

Hamish R Mackey

List of Publications by Year in descending order

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Version: 2024-02-01

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 biological sulfate conversions in wastewater treatment. <i>Water Research</i> , 2014, 65, 1-21.	5.3	299
2	Production and applications of activated carbons as adsorbents from olive stones. <i>Biomass Conversion and Biorefinery</i> , 2019, 9, 775-802.	2.9	295
3	Food waste to biochars through pyrolysis: A review. <i>Resources, Conservation and Recycling</i> , 2019, 144, 310-320.	5.3	239
4	Biological sulfur oxidation in wastewater treatment: A review of emerging opportunities. <i>Water Research</i> , 2018, 143, 399-415.	5.3	178
5	Impact of influent COD/N ratio on disintegration of aerobic granular sludge. <i>Water Research</i> , 2014, 62, 127-135.	5.3	172
6	Quantifying the energy, water and food nexus: A review of the latest developments based on life-cycle assessment. <i>Journal of Cleaner Production</i> , 2018, 193, 300-314.	4.6	152
7	A review of pyrolysis technologies and feedstock: A blending approach for plastic and biomass towards optimum biochar yield. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 167, 112715.	8.2	127
8	Recent advances in dissimilatory sulfate reduction: From metabolic study to application. <i>Water Research</i> , 2019, 150, 162-181.	5.3	115
9	A comprehensive review of biomass based thermochemical conversion technologies integrated with CO ₂ capture and utilisation within BECCS networks. <i>Resources, Conservation and Recycling</i> , 2021, 173, 105734.	5.3	109
10	Seawater-based wastewater accelerates development of aerobic granular sludge: A laboratory proof-of-concept. <i>Water Research</i> , 2017, 115, 210-219.	5.3	106
11	Characterization of sulfate-reducing granular sludge in the SANIÂ® process. <i>Water Research</i> , 2013, 47, 7042-7052.	5.3	92
12	Greywater recycling in buildings using living walls and green roofs: A review of the applicability and challenges. <i>Science of the Total Environment</i> , 2019, 652, 330-344.	3.9	91
13	Elucidating the stimulatory and inhibitory effects of dissolved sulfide on sulfur-oxidizing bacteria (SOB) driven autotrophic denitrification. <i>Water Research</i> , 2018, 133, 165-172.	5.3	84
14	Environmental Impact Assessment of Food Waste Management Using Two Composting Techniques. <i>Sustainability</i> , 2020, 12, 1595.	1.6	77
15	Recent developments on sewage sludge pyrolysis and its kinetics: Resources recovery, thermogravimetric platforms, and innovative prospects. <i>Computers and Chemical Engineering</i> , 2021, 150, 107325.	2.0	74
16	Effect of Graphene Oxide Synthesis Method on Properties and Performance of Polysulfone-Graphene Oxide Mixed Matrix Membranes. <i>Nanomaterials</i> , 2019, 9, 769.	1.9	70
17	A critical overview of MXenes adsorption behavior toward heavy metals. <i>Chemosphere</i> , 2022, 295, 133849.	4.2	58
18	Removal of emulsified and dissolved diesel oil from high salinity wastewater by adsorption onto graphene oxide. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103106.	3.3	55

