Paul A. Webley

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

#	Paper	IF	Citations
266	Carbon capture and storage (CCS): the way forward. Energy and Environmental Science, 2018, 11, 1062-	13364	1368
265	Extraction of oil from microalgae for biodiesel production: A review. <i>Biotechnology Advances</i> , 2012 , 30, 709-32	17.8	688
264	Oil extraction from microalgae for biodiesel production. <i>Bioresource Technology</i> , 2011 , 102, 178-85	11	496
263	CO2 capture by adsorption: Materials and process development. <i>International Journal of Greenhouse Gas Control</i> , 2007 , 1, 11-18	4.2	320
262	General and controllable synthesis of novel mesoporous magnetic iron oxide@carbon encapsulates for efficient arsenic removal. <i>Advanced Materials</i> , 2012 , 24, 485-91	24	283
261	Highly specific enrichment of glycopeptides using boronic acid-functionalized mesoporous silica. <i>Analytical Chemistry</i> , 2009 , 81, 503-8	7.8	270
260	Capture of CO2 from high humidity flue gas by vacuum swing adsorption with zeolite 13X. <i>Adsorption</i> , 2008 , 14, 415-422	2.6	239
259	Microalgal cell disruption for biofuel development. <i>Applied Energy</i> , 2012 , 91, 116-121	10.7	237
258	Discriminative separation of gases by a "molecular trapdoor" mechanism in chabazite zeolites. Journal of the American Chemical Society, 2012, 134, 19246-53	16.4	226
257	Alkali and alkaline-earth cation exchanged chabazite zeolites for adsorption based CO2 capture. <i>Microporous and Mesoporous Materials</i> , 2008 , 111, 478-487	5.3	220
256	Effect of process parameters on power requirements of vacuum swing adsorption technology for CO2 capture from flue gas. <i>Energy Conversion and Management</i> , 2008 , 49, 346-356	10.6	215
255	Ordered mesoporous platinum@graphitic carbon embedded nanophase as a highly active, stable, and methanol-tolerant oxygen reduction electrocatalyst. <i>Journal of the American Chemical Society</i> , 2012 , 134, 2236-45	16.4	193
254	Facile Synthesis of Hierarchically Porous Carbons from Dual Colloidal Crystal/Block Copolymer Template Approach. <i>Chemistry of Materials</i> , 2007 , 19, 3271-3277	9.6	193
253	Comprehensive study of pore evolution, mesostructural stability, and simultaneous surface functionalization of ordered mesoporous carbon (FDU-15) by wet oxidation as a promising adsorbent. <i>Langmuir</i> , 2010 , 26, 10277-86	4	181
252	Capture of CO2 from flue gas streams with zeolite 13X by vacuum-pressure swing adsorption. <i>Adsorption</i> , 2008 , 14, 575-582	2.6	172
251	Structured adsorbents in gas separation processes. <i>Separation and Purification Technology</i> , 2010 , 70, 243-256	8.3	168
250	One-step hydrothermal synthesis of ordered mesostructured carbonaceous monoliths with hierarchical porosities. <i>Chemical Communications</i> , 2008 , 2641-3	5.8	167

249	Post-enrichment of nitrogen in soft-templated ordered mesoporous carbon materials for highly efficient phenol removal and CO2 capture. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11379		143
248	Adsorption technology for CO2 separation and capture: a perspective. <i>Adsorption</i> , 2014 , 20, 225-231	2.6	135
247	Ordered mesoporous crystalline gamma-Al2O3 with variable architecture and porosity from a single hard template. <i>Journal of the American Chemical Society</i> , 2010 , 132, 12042-50	16.4	129
246	Porous platinum nanowire arrays for direct ethanol fuel cell applications. <i>Chemical Communications</i> , 2009 , 195-7	5.8	127
245	Oxidation kinetics of ammonia and ammonia-methanol mixtures in supercritical water in the temperature range 530-700.degree.C at 246 bar. <i>Industrial & Engineering Chemistry Research</i> , 1991 , 30, 1745-1754	3.9	125
