Ashleigh Fletcher

List of Publications by Year
in descending order

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77 papers	5,846 citations	182225 30 h-index	87275 74 g-index
79 all docs	79 docs citations	79 times ranked	7394 citing authors

#	Article	IF	Citations
1	The Role of Cations in Resorcinolâ€“Formaldehyde Gel Textural Characteristics. Gels, 2022, 8, 60.	2.1	0
2	Effective Carbon/TiO2 Gel for Enhanced Adsorption and Demonstrable Visible Light Driven Photocatalytic Performance. Gels, 2022, 8, 215.	2.1	7
3	Highly Efficient Adsorption of Cd(II) onto Carboxylated Camelthorn Biomass: Applicability of Three-Parameter Isotherm Models, Kinetics, and Mechanism. Journal of Polymers and the Environment, 2021, 29, 1630-1642.	2.4	7
4	Multi-stimulus linear negative expansion of a breathing M(O₂CR)₄-node MOF. Faraday Discussions, 2021, 225, 133-151.	1.6	2
5	Calligonum Crinitum as a Novel Sorbent for Sorption of Pb(II) from Aqueous Solutions: Thermodynamics, Kinetics, and Isotherms. Journal of Polymers and the Environment, 2021, 29, 1505-1515.	2.4	5
6	Carbamoylethylated Wood Pulp as a New Sorbent for Removal of Hg (II) from Contaminated Water: Isotherm and Kinetic Studies. Journal of Polymers and the Environment, 2021, 29, 881-891.	2.4	2
7	Aminated Acrylic Fabric Waste Derived Sorbent for Cd(II) Ion Removal from Aqueous Solutions: Mechanism, Equilibria and Kinetics. Journal of Polymers and the Environment, 2021, 29, 175-186.	2.4	9
8	Distance Learning in Chemical Engineering. Advances in Mobile and Distance Learning Book Series, 2021, , 118-148.	0.4	1
9	Carboxylated Cellulose for Adsorption of Hg(II) Ions from Contaminated Water: Isotherms and Kinetics. Journal of Polymers and the Environment, 2021, 29, 3040-3053.	2.4	2
10	Advancing Computational Analysis of Porous Materialsâ€”Modeling Three-Dimensional Gas Adsorption in Organic Gels. Journal of Physical Chemistry B, 2021, 125, 1960-1969.	1.2	3
11	Equilibrium and Kinetic Modelling of Aqueous Cadmium Ion and Activated Carbon Adsorption System. Water Conservation Science and Engineering, 2021, 6, 95-104.	0.9	24
12	Investigating the Role of the Catalyst within Resorcinolâ€“Formaldehyde Gel Synthesis. Gels, 2021, 7, 142.	2.1	6
13	The effect of atomic point charges on adsorption isotherms of CO2 and water in metal organic frameworks. Adsorption, 2020, 26, 663-685.	1.4	36
14	The Manufacture and Characterisation of Rosid Angiosperm-Derived Biochars Applied to Water Treatment. Bioenergy Research, 2020, 13, 387-396.	2.2	9
15	Adsorption of Pb(II) ions from contaminated water by 1,2,3,4-butanetetracarboxylic acid-modified microcrystalline cellulose: Isotherms, kinetics, and thermodynamic studies. International Journal of Biological Macromolecules, 2020, 164, 3193-3203.	3.6	50
16	Unexpected Selective Gas Adsorption on a â€˜Non-Porousâ€™ Metal Organic Framework. Crystals, 2020, 10, 548.	1.0	2
17	Modelling Organic Gel Growth in Three Dimensions: Textural and Fractal Properties of Resorcinolâ€“Formaldehyde Gels. Gels, 2020, 6, 23.	2.1	10
18	Effect of S-triazine Ring Substitution on the Synthesis of Organic Resorcinol-Formaldehyde Xerogels. Gels, 2020, 6, 21.	2.1	1