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19	Investigation of biomass components on the slow pyrolysis products yield using Aspen Plus for techno-economic analysis. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 669-681.	2.9	53
20	Wastewater reuse for livestock feed irrigation as a sustainable practice: A socio-environmental-economic review. <i>Journal of Cleaner Production</i> , 2021, 294, 126331.	4.6	53
21	Thermal degradation characteristics and gasification kinetics of camel manure using thermogravimetric analysis. <i>Journal of Environmental Management</i> , 2021, 287, 112345.	3.8	50
22	Physicochemical and biological characterization of long-term operated sulfate reducing granular sludge in the SANIÂ® process. <i>Water Research</i> , 2015, 71, 74-84.	5.3	49
23	Food waste from a university campus in the Middle East: Drivers, composition, and resource recovery potential. <i>Waste Management</i> , 2019, 98, 14-20.	3.7	48
24	Biochar from vegetable wastes: agro-environmental characterization. <i>Biochar</i> , 2020, 2, 439-453.	6.2	48
25	An exploratory study on seawater-catalysed urine phosphorus recovery (SUPR). <i>Water Research</i> , 2014, 66, 75-84.	5.3	46
26	A Review of Evapotranspiration Measurement Models, Techniques and Methods for Open and Closed Agricultural Field Applications. <i>Water (Switzerland)</i> , 2021, 13, 2523.	1.2	46
27	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. <i>Water Research</i> , 2016, 95, 289-299.	5.3	44
28	The feasibility study of autotrophic denitrification with iron sludge produced for sulfide control. <i>Water Research</i> , 2017, 122, 226-233.	5.3	42
29	Minimizing adsorbent requirements using multi-stage batch adsorption for malachite green removal using microwave date-stone activated carbons. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021, 167, 108318.	1.8	42
30	A novel integrated pathway for Jet Biofuel production from whole energy crops: A <i>Jatropha curcas</i> case study. <i>Energy Conversion and Management</i> , 2021, 229, 113662.	4.4	41
31	Alkaline textile wastewater biotreatment: A sulfate-reducing granular sludge based lab-scale study. <i>Journal of Hazardous Materials</i> , 2017, 332, 104-111.	6.5	37
32	Efficient Photocatalytic Degradation of Organic Dyes by AgNPs/TiO ₂ /Ti ₃ C ₂ MXene Composites under UV and Solar Light. <i>ACS Omega</i> , 2021, 6, 33325-33338.	1.6	36
33	Removal of oil from oil-water emulsions using thermally reduced graphene and graphene nanoplatelets. <i>Chemical Engineering Research and Design</i> , 2018, 137, 47-59.	2.7	35
34	Urine nitrification and sewer discharge to realize in-sewer denitrification to simplify sewage treatment in Hong Kong. <i>Water Science and Technology</i> , 2011, 64, 618-626.	1.2	31
35	Greywater treatment by ornamental plants and media for an integrated green wall system. <i>International Biodeterioration and Biodegradation</i> , 2019, 145, 104792.	1.9	31
36	Environmental assessment of intake alternatives for seawater reverse osmosis in the Arabian Gulf. <i>Journal of Environmental Management</i> , 2019, 242, 22-30.	3.8	31

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37	Recent advancements of nanomaterials as coatings and biocides for the inhibition of sulfate reducing bacteria induced corrosion. <i>Current Opinion in Chemical Engineering</i> , 2019, 25, 35-42.	3.8	28
38	A review on prominent animal and municipal wastes as potential feedstocks for solar pyrolysis for biochar production. <i>Fuel</i> , 2022, 316, 123378.	3.4	28
39	Sludge flotation, its causes and control in granular sludge upflow reactors. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 6383-6392.	1.7	25
40	Water planning framework for alfalfa fields using treated wastewater fertigation in Qatar: An energy-water-food nexus approach. <i>Computers and Chemical Engineering</i> , 2020, 141, 106999.	2.0	25
41	Granulation of susceptible sludge under carbon deficient conditions: A case of denitrifying sulfur conversion-associated EBPR process. <i>Water Research</i> , 2016, 103, 444-452.	5.3	24
42	Resilience of sulfate-reducing granular sludge against temperature, pH, oxygen, nitrite, and free nitrous acid. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 8563-8572.	1.7	24
43	Pursuit of urine nitrifying granular sludge for decentralised nitrite production and sewer gas control. <i>Chemical Engineering Journal</i> , 2016, 289, 17-27.	6.6	23
44	The role of sulfate in aerobic granular sludge process for emerging sulfate-laden wastewater treatment. <i>Water Research</i> , 2017, 124, 513-520.	5.3	22
45	Denitrifying sulfur conversion-associated EBPR: Effects of temperature and carbon source on anaerobic metabolism and performance. <i>Water Research</i> , 2018, 141, 9-18.	5.3	22
46	Role of wastewater in achieving carbon and water neutral agricultural production. <i>Journal of Cleaner Production</i> , 2022, 339, 130706.	4.6	22
47	Removal of cadmium from waters by adsorption using nanochitosan. <i>Energy and Environment</i> , 2020, 31, 517-534.	2.7	21
48	Effect of heating rate on the pyrolysis of camel manure. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 6023-6035.	2.9	21
49	Assessment of water quality variations on pretreatment and environmental impacts of SWRO desalination. <i>Desalination</i> , 2021, 500, 114831.	4.0	19
50	Denitrifying sulfur conversion-associated EBPR: The effect of pH on anaerobic metabolism and performance. <i>Water Research</i> , 2017, 123, 687-695.	5.3	18
51	Pyrolysis Study of Different Fruit Wastes Using an Aspen Plus Model. <i>Frontiers in Sustainable Food Systems</i> , 2021, 5, .	1.8	18
52	Biochar development from thermal TGA studies of individual food waste vegetables and their blended systems. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	2.9	18
53	Adsorbent minimisation in a two-stage batch adsorber for cadmium removal. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 81, 153-160.	2.9	17
54	The application of purple non-sulfur bacteria for microbial mixed culture polyhydroxyalkanoates production. <i>Reviews in Environmental Science and Biotechnology</i> , 2021, 20, 959-983.	3.9	17

