# Paul A. Webley

# List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

266 13,038 58 105 h-index g-index citations papers 6.79 6.9 276 15,132 avg, IF L-index ext. papers ext. citations

#	Paper	IF	Citations
266	Gating effect for gas adsorption in microporous materials-mechanisms and applications <i>Chemical Society Reviews</i> , <b>2022</b> ,	58.5	5
265	Removal of As(V) from wastewaters using magnetic iron oxides formed by zero-valent iron electrocoagulation <i>Journal of Environmental Management</i> , <b>2022</b> , 307, 114519	7.9	0
264	Remediation of As-contaminated soils using citrate extraction coupled with electrochemical removal <i>Science of the Total Environment</i> , <b>2022</b> , 817, 153042	10.2	1
263	The optimal design and operation of a hybrid renewable micro-grid with the decoupled liquid air energy storage. <i>Journal of Cleaner Production</i> , <b>2022</b> , 334, 130189	10.3	О
262	Electrosorption of cadmium and arsenic from wastewaters using nitrogen-doped biochar: Mechanism and application. <i>Journal of Environmental Management</i> , <b>2022</b> , 301, 113921	7.9	3
261	Encapsulation of highly viscous CO2 capture solvents for enhanced capture kinetics: Modeling investigation of mass transfer mechanisms. <i>Chemical Engineering Journal</i> , <b>2022</b> , 428, 131603	14.7	1
260	Research on Adsorption and Desorption Performance of Gas-Phase Naphthalene on Hydrophobic Modified FDU-15. <i>Processes</i> , <b>2022</b> , 10, 574	2.9	
259	Combined remediation effects of biochar, zeolite and humus on Cd-contaminated weakly alkaline soils in wheat farmland <i>Chemosphere</i> , <b>2022</b> , 302, 134851	8.4	О
258	Electroreduction of CO/CO to C Products: Process Modeling, Downstream Separation, System Integration, and Economic Analysis <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 17862-1	7880	3
257	Ultrapermeable Composite Membranes Enhanced Via Doping with Amorphous MOF Nanosheets. <i>ACS Central Science</i> , <b>2021</b> , 7, 671-680	16.8	7
256	Highly dispersed Cu-ZnO-ZrO2 nanoparticles on hydrotalcite adsorbent as efficient composite catalysts for CO2 hydrogenation to methanol. <i>Korean Journal of Chemical Engineering</i> , <b>2021</b> , 38, 747-75.	5 <sup>2.8</sup>	О
255	Recovery of high-purity NO2 and SO2 products from iron-ore sintering flue gas by distillation: process design, optimization and analysis. <i>Separation and Purification Technology</i> , <b>2021</b> , 264, 118308	8.3	4
254	Enrichment of low grade CH4 from N2/CH4 mixtures using vacuum swing adsorption with activated carbon. <i>Chemical Engineering Science</i> , <b>2021</b> , 229, 116152	4.4	13
253	Effect of intermittent purge on O2 production with rapid pressure swing adsorption technology. <i>Adsorption</i> , <b>2021</b> , 27, 181-189	2.6	3
252	NO removal with efficient recycling of NO from iron-ore sintering flue gas: A novel cyclic adsorption process. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 407, 124380	12.8	14
251	Integrated adsorption and absorption process for post-combustion CO2 capture. <i>Frontiers of Chemical Science and Engineering</i> , <b>2021</b> , 15, 483-492	4.5	5
250	Guidelines for Techno-Economic Analysis of Adsorption Processes. <i>Frontiers in Chemical Engineering</i> , <b>2021</b> , 2,	1	6