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19	Non-linear adsorption characteristics of modified pine wood sawdust optimised for adsorption of Cd(II) from aqueous systems. Journal of Environmental Chemical Engineering, 2020, 8, 103966.	3.3	60
20	Aminated Hydroximoyl Camelthorn Residues as a Novel Adsorbent for Extracting Hg(II) From Contaminated Water: Studies of Isotherm, Kinetics, and Mechanism. Journal of Polymers and the Environment, 2020, 28, 2498-2510.	2.4	25
21	Effect of Aromatic Amines on the Properties of Formaldehyde-Based Xerogels. Gels, 2020, 6, 8.	2.1	1
22	Adsorption selectivity of CO2 over CH4, N2 and H2 in melamineâ€“resorcinolâ€“formaldehyde xerogels. Adsorption, 2020, 26, 723-735.	1.4	10
23	The impact of deuterium oxide on the properties of resorcinol-formaldehyde gels. Journal of Sol-Gel Science and Technology, 2019, 89, 21-28.	1.1	0
24	Modelling the formation of porous organic gels â€“ how structural properties depend on growth conditions. RSC Advances, 2019, 9, 20065-20074.	1.7	5
25	Mechanisms of Surface Charge Modification of Carbonates in Aqueous Electrolyte Solutions. Colloids and Interfaces, 2019, 3, 62.	0.9	57
26	ORGANICS ADSORPTION ON NOVEL AMORPHOUS SILICA AND SILICA XEROGELS: MICROCOLUMN RAPID BREAKTHROUGH TEST COUPLED WITH SEQUENTIAL INJECTION ANALYSIS. Journal of Porous Media, 2019, 22, 1001-1014.	1.0	3
27	Parametric study of factors affecting melamine-resorcinol-formaldehyde xerogels properties. Materials Today Chemistry, 2018, 7, 5-14.	1.7	16
28	Terbuthylazine and desethylterbuthylazine: Recent occurrence, mobility and removal techniques. Chemosphere, 2018, 202, 94-104.	4.2	40
29	Novel hydrophilic and hydrophobic amorphous silica: Characterization and adsorption of aqueous phase organic compounds. Adsorption Science and Technology, 2018, 36, 327-342.	1.5	9
30	State of the art of the environmental behaviour and removal techniques of the endocrine disruptor 3,4-dichloroaniline. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2018, 53, 260-270.	0.9	24
31	Decoupling microporosity and nitrogen content to optimize CO2 adsorption in melamineâ€“resorcinolâ€“formaldehyde xerogels. Materials Today Chemistry, 2018, 10, 195-205.	1.7	10
32	Investigation of IR and Raman spectra of species present in formaldehyde-water-methanol systems. Vibrational Spectroscopy, 2018, 97, 44-54.	1.2	23
33	Upskilling student engineers: The role of design in meeting employersâ€™ needs. Education for Chemical Engineers, 2018, 24, 32-42.	2.8	9
34	Low Salinity Waterflooding in Carbonate Reservoirs: Review of Interfacial Mechanisms. Colloids and Interfaces, 2018, 2, 20.	0.9	139
35	Process Variable Optimization in the Manufacture of Resorcinolâ€“Formaldehyde Gel Materials. Gels, 2018, 4, 36.	2.1	17
36	Solvent-switchable continuous-breathing behaviour in a diamondoid metalâ€“organic framework and its influence on CO2 versus CH4 selectivity. Nature Chemistry, 2017, 9, 882-889.	6.6	293

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37	Using the perceptions of chemical engineering students and graduates to develop employability skills. Education for Chemical Engineers, 2017, 18, 11-25.	2.8	41
38	Scalable continuous production of high quality HKUST-1 via conventional and microwave heating. Chemical Engineering Journal, 2017, 326, 570-577.	6.6	63
39	A Family of Nitrogen-Enriched Metal Organic Frameworks with CCS Potential. Crystals, 2016, 6, 14.	1.0	12
40	Development of a novel dual-stage method for metaldehyde removal from water. Chemical Engineering Journal, 2016, 284, 741-749.	6.6	9
41	Group work experiences of women students in a Scottish chemical engineering programme. Education for Chemical Engineers, 2016, 16, 39-47.	2.8	4
42	Miniature Nitro and Peroxide Vapor Sensors Using Nanoporous Thin Films. IEEE Sensors Journal, 2016, 16, 8767-8774.	2.4	3
43	Scalable continuous solvothermal synthesis of metal organic framework (MOF-5) crystals. Chemical Engineering Journal, 2016, 285, 718-725.	6.6	113
44	Coordination Polymer Flexibility Leads to Polymorphism and Enables a Crystalline Solidâ€“Vapour Reaction: A Multiâ€technique Mechanistic Study. Chemistry - A European Journal, 2015, 21, 8799-8811.	1.7	25
45	The solvent-dependent continuous breathing behaviour of a wine-rack MOF. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s87-s87.	0.0	0
46	Effects of Secondary Metal Carbonate Addition on the Porous Character of Resorcinolâ€“Formaldehyde Xerogels. Langmuir, 2015, 31, 13571-13580.	1.6	4
47	Production Factors Controlling the Physical Characteristics of Biochar Derived from Phytoremediation Willow for Agricultural Applications. Bioenergy Research, 2014, 7, 371-380.	2.2	26
48	Catalytic degradation and adsorption of metaldehyde from drinking water by functionalized mesoporous silicas and ion-exchange resin. Separation and Purification Technology, 2014, 124, 195-200.	3.9	15
49	Gelation Mechanism of Resorcinol-Formaldehyde Gels Investigated by Dynamic Light Scattering. Langmuir, 2014, 30, 10231-10240.	1.6	57
50	The role of tutors in peer led teaching. Education for Chemical Engineers, 2014, 9, e15-e19.	2.8	9
51	Molecular trapping by flexible coordination polymers with latent porosity. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, C908-C908.	0.0	0
52	Effect of Synthesis Conditions on Formation Pathways of Metal Organic Framework (MOF-5) Crystals. Crystal Growth and Design, 2013, 13, 5481-5486.	1.4	77
53	Proposed vertical integration of prior learning to support students undertaking Chemical Engineering Design. Education for Chemical Engineers, 2013, 8, e72-e85.	2.8	2
54	Chemical transformations of a crystalline coordination polymer: a multi-stage solidâ€“vapour reaction manifold. Chemical Science, 2013, 4, 696-708.	3.7	35

