Hamish R Mackey

List of Publications by Year
in descending order

80 papers	3,738 citations	136885 32 h-index	138417 58 g-index
81 all docs	81 docs citations	81 times ranked	3598 citing authors

#	Article	IF	Citations
1	A review of prospects and current scenarios of biomass co-pyrolysis for water treatment. Biomass Conversion and Biorefinery, 2024, 14, 6053-6082.	2.9	15
2	Effect of heating rate on the pyrolysis of camel manure. Biomass Conversion and Biorefinery, 2023, 13, 6023-6035.	2.9	21
3	Investigation of biomass components on the slow pyrolysis products yield using Aspen Plus for techno-economic analysis. Biomass Conversion and Biorefinery, 2022, 12, 669-681.	2.9	53
4	Optimization of process and properties of biochar from cabbage waste by response surface methodology. Biomass Conversion and Biorefinery, 2022, 12, 5479-5491.	2.9	11
5	Can a compact biological system be used for real hydraulic fracturing wastewater treatment?. Science of the Total Environment, 2022, 816, 151524.	3.9	5
6	Comparison of Cadmium Adsorption from Water Using Same Source Chitosan and Nanochitosan: Is It Worthwhile to Go Nano?. Journal of Polymers and the Environment, 2022, 30, 2727-2738.	2.4	1
7	A critical overview of MXenes adsorption behavior toward heavy metals. Chemosphere, 2022, 295, 133849.	4.2	58
8	Role of wastewater in achieving carbon and water neutral agricultural production. Journal of Cleaner Production, 2022, 339, 130706.	4.6	22
9	A review on prominent animal and municipal wastes as potential feedstocks for solar pyrolysis for biochar production. Fuel, 2022, 316, 123378.	3.4	28
10	Sustainability of wastewater treatment. , 2022, , 223-248.		1
11	Biochar from food waste: a sustainable amendment to reduce water stress and improve the growth of chickpea plants. Biomass Conversion and Biorefinery, 2022, 12, 4549-4562.	2.9	10
12	A review of pyrolysis technologies and feedstock: A blending approach for plastic and biomass towards optimum biochar yield. Renewable and Sustainable Energy Reviews, 2022, 167, 112715.	8.2	127
13	The impact of pyrolysis conditions on orange peel biochar physicochemical properties for sandy soil. Waste Management and Research, 2021, 39, 995-1004.	2.2	16
14	Shock effects of monovalent cationic salts on seawater cultivated granular sludge. Journal of Hazardous Materials, 2021, 403, 123646.	6.5	10
15	Pyrolysis Study of Different Fruit Wastes Using an Aspen Plus Model. Frontiers in Sustainable Food Systems, 2021, 5, .	1.8	18
16	A novel integrated pathway for Jet Biofuel production from whole energy crops: A Jatropha curcas case study. Energy Conversion and Management, 2021, 229, 113662.	4.4	41
17	Assessment of water quality variations on pretreatment and environmental impacts of SWRO desalination. Desalination, 2021, 500, 114831.	4.0	19
18	Wastewater reuse for livestock feed irrigation as a sustainable practice: A socio-environmental-economic review. Journal of Cleaner Production, 2021, 294, 126331.	4.6	53