244	Preparation of ZIF-8 membranes supported on ceramic hollow fibers from a concentrated synthesis gel. <i>Journal of Membrane Science</i> , 2011 , 385-386, 187-193	9.6	122
243	Preparation of activated carbons from corncob with large specific surface area by a variety of chemical activators and their application in gas storage. <i>Chemical Engineering Journal</i> , 2010 , 162, 883-8	9 2 4·7	118
242	Critical review of kinetic data for the oxidation of methanol in supercritical water. <i>Journal of Supercritical Fluids</i> , 2005 , 34, 249-286	4.2	117
241	Recent progress on fabrication methods of polymeric thin film gas separation membranes for CO2 capture. <i>Journal of Membrane Science</i> , 2019 , 572, 38-60	9.6	115
240	Fundamental kinetics of methane oxidation in supercritical water. <i>Energy & Fuels</i> , 1991 , 5, 411-419	4.1	112
239	Optimum structured adsorbents for gas separation processes. <i>Chemical Engineering Science</i> , 2009 , 64, 5182-5191	4.4	110
238	Advanced adsorbents based on MgO and K2CO3 for capture of CO2 at elevated temperatures. <i>International Journal of Greenhouse Gas Control</i> , 2011 , 5, 634-639	4.2	106
237	A new simplified pressure/vacuum swing adsorption model for rapid adsorbent screening for CO2 capture applications. <i>International Journal of Greenhouse Gas Control</i> , 2013 , 15, 16-31	4.2	104
236	Cycle development and design for CO2 capture from flue gas by vacuum swing adsorption. <i>Environmental Science & Technology</i> , 2008 , 42, 563-9	10.3	101
235	CO2 Capture by Temperature Swing Adsorption: Use of Hot CO2-Rich Gas for Regeneration. <i>Industrial & Company: Engineering Chemistry Research</i> , 2016 , 55, 703-713	3.9	98
234	Mechanical cell disruption for lipid extraction from microalgal biomass. <i>Bioresource Technology</i> , 2013 , 140, 53-63	11	97
233	Competition of CO2/H2O in adsorption based CO2 capture. <i>Energy Procedia</i> , 2009 , 1, 1123-1130	2.3	94
232	Continuous assembly of a polymer on a metal b rganic framework (CAP on MOF): a 30 nm thick polymeric gas separation membrane. <i>Energy and Environmental Science</i> , 2018 , 11, 544-550	35.4	93

231	A comparison of multicomponent electrosorption in capacitive deionization and membrane capacitive deionization. <i>Water Research</i> , 2018 , 131, 100-109	12.5	84
230	Ordered mesoporous graphitized pyrolytic carbon materials: synthesis, graphitization, and electrochemical properties. <i>Journal of Materials Chemistry</i> , 2012 , 22, 8835		80
229	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> , 2018 , 68, 1-15	4.2	77
228	Direct electrodeposition of porous gold nanowire arrays for biosensing applications. <i>ChemPhysChem</i> , 2009 , 10, 436-41	3.2	73
227	Determination of Composition Range for Molecular TrapdoorlEffect in Chabazite Zeolite. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 12841-12847	3.8	70
226	Two-dimensional nanosheet-based gas separation membranes. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23169-23196	13	7°
225	Silica-templated synthesis of ordered mesoporous tungsten carbide/graphitic carbon composites with nanocrystalline walls and high surface areas via a temperature-programmed carburization route. <i>Small</i> , 2009 , 5, 2738-49	11	69
224	Fast solution-adaptive finite volume method for PSA/VSA cycle simulation; 1 single step simulation. <i>Computers and Chemical Engineering</i> , 2000 , 23, 1701-1712	4	69
