

Graeme J Millar

List of Publications by Citations

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153
papers

5,192
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155
ext. papers

5,855
ext. citations

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avg, IF

6
L-index

#	Paper	IF	Citations
153	Comprehensive Study of Surface Chemistry of MCM-41 Using ^{29}Si CP/MAS NMR, FTIR, Pyridine-TPD, and TGA. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 6525-6531	3.4	607
152	Carbon Dioxide Reforming of Methane To Produce Synthesis Gas over Metal-Supported Catalysts: State of the Art. <i>Energy & Fuels</i> , 1996 , 10, 896-904	4.1	577
151	Advances in Mesoporous Molecular Sieve MCM-41. <i>Industrial & Engineering Chemistry Research</i> , 1996 , 35, 2075-2090	3.9	466
150	Clay-supported nanoscale zero-valent iron composite materials for the remediation of contaminated aqueous solutions: A review. <i>Chemical Engineering Journal</i> , 2017 , 312, 336-350	14.7	189
149	Anti-fouling graphene-based membranes for effective water desalination. <i>Nature Communications</i> , 2018 , 9, 683	17.4	135
148	Influence of synthesis route on the catalytic properties of $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$. <i>Solid State Ionics</i> , 2000 , 131, 211-220	3.3	118
147	Hollow fibre membrane contactors for ammonia recovery: Current status and future developments. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 1349-1359	6.8	87
146	Characterization of precursors to methanol synthesis catalysts Cu/ZnO system. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998 , 94, 593-600		82
145	A critical review of waste resources, synthesis, and applications for Zeolite LTA. <i>Microporous and Mesoporous Materials</i> , 2020 , 291, 109667	5.3	80
144	Mathematical model for intermittent microwave convective drying of food materials. <i>Drying Technology</i> , 2016 , 34, 962-973	2.6	75
143	Phosphogypsum stabilization of bauxite residue: Conversion of its alkaline characteristics. <i>Journal of Environmental Sciences</i> , 2019 , 77, 1-10	6.4	75
142	Effective Diffusivity and Evaporative Cooling in Convective Drying of Food Material. <i>Drying Technology</i> , 2015 , 33, 227-237	2.6	73
141	Comprehensive examination of acid leaching behaviour of mineral phases from red mud: Recovery of Fe, Al, Ti, and Si. <i>Minerals Engineering</i> , 2016 , 99, 8-18	4.9	67
140	Strategies for the management and treatment of coal seam gas associated water. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 57, 669-691	16.2	65
139	Infrared study of methyl formate and formaldehyde adsorption on reduced and oxidised silica-supported copper catalysts. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1991 , 87, 2785		63
138	An in situ high pressure FT-IR study of CO_2/H_2 interactions with model ZnO/SiO_2 , Cu/SiO_2 and $\text{Cu}/\text{ZnO}/\text{SiO}_2$ methanol synthesis catalysts. <i>Catalysis Letters</i> , 1992 , 14, 289-295	2.8	62
137	Infrared study of the adsorption of methanol on oxidised and reduced Cu/SiO_2 catalysts. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1991 , 87, 2795		62