# (2020-2021)

249	Nitrogen Rejection from Methane via a "Trapdoor" K-ZSM-25 Zeolite. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 15195-15204	16.4	3
248	Adsorption and desorption of gaseous naphthalene on carbonaceous sorbents: Insights into advantageous pore sizes and morphologies. <i>Journal of Cleaner Production</i> , <b>2021</b> , 314, 127905	10.3	3
247	Zeolite-supported manganese oxides decrease the Cd uptake of wheat plants in Cd-contaminated weakly alkaline arable soils. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 419, 126464	12.8	8
246	Experimental study on oxygen concentrator with wide product flow rate range: individual parametric effect and process improvement strategy. <i>Separation and Purification Technology</i> , <b>2021</b> , 274, 118918	8.3	1
245	Polyrotaxane-based thin film composite membranes for enhanced nanofiltration performance. <i>Separation and Purification Technology</i> , <b>2020</b> , 246, 116893	8.3	2
244	Remediation of heavy metal contaminated soils by organic acid extraction and electrochemical adsorption. <i>Environmental Pollution</i> , <b>2020</b> , 264, 114745	9.3	36
243	Adsorption and catalytic oxidation of arsenite on Fe-Mn nodules in the presence of oxygen. <i>Chemosphere</i> , <b>2020</b> , 259, 127503	8.4	5
242	Electrochemical adsorption of cadmium and arsenic by natural Fe-Mn nodules. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 390, 122165	12.8	8
241	Separation of CO2 and CH4 by Pressure Swing Adsorption Using a Molecular Trapdoor Chabazite Adsorbent for Natural Gas Purification. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 7857	- <b>78</b> 65	12
240	3-D Modeling of GasBolid Two-Phase Flow in a Eshaped Centripetal Radial Flow Adsorber. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 614	2.6	
239	Synthesis of Ni5Ga3 catalyst by Hydrotalcite-like compound (HTlc) precursors for CO2 hydrogenation to methanol. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 275, 119067	21.8	9
238	High-throughput CO2 capture using PIM-1@MOF based thin film composite membranes. <i>Chemical Engineering Journal</i> , <b>2020</b> , 396, 125328	14.7	35
237	Effects of Co(II) ion exchange, Ni(II)- and V(V)-doping on the transformation behaviors of Cr(III) on hexagonal turbostratic birnessite-water interfaces. <i>Environmental Pollution</i> , <b>2020</b> , 256, 113462	9.3	9
236	Nitrogen Availability and the Nature of Extracellular Organic Matter of Microalgae. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 6795-6805	3.9	9
235	Synergistic adsorption of Cd(II) and As(V) on birnessite under electrochemical control. <i>Chemosphere</i> , <b>2020</b> , 247, 125822	8.4	3
234	High-efficiency As(III) oxidation and electrocoagulation removal using hematite with a charge-discharge technique. <i>Science of the Total Environment</i> , <b>2020</b> , 703, 135678	10.2	8
233	Physical Aging Investigations of a Spirobisindane-Locked Polymer of Intrinsic Microporosity <b>2020</b> , 2, 993	3-998	6
232	Insights into adsorption separation of N2/O2 mixture on FAU zeolites under plateau special conditions: A molecular simulation study. <i>Separation and Purification Technology</i> , <b>2020</b> , 251, 117405	8.3	8

231	Advances in carbon capture, utilization and storage. <i>Applied Energy</i> , <b>2020</b> , 278, 115627	10.7	36
230	CO2 capture from high concentration CO2 natural gas by pressure swing adsorption at the CO2CRC Otway site, Australia. <i>International Journal of Greenhouse Gas Control</i> , <b>2019</b> , 83, 1-10	4.2	19
229	Promoting CO2 hydrogenation to methanol by incorporating adsorbents into catalysts: Effects of hydrotalcite. <i>Chemical Engineering Journal</i> , <b>2019</b> , 378, 122052	14.7	23
228	Postcombustion Carbon Capture Using Thin-Film Composite Membranes. <i>Accounts of Chemical Research</i> , <b>2019</b> , 52, 1905-1914	24.3	35
227	Two-Dimensional Modeling of Pressure Swing Adsorption (PSA) Oxygen Generation with Radial-Flow Adsorber. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 1153	2.6	5
226	Solvent Impregnated Polymers for Carbon Capture. <i>Industrial &amp; Damp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 6626-6634	3.9	8
225	The effect of nitrogen depletion on the cell size, shape, density and gravitational settling of Nannochloropsis salina, Chlorella sp. (marine) and Haematococcus pluvialis. <i>Algal Research</i> , <b>2019</b> , 39, 101454	5	20
224	Practical separation performance evaluation of coal mine methane upgrading with carbon molecular sieves. <i>Chemical Engineering Journal</i> , <b>2019</b> , 367, 295-303	14.7	21
223	Towards sustainable microalgal biomass processing: anaerobic induction of autolytic cell-wall self-ingestion in lipid-rich Nannochloropsis slurries. <i>Green Chemistry</i> , <b>2019</b> , 21, 2967-2982	10	17
222	Thermodynamic analysis of molecular simulations of N2 and O2 adsorption on zeolites under plateau special conditions. <i>Applied Surface Science</i> , <b>2019</b> , 480, 868-875	6.7	17
221	Photochemical Formation Process of Schwertmannite on Montmorillonite and Corresponding Cr(VI) Adsorption Capacity. <i>ACS Earth and Space Chemistry</i> , <b>2019</b> , 3, 718-727	3.2	11
220	Improved removal capacity of magnetite for Cr(VI) by electrochemical reduction. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 374, 26-34	12.8	64
219	Enhancing plasticization-resistance of mixed-matrix membranes with exceptionally high CO2/CH4 selectivity through incorporating ZSM-25 zeolite. <i>Journal of Membrane Science</i> , <b>2019</b> , 583, 23-30	9.6	30
218	Molecular Simulation of Naphthalene, Phenanthrene, and Pyrene Adsorption on MCM-41. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	7
217	Additively manufactured, highly-uniform flow distributor for process intensification. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2019</b> , 143, 107595	3.7	10
216	Solar Irradiation Induced Transformation of Ferrihydrite in the Presence of Aqueous Fe. <i>Environmental Science &amp; Environmental Science &amp; Environmental</i>	10.3	12
215	Thermally coupled dark-anoxia incubation: A platform technology to induce auto-fermentation and thus cell-wall thinning in both nitrogen-replete and nitrogen-deplete Nannochloropsis slurries. Bioresource Technology, <b>2019</b> , 290, 121769	11	3
214	Effective Gas Separation Performance Enhancement Obtained by Constructing Polymorphous Core-Shell Metal-Organic Frameworks. <i>ACS Applied Materials &amp; Enhancement Obtained by Constructing Polymorphous Core-Shell Metal-Organic Frameworks.</i>	9.5	9

