27, 163.		0
78	Thermodynamic Functions of Temperature/Pressure-Induced Sorption across Microporous Membranes: Case Study of Methane and Carbon Dioxide. Adsorption Science and Technology, 2010, 28, 179-188.	1.5	16
79	Thermogravimetric characteristics and pyrolysis kinetics of Giheung Respia sewage sludge. Korean Journal of Chemical Engineering, 2010, 27, 163-167.	1.2	28
80	Simulated fractal permeability for porous membranes. Applied Mathematical Modelling, 2010, 34, 2452-2464.	2.2	41
81	The conversion of an organometallic compound into an intercalated thinâ€layer amorphous structure. Applied Organometallic Chemistry, 2009, 23, 403-408.	1.7	13
82	Strategic planning on carbon capture from coal fired plants in Malaysia and Indonesia: A review. Energy Policy, 2009, 37, 1718-1735.	4.2	58
83	Technologies for production of biodiesel focusing on green catalytic techniques: A review. Fuel Processing Technology, 2009, 90, 1502-1514.	3.7	551
84	Separability of carbon dioxide from methane using MFI zeoliteâ€“silica film deposited on gamma-alumina support. Microporous and Mesoporous Materials, 2009, 121, 138-144.	2.2	54
85	Permeability and separability of methane and carbon dioxide across meso-porous Mgâ€“Al hydrotalcite and activated carbon media. Chemical Engineering Science, 2009, 64, 925-929.	1.9	16
86	Solid heterogeneous catalysts for transesterification of triglycerides with methanol: A review. Applied Catalysis A: General, 2009, 363, 1-10.	2.2	506
87	Fractal Rate of Adsorption and Surface Diffusivity of Carbon Dioxide across Mesoporous Adsorbents. Adsorption Science and Technology, 2009, 27, 893-906.	1.5	9
88	Carbonaceous Hibiscus cannabinus L. for treatment of oil- and metal-contaminated water. Biochemical Engineering Journal, 2008, 41, 171-174.	1.8	15
89	The study of the conversion of intercalated compounds synthesized from a sol-gel procedure. Journal of Sol-Gel Science and Technology, 2008, 47, 274-282.	1.1	24
90	Permeation characteristics of H2, N2 and CO2 in a binary mixture across meso-porous Al2O3 and Pdâ€“Al2O3 asymmetric composites. Microporous and Mesoporous Materials, 2008, 112, 403-410.	2.2	27

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91	The CO2 adsorptive and regenerative behaviors of Rhizopus oligosporus and carbonaceous Hibiscus cannabinus exposed to thermal swings. Microporous and Mesoporous Materials, 2008, 110, 363-369.	2.2	16
92	The effects of sonification and TiO2 deposition on the micro-characteristics of the thermally treated SiO2/TiO2 spherical coreâ€“shell particles for photo-catalysis of methyl orange. Microporous and Mesoporous Materials, 2008, 116, 561-568.	2.2	81
93	Synthesis and Characterization of Nano-Composite Alumina?Titania Ceramic Membrane for Gas Separation. Journal of the American Ceramic Society, 2006, 89, 3187-3193.	1.9	22
94	Mgâ€“Al hydrotalcite coating on zeolites for improved carbon dioxide adsorption. Chemical Engineering Science, 2006, 61, 1555-1560.	1.9	126
95	Effects of thermal treatment on the micro-structures of co-precipitated and solâ€“gel synthesized (Mgâ€“Al) hydrotalcites. Microporous and Mesoporous Materials, 2006, 93, 23-28.	2.2	47
96	On the characteristics and hydrogen adsorption properties of a Pd/Î³-Al2O3 prepared by solâ€“gel method. Microporous and Mesoporous Materials, 2006, 91, 145-150.	2.2	27
97	Effect of thermal treatment on the microstructure of solâ€“gel derived porous alumina modified platinum. Microporous and Mesoporous Materials, 2006, 91, 268-275.	2.2	37
98	Preparation of perovskite alumina ceramic membrane using solâ€“gel method. Journal of Membrane Science, 2005, 262, 129-137.	4.1	34
99	Comparative analysis on equilibrium sorption of metal ions by biosorbent Tempe. Biochemical Engineering Journal, 2003, 16, 361-364.	1.8	15
100	Characterization of macro-scale heterogeneity and homogeneity of porous media employing fractal geometry. Chaos, Solitons and Fractals, 2002, 13, 845-852.	2.5	7
101	Characteristics of unsupported alumina membrane prepared using sol-gel technique. ASEAN Journal on Science and Technology for Development, 2001, 18, .	0.2	1
102	Synthetic Hydrotalcite Prepared from Modified Combustion Method Using Glucose as Fuel. Advanced Materials Research, 0, 173, 146-149.	0.3	0
103	Production of Layered Hydrotalcite Using Tapai as Fuel. Advanced Materials Research, 0, 545, 401-404.	0.3	0
104	Porous Ceramic Supports Prepared from Porcelain Mixture. Advanced Materials Research, 0, 620, 389-394.	0.3	0