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19	Thermal degradation characteristics and gasification kinetics of camel manure using thermogravimetric analysis. Journal of Environmental Management, 2021, 287, 112345.	3.8	50
20	Recent developments on sewage sludge pyrolysis and its kinetics: Resources recovery, thermogravimetric platforms, and innovative prospects. Computers and Chemical Engineering, 2021, 150, 107325.	2.0	74
21	The effectiveness of divalent cation addition for highly saline activated sludge cultures: Influence of monovalent/divalent ratio and specific cations. Chemosphere, 2021, 274, 129864.	4.2	4
22	A Review of Evapotranspiration Measurement Models, Techniques and Methods for Open and Closed Agricultural Field Applications. Water (Switzerland), 2021, 13, 2523.	1.2	46
23	Removal of toxic cadmium using a binary site ionâ€exchange material derived from waste printed circuit boards. Journal of Chemical Technology and Biotechnology, 2021, 96, 3282.	1.6	2
24	Minimizing adsorbent requirements using multi-stage batch adsorption for malachite green removal using microwave date-stone activated carbons. Chemical Engineering and Processing: Process Intensification, 2021, 167, 108318.	1.8	42
25	A comprehensive review of biomass based thermochemical conversion technologies integrated with CO2 capture and utilisation within BECCS networks. Resources, Conservation and Recycling, 2021, 173, 105734.	5.3	109
26	Reuse of treated industrial wastewater and bio-solids from oil and gas industries: Exploring new factors of public acceptance. Water Resources and Industry, 2021, 26, 100159.	1.9	11
27	Char Products From Bamboo Waste Pyrolysis and Acid Activation. Frontiers in Materials, 2021, 7, .	1.2	9
28	The application of purple non-sulfur bacteria for microbial mixed culture polyhydroxyalkanoates production. Reviews in Environmental Science and Biotechnology, 2021, 20, 959-983.	3.9	17
29	Efficient Photocatalytic Degradation of Organic Dyes by AgNPs/TiO₂/Ti₃C₂T_x MXene Composites under UV and Solar Light. ACS Omega, 2021, 6, 33325-33338.	1.6	36
30	Removal of cadmium from waters by adsorption using nanochitosan. Energy and Environment, 2020, 31, 517-534.	2.7	21
31	Adsorbent minimisation in a two-stage batch adsorber for cadmium removal. Journal of Industrial and Engineering Chemistry, 2020, 81, 153-160.	2.9	17
32	Performance evaluation of various individual and mixed media for greywater treatment in vertical nature-based systems. Chemosphere, 2020, 245, 125564.	4.2	16
33	Kinetics Study on Removal of Cadmium from Wastewater. Computer Aided Chemical Engineering, 2020, 48, 397-402.	0.3	0
34	Treated Industrial Wastewater as a Water and Nutrients Source for Tomatoes Cultivation: an Optimisation Approach. Computer Aided Chemical Engineering, 2020, 48, 1819-1824.	0.3	6
35	Biochar from vegetable wastes: agro-environmental characterization. Biochar, 2020, 2, 439-453.	6.2	48
36	Active Carbon from Microwave Date Stones for Toxic Dye Removal: Setting the Design Capacity. Chemical Engineering and Technology, 2020, 43, 1841-1849.	0.9	8

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37	Environmental Impact Assessment of Food Waste Management Using Two Composting Techniques. Sustainability, 2020, 12, 1595.	1.6	77
38	Water planning framework for alfalfa fields using treated wastewater fertigation in Qatar: An energy-water-food nexus approach. Computers and Chemical Engineering, 2020, 141, 106999.	2.0	25
39	Greywater treatment by ornamental plants and media for an integrated green wall system. International Biodeterioration and Biodegradation, 2019, 145, 104792.	1.9	31
40	Production and applications of activated carbons as adsorbents from olive stones. Biomass Conversion and Biorefinery, 2019, 9, 775-802.	2.9	295
41	Food waste from a university campus in the Middle East: Drivers, composition, and resource recovery potential. Waste Management, 2019, 98, 14-20.	3.7	48
42	Recent advancements of nanomaterials as coatings and biocides for the inhibition of sulfate reducing bacteria induced corrosion. Current Opinion in Chemical Engineering, 2019, 25, 35-42.	3.8	28
43	Effect of Graphene Oxide Synthesis Method on Properties and Performance of Polysulfone-Graphene Oxide Mixed Matrix Membranes. Nanomaterials, 2019, 9, 769.	1.9	70
44	Environmental assessment of intake alternatives for seawater reverse osmosis in the Arabian Gulf. Journal of Environmental Management, 2019, 242, 22-30.	3.8	31
45	Removal of emulsified and dissolved diesel oil from high salinity wastewater by adsorption onto graphene oxide. Journal of Environmental Chemical Engineering, 2019, 7, 103106.	3.3	55
46	Food waste to biochars through pyrolysis: A review. Resources, Conservation and Recycling, 2019, 144, 310-320.	5.3	239
47	Energy Assessment of Seawater Toilet Flushing in Qatar. Green Energy and Technology, 2019, , 963-968.	0.4	1
48	Recent advances in dissimilatory sulfate reduction: From metabolic study to application. Water Research, 2019, 150, 162-181.	5.3	115
49	Greywater recycling in buildings using living walls and green roofs: A review of the applicability and challenges. Science of the Total Environment, 2019, 652, 330-344.	3.9	91
50	Development of biochemical sulfide potential (BSP) test for sulfidogenic biotechnology application. Water Research, 2018, 135, 231-240.	5.3	16
51	Elucidating the stimulatory and inhibitory effects of dissolved sulfide on sulfur-oxidizing bacteria (SOB) driven autotrophic denitrification. Water Research, 2018, 133, 165-172.	5.3	84
52	Removal of oil from oilâ€“water emulsions using thermally reduced graphene and graphene nanoplatelets. Chemical Engineering Research and Design, 2018, 137, 47-59.	2.7	35
53	Application of a moving-bed biofilm reactor for sulfur-oxidizing autotrophic denitrification. Water Science and Technology, 2018, 77, 1027-1034.	1.2	15
54	Biological sulfur oxidation in wastewater treatment: A review of emerging opportunities. Water Research, 2018, 143, 399-415.	5.3	178