#### (2018-2019)

213	Intensified isothermal reactor for methanol synthesis. <i>Chemical Engineering and Processing: Process Intensification</i> , <b>2019</b> , 143, 107606	3.7	9
212	Moderate-pressure conversion of H2 and CO2 to methanol via adsorption enhanced hydrogenation. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 21913-21925	6.7	15
211	Solubility of Carbon Monoxide and Hydrogen in Methanol and Methyl Formate: 298B73 K and 0.3B.3 MPa. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2019</b> , 64, 5609-5621	2.8	3
210	Extraction of iron and aluminum from high-iron bauxite by ammonium sulfate roasting and water leaching. <i>Journal of Iron and Steel Research International</i> , <b>2019</b> , 26, 578-584	1.2	6
209	Sr-LSX zeolite for air separation. Chemical Engineering Journal, 2019, 362, 482-486	14.7	29
208	Recent progress on fabrication methods of polymeric thin film gas separation membranes for CO2 capture. <i>Journal of Membrane Science</i> , <b>2019</b> , 572, 38-60	9.6	115
207	Improved methanol yield and selectivity from CO2 hydrogenation using a novel Cu-ZnO-ZrO2 catalyst supported on Mg-Al layered double hydroxide (LDH). <i>Journal of CO2 Utilization</i> , <b>2019</b> , 29, 57-64	1 <sup>7.6</sup>	47
206	CO2 capture using a novel hybrid monolith (H-ZSM5/activated carbon) as adsorbent by combined vacuum and electric swing adsorption (VESA). <i>Chemical Engineering Journal</i> , <b>2019</b> , 358, 707-717	14.7	28
205	An optimal trapdoor zeolite for exclusive admission of CO at industrial carbon capture operating temperatures. <i>Chemical Communications</i> , <b>2018</b> , 54, 3134-3137	5.8	28
204	Life cycle analysis (LCA) of low emission methanol and di-methyl ether (DME) derived from natural gas. <i>Fuel</i> , <b>2018</b> , 220, 871-878	7.1	32
203	A comparison of multicomponent electrosorption in capacitive deionization and membrane capacitive deionization. <i>Water Research</i> , <b>2018</b> , 131, 100-109	12.5	84
202	Heats of adsorption on mixed-cation LiNa-LSX: Estimating SIII site occupancy by Li. <i>Chemical Engineering Science</i> , <b>2018</b> , 178, 194-198	4.4	8
201	Preparation, characterization and catalytic performance of Cu nanowire catalyst for CO2 hydrogenation. <i>Journal of Central South University</i> , <b>2018</b> , 25, 691-700	2.1	4
200	Carbon capture and storage (CCS): the way forward. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 1062-1	137564	1368
199	Continuous assembly of a polymer on a metal®rganic framework (CAP on MOF): a 30 nm thick polymeric gas separation membrane. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 544-550	35.4	93
198	Li+/ZSM-25 Zeolite as a CO2 Capture Adsorbent with High Selectivity and Improved Adsorption Kinetics, Showing CO2-Induced Framework Expansion. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 1893	3- <sup>3</sup> :894	1 <sup>21</sup>
197	High-performance Cu adsorption of birnessite using electrochemically controlled redox reactions. Journal of Hazardous Materials, <b>2018</b> , 354, 107-115	12.8	32
196	A numerical modelling study of SO2 adsorption on activated carbons with new rate equations. <i>Chemical Engineering Journal</i> , <b>2018</b> , 353, 858-866	14.7	25