136	Effect of strong acids on red mud structural and fluoride adsorption properties. <i>Journal of Colloid and Interface Science</i> , 2014 , 423, 158-65	9.3	60
135	Synthesis and characterization of highly ordered MCM-41 in an alkali-free system and its catalytic activity. <i>Catalysis Letters</i> , 1996 , 38, 33-37	2.8	59
134	An FTIR Study of the Adsorption of Formic Acid and Formaldehyde on Potassium-Promoted Cu/SiO ₂ Catalysts. <i>Journal of Catalysis</i> , 1995 , 155, 52-58	7.3	54
133	Infrared study of the adsorption of formic acid on silica-supported copper and oxidised copper catalysts. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1991 , 87, 1491		51
132	Infrared study of CO adsorption on reduced and oxidised silica-supported copper catalysts. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1991 , 87, 1467		49
131	Activated alumina for the removal of fluoride ions from high alkalinity groundwater: New insights from equilibrium and column studies with multicomponent solutions. <i>Separation and Purification Technology</i> , 2017 , 187, 14-24	8.3	47
130	Evaluation of electrocoagulation for the pre-treatment of coal seam water. <i>Journal of Water Process Engineering</i> , 2014 , 4, 166-178	6.7	46
129	Alternative neutralisation materials for acid mine drainage treatment. <i>Journal of Water Process Engineering</i> , 2018 , 22, 46-58	6.7	44
128	Equilibrium studies of ammonium exchange with Australian natural zeolites. <i>Journal of Water Process Engineering</i> , 2016 , 9, 47-57	6.7	44
127	In situ Raman studies of the selective oxidation of methanol to formaldehyde and ethene to ethylene oxide on a polycrystalline silver catalyst. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1995 , 91, 4149		44
126	Re-use of waste red mud: Production of a functional iron oxide adsorbent for removal of phosphorous. <i>Journal of Water Process Engineering</i> , 2018 , 25, 138-148	6.7	42
125	Industrial Production of Formaldehyde Using Polycrystalline Silver Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 9247-9265	3.9	42
124	Ion exchange treatment of saline solutions using Lanxess S108H strong acid cation resin. <i>Chemical Engineering Journal</i> , 2015 , 280, 525-535	14.7	41
123	An examination of isotherm generation: Impact of bottle-point method upon potassium ion exchange with strong acid cation resin. <i>Separation and Purification Technology</i> , 2015 , 141, 366-377	8.3	38
122	A combined infrared, temperature programmed desorption and temperature programmed reaction spectroscopy study of CO ₂ and H ₂ interactions on reduced and oxidized silica-supported copper catalysts. <i>Molecular Physics</i> , 1992 , 76, 833-849	1.7	38
121	Evidence for the adsorption of molecules at special sites located at copper/zinc oxide interfaces: part 1. A Fourier-transform infrared study of formic acid and formaldehyde adsorption on reduced and oxidised Cu/ZnO/SiO ₂ catalysts. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1992 , 88, 1033-1039		38
120	Integration and optimization of pressure retarded osmosis with reverse osmosis for power generation and high efficiency desalination. <i>Energy</i> , 2016 , 103, 110-118	7.9	37
119	In Situ Imaging of Catalytic Etching on Silver during Methanol Oxidation Conditions by Environmental Scanning Electron Microscopy. <i>Journal of Catalysis</i> , 1997 , 169, 143-156	7.3	37