223	Revised global kinetic measurements of methanol oxidation in supercritical water. <i>Industrial & Engineering Chemistry Research</i> , 1993 , 32, 236-239	3.9	69
222	Ultrathin Metal-Organic Framework Nanosheets as a Gutter Layer for Flexible Composite Gas Separation Membranes. <i>ACS Nano</i> , 2018 , 12, 11591-11599	16.7	68
221	Effects of amino functionality on uptake of CO2, CH4 and selectivity of CO2/CH4 on titanium based MOFs. <i>Fuel</i> , 2015 , 160, 318-327	7.1	67
220	Adsorption characteristics of a fully exchanged potassium chabazite zeolite prepared from decomposition of zeolite Y. <i>Microporous and Mesoporous Materials</i> , 2009 , 117, 497-507	5.3	66
219	Binary adsorption equilibrium of carbon dioxide and water vapor on activated alumina. <i>Langmuir</i> , 2009 , 25, 10666-75	4	66
218	High temperature materials for CO2 capture. <i>Energy Procedia</i> , 2009 , 1, 623-630	2.3	65
217	Improved removal capacity of magnetite for Cr(VI) by electrochemical reduction. <i>Journal of Hazardous Materials</i> , 2019 , 374, 26-34	12.8	64
216	Effects of water vapour on CO2 capture with vacuum swing adsorption using activated carbon. <i>Chemical Engineering Journal</i> , 2013 , 230, 64-72	14.7	64
215	Synthesis of well dispersed polymer grafted metal-organic framework nanoparticles. <i>Chemical Communications</i> , 2015 , 51, 15566-9	5.8	62
214	Carbon monoxide oxidation in supercritical water: the effects of heat transfer and the water-gas shift reaction on observed kinetics. <i>Energy & Description on Section 2018</i> 1992, 6, 586-597	4.1	61

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213	Anomalous Henry's law behavior of nitrogen and carbon dioxide adsorption on alkali-exchanged chabazite zeolites. <i>Separation and Purification Technology</i> , 2009 , 67, 336-343	8.3	60	
212	Cage and Window Effects in the Adsorption of n-Alkanes on Chabazite and SAPO-34. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 16593-16599	3.8	60	
211	Comparison of Traditional and Structured Adsorbents for CO2 Separation by Vacuum-Swing Adsorption. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 4832-4841	3.9	59	
2 10	Increasing both selectivity and permeability of mixed-matrix membranes: Sealing the external surface of porous MOF nanoparticles. <i>Journal of Membrane Science</i> , 2017 , 535, 350-356	9.6	58	
209	One-pot generation of mesoporous carbon supported nanocrystalline calcium oxides capable of efficient CO2 capture over a wide range of temperatures. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 2495-503	3.6	58	
208	Adsorption and Separation of C1¶8 Alcohols on SAPO-34. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 8117-8125	3.8	53	
207	Synthesis of uniform periodic mesoporous organosilica hollow spheres with large-pore size and efficient encapsulation capacity for toluene and the large biomolecule bovine serum albumin. <i>Microporous and Mesoporous Materials</i> , 2010 , 132, 543-551	5.3	53	
206	Synthesis, characterization and hydrogen storage properties of microporous carbons templated by cation exchanged forms of zeolite Y with propylene and butylene as carbon precursors. <i>Microporous and Mesoporous Materials</i> , 2007 , 102, 159-170	5.3	52	
205	Direct electrodeposition of Pt nanotube arrays and their enhanced electrocatalytic activities. <i>Electrochemistry Communications</i> , 2009 , 11, 190-193	5.1	48	
204	Entropic effects and isosteric heats of nitrogen and carbon dioxide adsorption on chabazite zeolites. <i>Microporous and Mesoporous Materials</i> , 2010 , 132, 22-30	5.3	48	
203	Simultaneous biogas purification and CO2 capture by vacuum swing adsorption using zeolite NaUSY. <i>Chemical Engineering Journal</i> , 2018 , 334, 2593-2602	14.7	48	