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55	Quantifying the energy, water and food nexus: A review of the latest developments based on life-cycle assessment. Journal of Cleaner Production, 2018, 193, 300-314.	4.6	152
56	Denitrifying sulfur conversion-associated EBPR: Effects of temperature and carbon source on anaerobic metabolism and performance. Water Research, 2018, 141, 9-18.	5.3	22
57	Elucidating the microbial communities and anaerobic mechanisms of a new biomass capable of capturing carbon and sulfur pollutants for sulfate-laden wastewater treatment. Biochemical Engineering Journal, 2018, 136, 18-27.	1.8	4
58	Sludge flotation, its causes and control in granular sludge upflow reactors. Applied Microbiology and Biotechnology, 2018, 102, 6383-6392.	1.7	25
59	Environmental Assessment of RO Intakes Applicable for Qatar and the GCC Region. , 2018, , .		0
60	Alkaline textile wastewater biotreatment: A sulfate-reducing granular sludge based lab-scale study. Journal of Hazardous Materials, 2017, 332, 104-111.	6.5	37
61	Seawater-based wastewater accelerates development of aerobic granular sludge: A laboratory proof-of-concept. Water Research, 2017, 115, 210-219.	5.3	106
62	Denitrifying sulfur conversion-associated EBPR: The effect of pH on anaerobic metabolism and performance. Water Research, 2017, 123, 687-695.	5.3	18
63	The role of sulfate in aerobic granular sludge process for emerging sulfate-laden wastewater treatment. Water Research, 2017, 124, 513-520.	5.3	22
64	The feasibility study of autotrophic denitrification with iron sludge produced for sulfide control. Water Research, 2017, 122, 226-233.	5.3	42
65	Example study for granular bioreactor stratification: Three-dimensional evaluation of a sulfate-reducing granular bioreactor. Scientific Reports, 2016, 6, 31718.	1.6	2
66	Functional bacteria and process metabolism of the Denitrifying Sulfur conversion-associated Enhanced Biological Phosphorus Removal (DS-EBPR) system: An investigation by operating the system from deterioration to restoration. Water Research, 2016, 95, 289-299.	5.3	44
67	Granulation of susceptible sludge under carbon deficient conditions: A case of denitrifying sulfur conversion-associated EBPR process. Water Research, 2016, 103, 444-452.	5.3	24
68	Resilience of sulfate-reducing granular sludge against temperature, pH, oxygen, nitrite, and free nitrous acid. Applied Microbiology and Biotechnology, 2016, 100, 8563-8572.	1.7	24
69	Pursuit of urine nitrifying granular sludge for decentralised nitrite production and sewer gas control. Chemical Engineering Journal, 2016, 289, 17-27.	6.6	23
70	Effect ofl-tyrosine on aerobic sludge granulation and its stability. RSC Advances, 2015, 5, 86513-86521.	1.7	6
71	Physicochemical and biological characterization of long-term operated sulfate reducing granular sludge in the SANIÂ® process. Water Research, 2015, 71, 74-84.	5.3	49
72	Combined seawater toilet flushing and urine separation for economic phosphorus recovery and nitrogen removal: a laboratory-scale trial. Water Science and Technology, 2014, 70, 1065-1073.	1.2	8

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73	A review of biological sulfate conversions in wastewater treatment. Water Research, 2014, 65, 1-21.	5.3	299
74	An exploratory study on seawater-catalysed urine phosphorus recovery (SUPR). Water Research, 2014, 66, 75-84.	5.3	46
75	Impact of influent COD/N ratio on disintegration of aerobic granular sludge. Water Research, 2014, 62, 127-135.	5.3	172
76	Characterization of sulfate-reducing granular sludge in the SANIÂ® process. Water Research, 2013, 47, 7042-7052.	5.3	92
77	Urine nitrification and sewer discharge to realize in-sewer denitrification to simplify sewage treatment in Hong Kong. Water Science and Technology, 2011, 64, 618-626.	1.2	31
78	Sorption of heavy metal ions onto e-waste-derived ion-exchange material â€“ selecting the optimum isotherm. , 0, 126, 196-207.		5
79	Pyrolysis characteristics, kinetic, and thermodynamic analysis of camel dung, date stone, and their blend using thermogravimetric analysis. Biomass Conversion and Biorefinery, 0, , 1.	2.9	8
80	Biochar development from thermal TGA studies of individual food waste vegetables and their blended systems. Biomass Conversion and Biorefinery, 0, , 1.	2.9	18