195	Synthesis of a novel hybrid adsorbent which combines activated carbon and zeolite NaUSY for CO2 capture by electric swing adsorption (ESA). <i>Chemical Engineering Journal</i> , <b>2018</b> , 336, 659-668	14.7	22
194	Simultaneous biogas purification and CO2 capture by vacuum swing adsorption using zeolite NaUSY. <i>Chemical Engineering Journal</i> , <b>2018</b> , 334, 2593-2602	14.7	48
193	Potential for using municipal solid waste as a resource for bioenergy with carbon capture and storage (BECCS). <i>International Journal of Greenhouse Gas Control</i> , <b>2018</b> , 68, 1-15	4.2	77
192	Two-dimensional nanosheet-based gas separation membranes. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 23169-23196	13	70
191	Phenol Molecular Sheets Woven by Water Cavities in Hydrophobic Slit Nanospaces. <i>Langmuir</i> , <b>2018</b> , 34, 15150-15159	4	1
190	Vacuum Exhaust Process in Pilot-Scale Vacuum Pressure Swing Adsorption for Coal Mine Ventilation Air Methane Enrichment. <i>Energies</i> , <b>2018</b> , 11, 1030	3.1	15
189	Ultrathin Metal-Organic Framework Nanosheets as a Gutter Layer for Flexible Composite Gas Separation Membranes. <i>ACS Nano</i> , <b>2018</b> , 12, 11591-11599	16.7	68
188	Enhancement in specific absorption rate by solvent microencapsulation. AICHE Journal, 2018, 64, 4066-	49.79	8
187	MOF Scaffold for a High-Performance Mixed-Matrix Membrane. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 8597-8602	16.4	37
186	MOF Scaffold for a High-Performance Mixed-Matrix Membrane. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 8733-8	873 <b>.8</b>	16
185	Opportunities for application of BECCS in the Australian power sector. <i>Applied Energy</i> , <b>2018</b> , 224, 615-6	5 <b>35</b> 0.7	39
184	Pd(0) loaded Zn2(azoBDC)2(dabco) as a heterogeneous catalyst. <i>CrystEngComm</i> , <b>2017</b> , 19, 4182-4186	3.3	13
183	Can the addition of carbon nanoparticles to a polyimide membrane reduce plasticization?. <i>Separation and Purification Technology</i> , <b>2017</b> , 183, 333-340	8.3	4
182	Increasing both selectivity and permeability of mixed-matrix membranes: Sealing the external surface of porous MOF nanoparticles. <i>Journal of Membrane Science</i> , <b>2017</b> , 535, 350-356	9.6	58
181	Improvement of MCDI operation and design through experiment and modelling: Regeneration with brine and optimum residence time. <i>Desalination</i> , <b>2017</b> , 417, 36-51	10.3	26
180	Intensified Biobutanol Recovery by using Zeolites with Complementary Selectivity. <i>ChemSusChem</i> , <b>2017</b> , 10, 2968-2977	8.3	23
179	Temperature-regulated guest admission and release in microporous materials. <i>Nature Communications</i> , <b>2017</b> , 8, 15777	17.4	36
178	Adsorption thermodynamics and desorption properties of gaseous polycyclic aromatic hydrocarbons on mesoporous adsorbents. <i>Adsorption</i> , <b>2017</b> , 23, 361-371	2.6	18