202	Direct electrodeposition of gold nanotube arrays for sensing applications. <i>Journal of Materials Chemistry</i> , 2008 , 18, 463-467		47	
201	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> , 2019 , 29, 57-64	,7.6	47	
200	Effect of the addition of polyvinylpyrrolidone as a pore-former on microstructure and mechanical strength of porous alumina ceramics. <i>Ceramics International</i> , 2013 , 39, 7551-7556	5.1	46	
199	Application of the reaction engineering approach (REA) for modeling intermittent drying under time-varying humidity and temperature. <i>Chemical Engineering Science</i> , 2011 , 66, 2149-2156	4.4	46	
198	Tuning the morphology of bismuth ferrite nano- and microcrystals: from sheets to fibers. <i>Small</i> , 2007 , 3, 1523-8	11	45	
197	Modelling and evaluation of dual-reflux pressure swing adsorption cycles: Part I. Mathematical models. <i>Chemical Engineering Science</i> , 2006 , 61, 7223-7233	4.4	44	
196	The CIDES process: Fractionation of concentrated microalgal paste for co-production of biofuel, nutraceuticals, and high-grade protein feed. <i>Algal Research</i> , 2016 , 19, 299-306	5	43	

195	Zeolite synthesis from waste fly ash and its application in CO2 capture from flue gas streams. <i>Adsorption</i> , 2011 , 17, 795-800	2.6	42
194	Effect of flue gas impurities on CO2 capture performance from flue gas at coal-fired power stations by vacuum swing adsorption. <i>Energy Procedia</i> , 2009 , 1, 1115-1122	2.3	42
193	Functionalized UiO-66 by Single and Binary (OH)2 and NO2 Groups for Uptake of CO2 and CH4. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 7924-7932	3.9	40
192	Potassium Chabazite: A Potential Nanocontainer for Gas Encapsulation. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 22025-22031	3.8	39
191	Opportunities for application of BECCS in the Australian power sector. <i>Applied Energy</i> , 2018 , 224, 615-6	5 35 0.7	39
190	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> , 2015 , 51, 14716-9	5.8	38
189	The role of water on postcombustion CO2 capture by vacuum swing adsorption: Bed layering and purge to feed ratio. <i>AICHE Journal</i> , 2014 , 60, 673-689	3.6	38
188	Ordered micro-porous carbon molecular sieves containing well-dispersed platinum nanoparticles for hydrogen storage. <i>Microporous and Mesoporous Materials</i> , 2009 , 119, 39-46	5.3	38
187	Formation and photocatalytic properties of bismuth ferrite submicrocrystals with tunable morphologies. <i>New Journal of Chemistry</i> , 2011 , 35, 937	3.6	37
186	MOF Scaffold for a High-Performance Mixed-Matrix Membrane. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8597-8602	16.4	37
185	Temperature-regulated guest admission and release in microporous materials. <i>Nature Communications</i> , 2017 , 8, 15777	17.4	36
184	Remediation of heavy metal contaminated soils by organic acid extraction and electrochemical adsorption. <i>Environmental Pollution</i> , 2020 , 264, 114745	9.3	36
183	Preparation of Activated Carbons with Large Specific Surface Areas from Biomass Corncob and Their Adsorption Equilibrium for Methane, Carbon Dioxide, Nitrogen, and Hydrogen. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 9286-9294	3.9	36
182	Synthesis of Carbonaceous Poly(furfuryl alcohol) Membrane for Water Desalination. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 4175-4180	3.9	36
181	Infrared and convective drying of thin layer of polyvinyl alcohol (PVA)/glycerol/water mixtureThe reaction engineering approach (REA). <i>Chemical Engineering and Processing: Process Intensification</i> , 2010 , 49, 348-357	3.7	36