118	Infrared study of the adsorption of NO, NO ₂ and CO on Rh/Al ₂ O ₃ catalysts. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1990 , 86, 571		33
117	Exploration of the fundamental equilibrium behaviour of calcium exchange with weak acid cation resins. <i>Desalination</i> , 2014 , 351, 27-36	10.3	31
116	Temperature Redistribution Modelling During Intermittent Microwave Convective Heating. <i>Procedia Engineering</i> , 2014 , 90, 544-549		31
115	Spectroscopic evidence for adsorption sites located at Cu/ZnO interfaces. <i>Catalysis Letters</i> , 1995 , 31, 333-340	2.8	31
114	Behaviour of natural zeolites used for the treatment of simulated and actual coal seam gas water. <i>Journal of Environmental Chemical Engineering</i> , 2016 , 4, 1918-1928	6.8	31
113	Low temperature synthesis of zeolite N from kaolinites and montmorillonites. <i>Applied Clay Science</i> , 2010 , 48, 622-630	5.2	28
112	Dioxins in diesel exhaust. <i>Nature</i> , 1996 , 381, 379	50.4	28
111	Evidence for the adsorption of molecules at special sites located at copper/zinc oxide interfaces. Part 2. A fourier-transform infrared spectroscopy study of methanol adsorption on reduced and oxidised Cu/ZnO/SiO ₂ catalysts. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1992 , 88, 2257-2261		28
110	Ion exchange of sodium chloride and sodium bicarbonate solutions using strong acid cation resins in relation to coal seam water treatment. <i>Journal of Water Process Engineering</i> , 2016 , 11, 60-67	6.7	28
109	A porous media transport model for apple drying. <i>Biosystems Engineering</i> , 2018 , 176, 12-25	4.8	28
108	Forward osmosis as a pre-treatment for treating coal seam gas associated water: Flux and fouling behaviour. <i>Desalination</i> , 2017 , 403, 144-152	10.3	27
107	A combined environmental scanning electron microscopy and Raman microscopy study of methanol oxidation on silver(I) oxide. <i>Catalysis Letters</i> , 1997 , 43, 97-105	2.8	26
106	Identification of Copper Species Present in Cu-ZSM-5 Catalysts for NO _x Reduction. <i>Journal of Catalysis</i> , 1999 , 183, 169-181	7.3	26
105	Combined temperature-programmed desorption and fourier-transform infrared spectroscopy study of CO ₂ , CO and H ₂ interactions with model ZnO/SiO ₂ , Cu/SiO ₂ and Cu/ZnO/SiO ₂ methanol synthesis catalysts. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993 , 89, 1109		25
104	Spectroscopic investigation of the polymerisation of pyrrole and thiophene within zeolite channels. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1994 , 90, 2579		25
103	Evidence for the adsorption of molecules at special sites located at copper/zinc oxide interfaces. Part 3. Fourier-transform infrared study of methyl formate adsorption on reduced and oxidised Cu/ZnO/SiO ₂ catalysts. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1992 , 88, 3497-3503		25
102	A combined temperature-programmed reaction spectroscopy and Fourier-transform infrared spectroscopy study of CO ₂ /H ₂ and CO/O ₂ /H ₂ interactions with model ZnO/SiO ₂ , Cu/SiO ₂ and Cu/ZnO/SiO ₂ methanol-synthesis catalysts. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1992 , 88, 2085-2093		25
101	Catalytic degradation of Orange II in aqueous solution using diatomite-supported bimetallic Fe/Ni nanoparticles.. <i>RSC Advances</i> , 2018 , 8, 7687-7696	3.7	24

100	Formation of polypyrrole and polythiophene within Cu ²⁺ - and H ⁺ -mordenite hosts studied by EPR and UVVIS spectroscopy. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1995 , 91, 4321-4328		24
99	Factors influencing kinetic and equilibrium behaviour of sodium ion exchange with strong acid cation resin. <i>Separation and Purification Technology</i> , 2016 , 163, 79-91	8.3	24
98	Infrared study of CO, CO ₂ , H ₂ and H ₂ O interactions on potassium-promoted reduced and oxidised silica-supported copper catalysts. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1992 , 88, 1477		23
97	Degradation of 2,4-dichlorophenol using palygorskite-supported bimetallic Fe/Ni nanocomposite as a heterogeneous catalyst. <i>Applied Clay Science</i> , 2019 , 168, 276-286	5.2	23
96	Equilibrium and column studies of iron exchange with strong acid cation resin. <i>Journal of Environmental Chemical Engineering</i> , 2015 , 3, 373-385	6.8	22
95	An FTIR Study of the Adsorption of Methanol and Methyl Formate on Potassium-Promoted Cu/SiO ₂ Catalysts. <i>Journal of Catalysis</i> , 1993 , 142, 263-273	7.3	22
94	Influence of operating parameters during electrocoagulation of sodium chloride and sodium bicarbonate solutions using aluminium electrodes. <i>Journal of Water Process Engineering</i> , 2018 , 22, 13-26	6.7	21
93	Energy efficiency of RO and FOBO system for high-salinity seawater treatment. <i>Clean Technologies and Environmental Policy</i> , 2017 , 19, 77-91	4.3	20
92	Effectiveness of aluminium based coagulants for pre-treatment of coal seam water. <i>Separation and Purification Technology</i> , 2017 , 177, 207-222	8.3	20
91	Characterisation of SiO ₂ -supported nickel catalysts for carbon dioxide reforming of methane. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998 , 94, 701-710		20
90	Energy efficiency of hollow fibre membrane module in the forward osmosis seawater desalination process. <i>Journal of Membrane Science</i> , 2019 , 587, 117165	9.6	19
89	Stochastic techno-economic analysis of the production of aviation biofuel from oilseeds. <i>Biotechnology for Biofuels</i> , 2018 , 11, 161	7.8	19
88	Effect of ammonium chloride on leaching behavior of alkaline anion and sodium ion in bauxite residue. <i>Transactions of Nonferrous Metals Society of China</i> , 2018 , 28, 2125-2134	3.3	19
87	Removal of fluoride ions from solution by chelating resin with imino-diacetate functionality. <i>Journal of Water Process Engineering</i> , 2017 , 20, 113-122	6.7	18
86	Understanding coal seam gas associated water, regulations and strategies for treatment. <i>Journal of Unconventional Oil and Gas Resources</i> , 2016 , 13, 32-43		18
85	Hydrothermal syntheses of zeolite N from kaolin. <i>Applied Clay Science</i> , 2012 , 58, 1-7	5.2	18
84	Raman spectroscopy of synthetic CaHPO ₄ ·2H ₂ O and in comparison with the cave mineral brushite. <i>Journal of Raman Spectroscopy</i> , 2012 , 43, 571-576	2.3	18
83	In situ observation of structural changes in polycrystalline silver catalysts by environmental scanning electron microscopy. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998 , 94, 2015-2023		18