# (2016-2017)

177	Learnings from CO2CRC Capture Pilot Plant Testing [Assessing Technology Development. <i>Energy Procedia</i> , <b>2017</b> , 114, 5855-5868	2.3	4	
176	A Sustainability Framework for Bioenergy with Carbon Capture and Storage (BECCS) Technologies. <i>Energy Procedia</i> , <b>2017</b> , 114, 6044-6056	2.3	22	
175	A New Multi-bed Vacuum Swing Adsorption Cycle for CO2 Capture from Flue Gas Streams. <i>Energy Procedia</i> , <b>2017</b> , 114, 2467-2480	2.3	19	
174	Impact of operating parameters on CO2 capture using carbon monolith by Electrical Swing Adsorption technology (ESA). <i>Chemical Engineering Journal</i> , <b>2017</b> , 327, 441-453	14.7	27	
173	Performance of mesoporous silicas and carbon in adsorptive removal of phenanthrene as a typical gaseous polycyclic aromatic hydrocarbon. <i>Microporous and Mesoporous Materials</i> , <b>2017</b> , 239, 9-18	5.3	22	
172	The use of reduced copper metal-organic frameworks to facilitate CuAAC click chemistry. <i>Chemical Communications</i> , <b>2016</b> , 52, 12226-12229	5.8	35	
171	Exchange Method Using Acid-Solvent Synergy for Metal Drganic Framework Synthesis (EASY-MOFs) Based on a Typical Pillar-Layered Parent Structure. <i>European Journal of Inorganic Chemistry</i> , <b>2016</b> , 2016, 1466-1469	2.3	5	
170	A density functional theory study for the adsorption of various gases on a caesium-exchanged trapdoor chabazite. <i>Computational Materials Science</i> , <b>2016</b> , 122, 307-313	3.2	13	
169	A comparative study on conversion of porous and non-porous metal®rganic frameworks (MOFs) into carbon-based composites for carbon dioxide capture. <i>Polyhedron</i> , <b>2016</b> , 120, 30-35	2.7	20	
168	Novel low energy hydrogendeuterium isotope breakthrough separation using a trapdoor zeolite. <i>Chemical Engineering Journal</i> , <b>2016</b> , 288, 161-168	14.7	16	
167	CO2 Capture by Temperature Swing Adsorption: Use of Hot CO2-Rich Gas for Regeneration. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 703-713	3.9	98	
166	Strategies for CO2 capture from different CO2 emission sources by vacuum swing adsorption technology. <i>Chinese Journal of Chemical Engineering</i> , <b>2016</b> , 24, 460-467	3.2	16	
165	Functionalized UiO-66 by Single and Binary (OH)2 and NO2 Groups for Uptake of CO2 and CH4. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 7924-7932	3.9	40	
164	Multi-objective optimisation of a hybrid vacuum swing adsorption and low-temperature post-combustion CO2 capture. <i>Journal of Cleaner Production</i> , <b>2016</b> , 111, 193-203	10.3	34	
163	Oxygen selective iron and cobaltthetalloporphyrin polymers Extraordinary selectivity at low temperature. <i>Microporous and Mesoporous Materials</i> , <b>2016</b> , 222, 63-72	5.3	4	
162	The CIDES process: Fractionation of concentrated microalgal paste for co-production of biofuel, nutraceuticals, and high-grade protein feed. <i>Algal Research</i> , <b>2016</b> , 19, 299-306	5	43	
161	Saving, Selling, Earning, and Negotiating: How Adolescents Acquire Monetary Lump Sums and Who Considers Saving. <i>Journal of Consumer Affairs</i> , <b>2016</b> , 50, 342-371	2	7	
160	Performance of mesoporous silicas (MCM-41 and SBA-15) and carbon (CMK-3) in the removal of gas-phase naphthalene: adsorption capacity, rate and regenerability. <i>RSC Advances</i> , <b>2016</b> , 6, 21193-212	.03 <sup>.7</sup>	36	