180	A metal-ion-assisted assembly approach to synthesize disulfide-bridged periodical mesoporous organosilicas with high sulfide contents and efficient adsorption. <i>Applied Surface Science</i> , 2010 , 256, 5334-5342	6.7	36
179	Advances in carbon capture, utilization and storage. <i>Applied Energy</i> , 2020 , 278, 115627	10.7	36
178	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> , 2016 , 6, 21193-212	03:7	36

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177	Postcombustion Carbon Capture Using Thin-Film Composite Membranes. <i>Accounts of Chemical Research</i> , 2019 , 52, 1905-1914	24.3	35
176	The use of reduced copper metal-organic frameworks to facilitate CuAAC click chemistry. <i>Chemical Communications</i> , 2016 , 52, 12226-12229	5.8	35
175	One-step fabrication of ZIF-8/polymer composite spheres by a phase inversion method for gas adsorption. <i>Colloid and Polymer Science</i> , 2013 , 291, 2711-2717	2.4	35
174	Intermittent Drying of Mango Tissues: Implementation of the Reaction Engineering Approach. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 1089-1098	3.9	35
173	Structured zeolite NaX coatings on ceramic cordierite monolith supports for PSA applications. <i>Microporous and Mesoporous Materials</i> , 2010 , 130, 38-48	5.3	35
172	Fast Finite-Volume Method for PSA/VSA Cycle SimulationExperimental Validation. <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 3217-3224	3.9	35
171	High-throughput CO2 capture using PIM-1@MOF based thin film composite membranes. <i>Chemical Engineering Journal</i> , 2020 , 396, 125328	14.7	35
170	Multi-objective optimisation of a hybrid vacuum swing adsorption and low-temperature post-combustion CO2 capture. <i>Journal of Cleaner Production</i> , 2016 , 111, 193-203	10.3	34
169	Direct synthesis of hierarchical LTA zeolite via a low crystallization and growth rate technique in presence of cetyltrimethylammonium bromide. <i>Journal of Colloid and Interface Science</i> , 2012 , 382, 1-12	9.3	34
168	Synthesis of Ordered Mesoporous Carbon Materials with Semi-Graphitized Walls via Direct In-situ Silica-Confined Thermal Decomposition of CH4 and Their Hydrogen Storage Properties. <i>Topics in Catalysis</i> , 2009 , 52, 12-26	2.3	33
167	Zinc/ZnO coreBhell hexagonal nanodisk dendrites and their photoluminescence. <i>Acta Materialia</i> , 2007 , 55, 5039-5044	8.4	33
166	Life cycle analysis (LCA) of low emission methanol and di-methyl ether (DME) derived from natural gas. <i>Fuel</i> , 2018 , 220, 871-878	7.1	32
165	High-performance Cu adsorption of birnessite using electrochemically controlled redox reactions. Journal of Hazardous Materials, 2018 , 354, 107-115	12.8	32
164	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> , 2014 , 140, 084705	3.9	31
163	Dual mode roll-up effect in multicomponent non-isothermal adsorption processes with multilayered bed packing. <i>Chemical Engineering Science</i> , 2011 , 66, 1825-1834	4.4	31
162	Mathematical modeling of intermittent and convective drying of rice and coffee using the reaction engineering approach (REA). <i>Journal of Food Engineering</i> , 2011 , 105, 638-646	6	31
161	Enhancing plasticization-resistance of mixed-matrix membranes with exceptionally high CO2/CH4 selectivity through incorporating ZSM-25 zeolite. <i>Journal of Membrane Science</i> , 2019 , 583, 23-30	9.6	30
160	Effects of feed gas concentration, temperature and process parameters on vacuum swing adsorption performance for CO2 capture. <i>Chemical Engineering Journal</i> , 2015 , 265, 47-57	14.7	30