82	Spectroscopic studies of the adsorption and reactions of chlorofluorocarbons (CFC-11 and CFC-12) and hydrochlorofluorocarbon (HCFC-22) on oxide surfaces. <i>Vibrational Spectroscopy</i> , 1995 , 9, 245-256	2.1	18
81	Value adding red mud waste: Impact of red mud composition upon fluoride removal performance of synthesised akaganeite sorbents. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 2063-2074	6.8	17
80	Encapsulation of transition metal species into zeolites and molecular sieves as redox catalysts: Part I-preparation and characterisation of nanosized TiO ₂ , CdO and ZnO semiconductor particles anchored in NaY zeolite. <i>Journal of Porous Materials</i> , 1996 , 3, 61-66	2.4	17
79	Coal seam water quality and the impact upon management strategies. <i>Journal of Petroleum Science and Engineering</i> , 2017 , 150, 323-333	4.4	16
78	Enhanced water recovery in the coal seam gas industry using a dual reverse osmosis system. <i>Environmental Science: Water Research and Technology</i> , 2017 , 3, 278-292	4.2	16
77	Simultaneous adsorption and degradation of 2,4-dichlorophenol on sepiolite-supported bimetallic Fe/Ni nanoparticles. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 102955	6.8	16
76	Enhanced removal of high Mn(II) and minor heavy metals from acid mine drainage using tunnelled manganese oxides. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 3249-3261	6.8	16
75	Comparitive analysis of the physical, chemical and structural characteristics and performance of manganese greensands. <i>Journal of Water Process Engineering</i> , 2016 , 13, 16-26	6.7	16
74	Neutralization of Acid Sulfate Solutions Using Bauxite Refinery Residues and Its Derivatives. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 1388-1395	3.9	16
73	Crystal Structure, Infrared and Solid State CP MAS NMR Characterization of [(PPh ₃) ₂ AgO ₂ CH] and of [(PPh ₃) ₂ AgO ₂ CH].cntdot.2HCO ₂ H, a Complex of the H-Bonded [H ₂ (HCO ₂) ₃]- Species. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 3909-3917		16
72	Raman spectroscopic study of the formation of polyacetylene within zeolite channels. <i>Journal of Materials Chemistry</i> , 1993 , 3, 867		16
71	Determination of an engineering model for exchange kinetics of strong acid cation resin for the ion exchange of sodium chloride & sodium bicarbonate solutions. <i>Journal of Water Process Engineering</i> , 2017 , 17, 197-206	6.7	15
70	Effect of Ca:Mg ratio and high ammoniacal nitrogen on characteristics of struvite precipitated from waste activated sludge digester effluent. <i>Journal of Environmental Sciences</i> , 2019 , 86, 65-77	6.4	15
69	An in Situ Fourier Transform Infrared Study of Formic Acid Adsorption on a Polycrystalline Silver Catalyst. <i>Journal of Catalysis</i> , 1994 , 147, 404-416	7.3	15
68	In situ FT-IR Investigation of Formic Acid Adsorption on Reduced and Reoxidized Copper Catalysts. <i>Applied Spectroscopy</i> , 1994 , 48, 827-832	3.1	15
67	Vibrational spectroscopic study of the mineral pitticite Fe, AsO ₄ , SO ₄ , H ₂ O. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 85, 173-8	4.4	14
66	trans-Polyacetylene on sodium and cesium mordenites: a resonance Raman spectroscopic study. <i>Chemistry of Materials</i> , 1993 , 5, 1509-1517	9.6	14
65	Microchemistry and microstructure of sustainable mined zeolite-geopolymer. <i>Journal of Cleaner Production</i> , 2019 , 234, 1165-1177	10.3	13