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55	Zipping and Unzipping of a Paddlewheel Metalâ€“Organic Framework to Enable Twoâ€Step Synthetic and Structural Transformation. Chemistry - A European Journal, 2013, 19, 3552-3557.	1.7	28
56	Polysulfone mixed matrix gas separation hollow fibre membranes filled with polymer and carbon xerogels. Chemical Engineering Science, 2013, 92, 13-20.	1.9	37
57	Metaldehyde removal from aqueous solution by adsorption and ion exchange mechanisms onto activated carbon and polymeric sorbents. Journal of Hazardous Materials, 2013, 244-245, 240-250.	6.5	33
58	Mixed Matrix Polysulfone Hollow Fibres Filled with Polymer and Carbon Xerogels for Gas Separation. Procedia Engineering, 2012, 44, 125-127.	1.2	1
59	Chemically blockable transformation and ultraselective low-pressure gas adsorption in a non-porous metal organic framework. Nature Chemistry, 2009, 1, 289-294.	6.6	190
60	Surface Interactions and Quantum Kinetic Molecular Sieving for H₂ and D₂ Adsorption on a Mixed Metalâ^'Organic Framework Material. Journal of the American Chemical Society, 2008, 130, 6411-6423.	6.6	437
61	Adsorption of Organic Vapour Pollutants on Activated Carbon. NATO Science for Peace and Security Series C: Environmental Security, 2008, , 29-54.	0.1	4
62	High-Capacity Hydrogen and Nitric Oxide Adsorption and Storage in a Metalâ^'Organic Framework. Journal of the American Chemical Society, 2007, 129, 1203-1209.	6.6	546
63	Kinetic Isotope Quantum Effects in the Adsorption of H2O and D2O on Porous Carbons. Journal of Physical Chemistry C, 2007, 111, 2107-2115.	1.5	18
64	Role of Surface Functional Groups in the Adsorption Kinetics of Water Vapor on Microporous Activated Carbons. Journal of Physical Chemistry C, 2007, 111, 8349-8359.	1.5	142
65	Kinetic Isotope Effect for H2and D2Quantum Molecular Sieving in Adsorption/Desorption on Porous Carbon Materials. Journal of Physical Chemistry B, 2006, 110, 9947-9955.	1.2	139
66	Assembly of Heterometallic Clusters and Coordination Polymers by Combining Moâ^'S-Based Clusters with Mn2+. Inorganic Chemistry, 2006, 45, 4284-4302.	1.9	17
67	Adsorption and desorption kinetics for hydrophilic and hydrophobic vapors on activated carbon. Carbon, 2006, 44, 989-1004.	5.4	143
68	Competitive adsorption of a benzeneâ€“toluene mixture on activated carbons at low concentration. Carbon, 2006, 44, 1455-1463.	5.4	164
69	Flexibility in metal-organic framework materials: Impact on sorption properties. Journal of Solid State Chemistry, 2005, 178, 2491-2510.	1.4	516
70	Hydrogen Adsorption on Functionalized Nanoporous Activated Carbons. Journal of Physical Chemistry B, 2005, 109, 8880-8888.	1.2	209
71	Hysteretic Adsorption and Desorption of Hydrogen by Nanoporous Metal-Organic Frameworks. Science, 2004, 306, 1012-1015.	6.0	1,128
72	Adsorption of Gases and Vapors on Nanoporous Ni2(4,4â€˜-Bipyridine)3(NO3)4Metalâ^'Organic Framework Materials Templated with Methanol and Ethanol:Â Structural Effects in Adsorption Kinetics. Journal of the American Chemical Society, 2004, 126, 9750-9759.	6.6	208

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73	Probe Molecule Kinetic Studies of Adsorption on MCM-41. Journal of Physical Chemistry B, 2003, 107, 1012-1020.	1.2	46
74	Multicomponent Vapor Sorption on Active Carbon by Combined Microgravimetry and Dynamic Sampling Mass Spectrometry. Journal of Physical Chemistry B, 2002, 106, 7474-7482.	1.2	31
75	Adsorption Dynamics of Gases and Vapors on the Nanoporous Metal Organic Framework Material Ni2(4,4â€˜-Bipyridine)3(NO3)4:Â Guest Modification of Host Sorption Behavior. Journal of the American Chemical Society, 2001, 123, 10001-10011.	6.6	296
76	Compensation Effect for the Kinetics of Adsorption/Desorption of Gases/Vapors on Microporous Carbon Materials. Langmuir, 2000, 16, 6253-6266.	1.6	46
77	Adsorption and Desorption Kinetics ofn-Octane andn-Nonane Vapors on Activated Carbon. Langmuir, 1999, 15, 6908-6914.	1.6	52