159	SiC nanofiber reinforced porous ceramic hollow fiber membranes. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 5841	13	30
158	Modelling the kinetics of lipid extraction from wet microalgal concentrate: A novel perspective on a classical process. <i>Chemical Engineering Journal</i> , 2014 , 242, 234-253	14.7	29
157	Modelling and evaluation of dual reflux pressure swing adsorption cycles: Part II. Productivity and energy consumption. <i>Chemical Engineering Science</i> , 2006 , 61, 7234-7239	4.4	29
156	Sr-LSX zeolite for air separation. <i>Chemical Engineering Journal</i> , 2019 , 362, 482-486	14.7	29
155	An optimal trapdoor zeolite for exclusive admission of CO at industrial carbon capture operating temperatures. <i>Chemical Communications</i> , 2018 , 54, 3134-3137	5.8	28
154	Effect of water vapor from power station flue gas on CO2 capture by vacuum swing adsorption with activated carbon. <i>Journal of Fuel Chemistry and Technology</i> , 2011 , 39, 169-174	1.8	28
153	Modeling of Drying of Food Materials with Thickness of Several Centimeters by the Reaction Engineering Approach (REA). <i>Drying Technology</i> , 2011 , 29, 961-973	2.6	28
152	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> , 2019 , 358, 707-717	14.7	28
151	Impact of operating parameters on CO2 capture using carbon monolith by Electrical Swing Adsorption technology (ESA). <i>Chemical Engineering Journal</i> , 2017 , 327, 441-453	14.7	27
150	Improvement of MCDI operation and design through experiment and modelling: Regeneration with brine and optimum residence time. <i>Desalination</i> , 2017 , 417, 36-51	10.3	26
149	Upgrading Biogas at Low Pressure by Vacuum Swing Adsorption. <i>Industrial & Discourse Industrial & Discourse Indust</i>	3.9	26
148	A numerical modelling study of SO2 adsorption on activated carbons with new rate equations. <i>Chemical Engineering Journal</i> , 2018 , 353, 858-866	14.7	25
147	Zeolite monoliths with hierarchical designed pore network structure: Synthesis and performance. <i>Chemical Engineering Journal</i> , 2013 , 223, 48-58	14.7	25
146	Micro-channel development and hydrogen adsorption properties in templated microporous carbons containing platinum nanoparticles. <i>Carbon</i> , 2011 , 49, 1305-1317	10.4	25
145	One-step fabrication of ordered Pttu alloy nanotube arrays for ethanol electrooxidation. <i>Materials Letters</i> , 2010 , 64, 1169-1172	3.3	25
144	Biogas upgrading through kinetic separation of carbon dioxide and methane over Rb- and Cs-ZK-5 zeolites. <i>RSC Advances</i> , 2014 , 4, 62511-62524	3.7	24
143	Optimal design of engineered gas adsorbents: Pore-scale level. <i>Chemical Engineering Science</i> , 2012 , 69, 270-278	4.4	24
142	The effect of wall porosity and zeolite film thickness on the dynamic behavior of adsorbents in the form of coated monoliths. <i>Separation and Purification Technology</i> , 2011 , 81, 191-199	8.3	24

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141	Adsorption of xylene isomers on ordered hexagonal mesoporous FDU-15 polymer and carbon materials. <i>Adsorption</i> , 2009 , 15, 123-132	2.6	24	
140	Optimization of synthesis procedures for structured PSA adsorbents. <i>Adsorption</i> , 2008 , 14, 687-693	2.6	24	
139	Intensified Biobutanol Recovery by using Zeolites with Complementary Selectivity. <i>ChemSusChem</i> , 2017 , 10, 2968-2977	8.3	23	•
138	Promoting CO2 hydrogenation to methanol by incorporating adsorbents into catalysts: Effects of hydrotalcite. <i>Chemical Engineering Journal</i> , 2019 , 378, 122052	14.7	23	