64	BDST modelling of sodium ion exchange column behaviour with strong acid cation resin in relation to coal seam water treatment. <i>Journal of Environmental Chemical Engineering</i> , 2016 , 4, 2216-2224	6.8	13
63	Electrocoagulation for the purification of highly concentrated brine produced from reverse osmosis desalination of coal seam gas associated water. <i>Journal of Water Process Engineering</i> , 2019 , 28, 300-310	6.7	12
62	Value adding red mud waste: High performance iron oxide adsorbent for removal of fluoride. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 2200-2206	6.8	11
61	Synthesis of high-quality zeolite LTA from alum sludge generated in drinking water treatment plants. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104751	6.8	11
60	Isolation of an acid producing <i>Bacillus</i> sp. EEEL02: Potential for bauxite residue neutralization. <i>Journal of Central South University</i> , 2019 , 26, 343-352	2.1	10
59	Ferrous poisoning of surface MnO ₂ during manganese greensand operation. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 3033-3043	6.8	10
58	Methodology of isotherm generation: Multicomponent K ⁺ and H ⁺ ion exchange with strong acid cation resin. <i>Separation and Purification Technology</i> , 2020 , 251, 117360	8.3	10
57	Using water quality and isotope studies to inform research in chronic kidney disease of unknown aetiology endemic areas in Sri Lanka. <i>Science of the Total Environment</i> , 2020 , 745, 140896	10.2	10
56	The influence of coal seam water composition upon electrocoagulation performance prior to desalination. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 1943-1956	6.8	9
55	Dynamic imaging of structural changes in silver catalysts by environmental scanning electron microscopy. <i>Microscopy Research and Technique</i> , 1997 , 36, 382-9	2.8	9
54	Performance of bauxite refinery residues for treating acid mine drainage. <i>Journal of Water Process Engineering</i> , 2018 , 26, 28-37	6.7	9
53	Applicability of iron based coagulants for pre-treatment of coal seam water. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 1119-1132	6.8	8
52	Process design of a treatment system to reduce conductivity and ammoniacal nitrogen content of landfill leachate. <i>Journal of Water Process Engineering</i> , 2019 , 31, 100806	6.7	8
51	Process evaluation of treatment options for high alkalinity coal seam gas associated water. <i>Journal of Water Process Engineering</i> , 2018 , 23, 195-206	6.7	8
50	Minimization of Bauxite Residue Neutralization Products Using Nanofiltered Seawater. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 3787-3794	3.9	8
49	Vibrational Spectroscopy of Natural Cave Mineral Monetite CaHPO ₄ and the Synthetic Analog. <i>Spectroscopy Letters</i> , 2013 , 46, 54-59	1.1	8
48	Resonance Raman spectroscopic study of polypyrrole in CuZSM-5. <i>Journal of Raman Spectroscopy</i> , 1993 , 24, 523-526	2.3	8
47	Optimisation of zeolite LTA synthesis from alum sludge and the influence of the sludge source. <i>Journal of Environmental Sciences</i> , 2021 , 99, 130-142	6.4	8