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55	Development of biochemical sulfide potential (BSP) test for sulfidogenic biotechnology application. <i>Water Research</i> , 2018, 135, 231-240.	5.3	16
56	Performance evaluation of various individual and mixed media for greywater treatment in vertical nature-based systems. <i>Chemosphere</i> , 2020, 245, 125564.	4.2	16
57	The impact of pyrolysis conditions on orange peel biochar physicochemical properties for sandy soil. <i>Waste Management and Research</i> , 2021, 39, 995-1004.	2.2	16
58	Application of a moving-bed biofilm reactor for sulfur-oxidizing autotrophic denitrification. <i>Water Science and Technology</i> , 2018, 77, 1027-1034.	1.2	15
59	A review of prospects and current scenarios of biomass co-pyrolysis for water treatment. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 6053-6082.	2.9	15
60	Optimization of process and properties of biochar from cabbage waste by response surface methodology. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 5479-5491.	2.9	11
61	Reuse of treated industrial wastewater and bio-solids from oil and gas industries: Exploring new factors of public acceptance. <i>Water Resources and Industry</i> , 2021, 26, 100159.	1.9	11
62	Shock effects of monovalent cationic salts on seawater cultivated granular sludge. <i>Journal of Hazardous Materials</i> , 2021, 403, 123646.	6.5	10
63	Biochar from food waste: a sustainable amendment to reduce water stress and improve the growth of chickpea plants. <i>Biomass Conversion and Biorefinery</i> , 2022, 12, 4549-4562.	2.9	10
64	Char Products From Bamboo Waste Pyrolysis and Acid Activation. <i>Frontiers in Materials</i> , 2021, 7, .	1.2	9
65	Combined seawater toilet flushing and urine separation for economic phosphorus recovery and nitrogen removal: a laboratory-scale trial. <i>Water Science and Technology</i> , 2014, 70, 1065-1073.	1.2	8
66	Active Carbon from Microwave Date Stones for Toxic Dye Removal: Setting the Design Capacity. <i>Chemical Engineering and Technology</i> , 2020, 43, 1841-1849.	0.9	8
67	Pyrolysis characteristics, kinetic, and thermodynamic analysis of camel dung, date stone, and their blend using thermogravimetric analysis. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	2.9	8
68	Effect of tyrosine on aerobic sludge granulation and its stability. <i>RSC Advances</i> , 2015, 5, 86513-86521.	1.7	6
69	Treated Industrial Wastewater as a Water and Nutrients Source for Tomatoes Cultivation: an Optimisation Approach. <i>Computer Aided Chemical Engineering</i> , 2020, 48, 1819-1824.	0.3	6
70	Sorption of heavy metal ions onto e-waste-derived ion-exchange material "selecting the optimum isotherm. , 0, 126, 196-207.		5
71	Can a compact biological system be used for real hydraulic fracturing wastewater treatment?. <i>Science of the Total Environment</i> , 2022, 816, 151524.	3.9	5
72	Elucidating the microbial communities and anaerobic mechanisms of a new biomass capable of capturing carbon and sulfur pollutants for sulfate-laden wastewater treatment. <i>Biochemical Engineering Journal</i> , 2018, 136, 18-27.	1.8	4

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73	The effectiveness of divalent cation addition for highly saline activated sludge cultures: Influence of monovalent/divalent ratio and specific cations. <i>Chemosphere</i> , 2021, 274, 129864.	4.2	4
74	Example study for granular bioreactor stratification: Three-dimensional evaluation of a sulfate-reducing granular bioreactor. <i>Scientific Reports</i> , 2016, 6, 31718.	1.6	2
75	Removal of toxic cadmium using a binary site ion-exchange material derived from waste printed circuit boards. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 3282.	1.6	2
76	Energy Assessment of Seawater Toilet Flushing in Qatar. <i>Green Energy and Technology</i> , 2019, , 963-968.	0.4	1
77	Comparison of Cadmium Adsorption from Water Using Same Source Chitosan and Nanochitosan: Is It Worthwhile to Go Nano?. <i>Journal of Polymers and the Environment</i> , 2022, 30, 2727-2738.	2.4	1
78	Sustainability of wastewater treatment. , 2022, , 223-248.		1
79	Kinetics Study on Removal of Cadmium from Wastewater. <i>Computer Aided Chemical Engineering</i> , 2020, 48, 397-402.	0.3	0
80	Environmental Assessment of RO Intakes Applicable for Qatar and the GCC Region. , 2018, , .		0