159	Desorption Kinetics of Naphthalene and Acenaphthene over Two Activated Carbons via Thermogravimetric Analysis. <i>Energy &amp; Description</i> 29, 5303-5310	4.1	16
158	Converting 3D rigid metal-organic frameworks (MOFs) to 2D flexible networks via ligand exchange for enhanced CO2/N2 and CH4/N2 separation. <i>Chemical Communications</i> , <b>2015</b> , 51, 14716-9	5.8	38
157	Assessment of ZIF materials for CO2 capture from high pressure natural gas streams. <i>Chemical Engineering Journal</i> , <b>2015</b> , 280, 486-493	14.7	22
156	CO2 capture by vacuum swing adsorption: role of multiple pressure equalization steps. <i>Adsorption</i> , <b>2015</b> , 21, 509-522	2.6	18
155	Synthesis of well dispersed polymer grafted metal-organic framework nanoparticles. <i>Chemical Communications</i> , <b>2015</b> , 51, 15566-9	5.8	62
154	Effects of amino functionality on uptake of CO2, CH4 and selectivity of CO2/CH4 on titanium based MOFs. <i>Fuel</i> , <b>2015</b> , 160, 318-327	7.1	67
153	Methane Recovery from Coal Bed Gas Using Modified Activated Carbons: A Combined Method for Assessing the Role of Functional Groups. <i>Energy &amp; Energy &amp; Energ</i>	4.1	10
152	Density Functional Theory Computational Study of Alkali Cation-Exchanged Sodalite-like Zeolitelike Metal <b>D</b> rganic Framework for CO2, N2, and CH4 Adsorption. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 27449-27456	3.8	4
151	Effects of feed gas concentration, temperature and process parameters on vacuum swing adsorption performance for CO2 capture. <i>Chemical Engineering Journal</i> , <b>2015</b> , 265, 47-57	14.7	30
150	Nile Red Staining for Oil Determination in Microalgal Cells: A New Insight through Statistical Modelling. <i>International Journal of Chemical Engineering</i> , <b>2015</b> , 2015, 1-14	2.2	7
149	Upgrading Biogas at Low Pressure by Vacuum Swing Adsorption. <i>Industrial &amp; Discourse Industrial &amp; Discourse Indust</i>	3.9	26
148	Adsorption technology for CO2 separation and capture: a perspective. <i>Adsorption</i> , <b>2014</b> , 20, 225-231	2.6	135
147	The role of water on postcombustion CO2 capture by vacuum swing adsorption: Bed layering and purge to feed ratio. <i>AICHE Journal</i> , <b>2014</b> , 60, 673-689	3.6	38
146	Modelling the kinetics of lipid extraction from wet microalgal concentrate: A novel perspective on a classical process. <i>Chemical Engineering Journal</i> , <b>2014</b> , 242, 234-253	14.7	29
145	Temperature controlled invertible selectivity for adsorption of N(2) and CH(4) by molecular trapdoor chabazites. <i>Chemical Communications</i> , <b>2014</b> , 50, 4544-6	5.8	23
144	SiC nanofiber reinforced porous ceramic hollow fiber membranes. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 5841	13	30
143	A facile method to synthesis a mesoporous carbon supported methanol catalyst containing well dispersed Cu/ZnO. <i>Materials Research Bulletin</i> , <b>2014</b> , 60, 232-237	5.1	6
142	Microwave assisted vacuum regeneration for CO2 capture from wet flue gas. <i>Adsorption</i> , <b>2014</b> , 20, 201	-2:16	19

1	41	Biogas upgrading through kinetic separation of carbon dioxide and methane over Rb- and Cs-ZK-5 zeolites. <i>RSC Advances</i> , <b>2014</b> , 4, 62511-62524	3.7	24
1	40	Mesoporous Carbon-supported Cu/ZnO for Methanol Synthesis from Carbon Dioxide. <i>Australian Journal of Chemistry</i> , <b>2014</b> , 67, 907	1.2	10
1	39	Adsorption of CO2, N2, and CH4 in Cs-exchanged chabazite: a combination of van der Waals density functional theory calculations and experiment study. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 084705	3.9	31
1	.38	Effect of the addition of polyvinylpyrrolidone as a pore-former on microstructure and mechanical strength of porous alumina ceramics. <i>Ceramics International</i> , <b>2013</b> , 39, 7551-7556	5.1	46
1	-37	One-step fabrication of ZIF-8/polymer composite spheres by a phase inversion method for gas adsorption. <i>Colloid and Polymer Science</i> , <b>2013</b> , 291, 2711-2717	2.4	35
1	36	A new simplified pressure/vacuum swing adsorption model for rapid adsorbent screening for CO2 capture applications. <i>International Journal of Greenhouse Gas Control</i> , <b>2013</b> , 15, 16-31	4.2	104
1	35	Effects of water vapour on CO2 capture with vacuum swing adsorption using activated carbon. <i>Chemical Engineering Journal</i> , <b>2013</b> , 230, 64-72	14.7	64
1	34	Mechanical cell disruption for lipid extraction from microalgal biomass. <i>Bioresource Technology</i> , <b>2013</b> , 140, 53-63	11	97
1	33	Bioprocess Engineering Aspects of Biodiesel and Bioethanol Production from Microalgae <b>2013</b> , 601-628	3	4
1	.32	Zeolite monoliths with hierarchical designed pore network structure: Synthesis and performance. <i>Chemical Engineering Journal</i> , <b>2013</b> , 223, 48-58	14.7	25
1	.31	Determination of Composition Range for Molecular TrapdoorŒffect in Chabazite Zeolite. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 12841-12847	3.8	70
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