46	Rejection of harsh pH saline solutions using graphene membranes. <i>Carbon</i> , 2021 , 171, 240-247	10.4	8
45	A novel akaganeite sorbent synthesised from waste red mud: Application for treatment of arsenate in aqueous solutions. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 6308-6316	6.8	8
44	Coagulants for removal of turbidity and dissolved species from coal seam gas associated water. <i>Journal of Water Process Engineering</i> , 2018 , 26, 187-199	6.7	8
43	Comparison of Powdered and PVC-Bound Todorokite Media for Heavy Metal Removal from Acid Mine Drainage Tailings. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 14315-14324	3.9	8
42	Forward osmosis process for supply of fertilizer solutions from seawater using a mixture of draw solutions. <i>Desalination and Water Treatment</i> , 2016 , 57, 28025-28041		7
41	Bauxite residue neutralisation precipitate stability in acidic environments. <i>Environmental Chemistry</i> , 2013 , 10, 455	3.2	7
40	FT Raman spectroscopic characterization of oxalate precursors to YBCO superconductors. <i>Materials Letters</i> , 1995 , 25, 75-80	3.3	7
39	A spectroscopic comparison of YBCO superconductors synthesised by solid-state and co-precipitation methods. <i>Materials Letters</i> , 1996 , 28, 27-32	3.3	7
38	Evidence for the formation of strongly bound molecular CO ₂ species on a polycrystalline silver catalyst. <i>Journal of the Chemical Society Chemical Communications</i> , 1994 , 525		7
37	Pressure retarded osmosis: Advancement, challenges and potential. <i>Journal of Water Process Engineering</i> , 2021 , 40, 101950	6.7	7
36	Application of non-linear regression analysis and statistical testing to equilibrium isotherms: Building an Excel template and interpretation. <i>Separation and Purification Technology</i> , 2021 , 258, 118005	8.3	7
35	Investigation of manganese greensand activation by various oxidants. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 4130-4143	6.8	7
34	Variation of alkaline characteristics in bauxite residue under phosphogypsum amendment. <i>Journal of Central South University</i> , 2019 , 26, 361-372	2.1	6
33	Catalytic activity evaluation of industrial Pd/C catalyst via gray-box dynamic modeling and simulation of hydropurification reactor. <i>Applied Catalysis A: General</i> , 2015 , 489, 262-271	5.1	6
32	Harnessing Native Iron Ore as an Efficient Electrocatalyst for Overall Water Splitting. <i>ChemElectroChem</i> , 2019 , 6, 3667-3673	4.3	6
31	Vibrational spectroscopy of synthetic archerite (K,NH ₄) and in comparison with the natural cave mineral. <i>Journal of Molecular Structure</i> , 2012 , 1011, 128-133	3.4	6
30	Influence of oxidation and reduction conditions upon the morphology of silica-supported polycrystalline silver catalysts. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1995 , 91, 133		5
29	Process simulation of ion exchange desalination treatment of coal seam gas associated water. <i>Journal of Water Process Engineering</i> , 2019 , 27, 89-98	6.7	5