137	Temperature controlled invertible selectivity for adsorption of N(2) and CH(4) by molecular trapdoor chabazites. <i>Chemical Communications</i> , 2014 , 50, 4544-6	5.8	23	•
136	Synthesis of large-pore phenyl-bridged mesoporous organosilica with thick walls by evaporation-induced self-assembly for efficient benzene adsorption. <i>Journal of Colloid and Interface Science</i> , 2010 , 346, 429-35	9.3	23	
135	Assessment of ZIF materials for CO2 capture from high pressure natural gas streams. <i>Chemical Engineering Journal</i> , 2015 , 280, 486-493	14.7	22	
134	A Sustainability Framework for Bioenergy with Carbon Capture and Storage (BECCS) Technologies. <i>Energy Procedia</i> , 2017 , 114, 6044-6056	2.3	22	
133	Performance of mesoporous silicas and carbon in adsorptive removal of phenanthrene as a typical gaseous polycyclic aromatic hydrocarbon. <i>Microporous and Mesoporous Materials</i> , 2017 , 239, 9-18	5.3	22	
132	Simple, Accurate and Robust Modeling of Various Systems of Drying of Foods and Biomaterials: A Demonstration of the Feasibility of the Reaction Engineering Approach (REA). <i>Drying Technology</i> , 2011 , 29, 1519-1528	2.6	22	
131	Synthesis of biomorphic zeolite honeycomb monoliths with 16 000 cells per square inch. <i>Journal of Materials Chemistry</i> , 2009 , 19, 8372		22	
130	Hydrogen adsorption in transition metal carbon nano-structures. <i>Adsorption</i> , 2008 , 14, 265-274	2.6	22	
129	Mass-transfer models for rapid pressure swing adsorption simulation. AICHE Journal, 2006, 52, 3126-314	45 .6	22	
128	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> , 2018 , 336, 659-668	14.7	22	
127	Practical separation performance evaluation of coal mine methane upgrading with carbon molecular sieves. <i>Chemical Engineering Journal</i> , 2019 , 367, 295-303	14.7	21	
126	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> , 2018 , 122, 18933	-}1894·	1 ²¹	
125	Synthesis of mesoporous LaPO4nanostructures with controllable morphologies. <i>New Journal of Chemistry</i> , 2009 , 33, 1657	3.6	21	
124	Application of the reaction engineering approach (REA) to model cyclic drying of thin layers of polyvinyl alcohol (PVA)/glycerol/water mixture. <i>Chemical Engineering Science</i> , 2010 , 65, 5193-5203	4.4	21	

123	Pressure Drop in a Packed Bed under Nonadsorbing and Adsorbing Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 7234-7241	3.9	21
122	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> , 2019 , 39, 101454	5	20
121	A comparative study on conversion of porous and non-porous metal b rganic frameworks (MOFs) into carbon-based composites for carbon dioxide capture. <i>Polyhedron</i> , 2016 , 120, 30-35	2.7	20
120	Fundamental Kinetics of Methanol Oxidation in Supercritical Water. ACS Symposium Series, 1989, 259-2	75. ₄	20
119	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> , 2019 , 83, 1-10	4.2	19
118	Microwave assisted vacuum regeneration for CO2 capture from wet flue gas. <i>Adsorption</i> , 2014 , 20, 201	-2:16	19
117	A New Multi-bed Vacuum Swing Adsorption Cycle for CO2 Capture from Flue Gas Streams. <i>Energy Procedia</i> , 2017 , 114, 2467-2480	2.3	19
116	Ordered hierarchical porous platinum membranes with tailored mesostructures. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 10101-5	16.4	19
115	Adsorption thermodynamics and desorption properties of gaseous polycyclic aromatic hydrocarbons on mesoporous adsorbents. <i>Adsorption</i> , 2017 , 23, 361-371	2.6	18
114	CO2 capture by vacuum swing adsorption: role of multiple pressure equalization steps. <i>Adsorption</i> , 2015 , 21, 509-522	2.6	18
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