28	Synthesis and cation exchange capacity of zeolite W from ultra-fine natural zeolite waste. <i>Environmental Technology and Innovation</i> , 2021 , 23, 101595	7	5
27	Softening of coal seam gas associated water with aluminium exchanged resins. <i>Journal of Water Process Engineering</i> , 2018 , 21, 27-43	6.7	4
26	Fine-grained Y ₂ Cu ₂ O ₅ powder from a co-precipitated precursor. <i>Materials Letters</i> , 1996 , 26, 89-96	3.3	4
25	A Fourier-transform infrared study of CO ₂ and CO ₂ /H ₂ interactions with caesium-doped copper catalysts. <i>Topics in Catalysis</i> , 1996 , 3, 103-114	2.3	4
24	Sustainable ammonium recovery from wastewater: Improved synthesis and performance of zeolite N made from kaolin. <i>Microporous and Mesoporous Materials</i> , 2021 , 316, 110918	5.3	4
23	Enhanced removal of Mn (II) from solution by thermally activated Bayer precipitates. <i>Minerals Engineering</i> , 2019 , 134, 166-175	4.9	3
22	Vibrational spectroscopy of synthetic stercorite H(NH ₄)Na(PO ₄) ₂ ·4H ₂ O--a comparison with the natural cave mineral. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011 , 84, 269-74	4.4	3
21	Characterization of the active site for the selective oxidation of methanol to formaldehyde on polycrystalline silver catalyst. <i>Journal of the Chemical Society Chemical Communications</i> , 1994 , 1717		3
20	Downstream variations of air-gap membrane distillation and comparative study with direct contact membrane distillation: A modelling approach. <i>Desalination</i> , 2022 , 526, 115539	10.3	3
19	Unsafe drinking water quality in remote Western Australian Aboriginal communities. <i>Geographical Research</i> , 2019 , 57, 178-188	1.6	3
18	Impact of turbidity, hydraulic retention time, and polarity reversal upon iron electrode based electrocoagulation pre-treatment of coal seam gas associated water. <i>Environmental Technology and Innovation</i> , 2021 , 23, 101622	7	3
17	Process simulation of high pH reverse osmosis systems to facilitate reuse of coal seam gas associated water. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104122	6.8	2
16	Effect of struvite and organic acids on immobilization of copper and zinc in contaminated bio-retention filter media. <i>Journal of Environmental Sciences</i> , 2020 , 97, 35-44	6.4	2
15	Optimization of mesophilic anaerobic digestion of a conventional activated sludge plant for sustainability. <i>AEJ - Alexandria Engineering Journal</i> , 2019 , 58, 977-987	6.1	2
14	An Improved Modelling Approach for the Comprehensive Study of Direct Contact Membrane Distillation. <i>Membranes</i> , 2021 , 11,	3.8	2
13	Applicability of pebble matrix filtration for the pre-treatment of surface waters containing high turbidity and NOM. <i>Desalination and Water Treatment</i> , 2016 , 57, 24820-24832		2
12	Powering reversible actuators using forward osmosis membranes: feasibility study and modeling. <i>Separation Science and Technology</i> , 2019 , 54, 128-142	2.5	2
11	Acid Mine Drainage Treatment Using Bayer Precipitates Obtained from Seawater Neutralization of Bayer Liquor. <i>Global Challenges</i> , 2018 , 2, 1800061	4.3	2

10	Using isotopes to determine the natural and anthropogenic processes influencing water quality in household wells of Chronic kidney disease of unknown origin (CKDu) endemic Medawachchiya area, Sri Lanka. <i>Journal of Hydrology</i> , 2021 , 600, 126623	6	2
9	Process design of coal seam gas associated water treatment plants to facilitate beneficial reuse. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104255	6.8	1
8	Synthesis of LTA zeolite beads using alum sludge and silica rich wastes. <i>Advanced Powder Technology</i> , 2021 , 32, 3248-3258	4.6	1
7	Evaluation and application of machine learning principles to Zeolite LTA synthesis. <i>Microporous and Mesoporous Materials</i> , 2022 , 335, 111802	5.3	1
6	Experimental and geochemical modelling investigations on the weathering behaviour of bauxite residue: effect of pH. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 9, 103509	6.8	0
5	Process engineering approach to conversion of alum sludge and waste glass into zeolite LTA for water softening. <i>Journal of Water Process Engineering</i> , 2021 , 43, 102177	6.7	0
4	Migration of Alkaline Constituents and Restoration Evaluation in Bauxite Residue Disposal Areas.. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2022 , 1	2.7	
3	Transformation of heulandite type natural zeolites into synthetic zeolite LTA. <i>Environmental Technology and Innovation</i> , 2021 , 21, 101371	7	
2	Ammoniacal nitrogen removal and reuse: Process engineering design and technoeconomics of zeolite N synthesis. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107942	6.8	
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