

Matthew J Wade

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

734
citations

566801

15
h-index

580395

25
g-index

42
all docs

42
docs citations

42
times ranked

951
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding and managing uncertainty and variability for wastewater monitoring beyond the pandemic: Lessons learned from the United Kingdom national COVID-19 surveillance programmes. <i>Journal of Hazardous Materials</i> , 2022, 424, 127456.	6.5	105
2	Medium shapes the microbial community of water filters with implications for effluent quality. <i>Water Research</i> , 2018, 129, 499-508.	5.3	85
3	Incorporating microbial community data with machine learning techniques to predict feed substrates in microbial fuel cells. <i>Biosensors and Bioelectronics</i> , 2019, 133, 64-71.	5.3	60
4	Temperature, inocula and substrate: Contrasting electroactive consortia, diversity and performance in microbial fuel cells. <i>Bioelectrochemistry</i> , 2018, 119, 43-50.	2.4	52
5	Perspectives in mathematical modelling for microbial ecology. <i>Ecological Modelling</i> , 2016, 321, 64-74.	1.2	47
6	Profiling bacterial communities associated with sediment-based aquaculture bioremediation systems under contrasting redox regimes. <i>Scientific Reports</i> , 2016, 6, 38850.	1.6	38
7	Microbial Communities in a High Arctic Polar Desert Landscape. <i>Frontiers in Microbiology</i> , 2016, 7, 419.	1.5	37
8	Remediation of a historically Pb contaminated soil using a model natural Mn oxide waste. <i>Chemosphere</i> , 2015, 138, 211-217.	4.2	27
9	Not Just Numbers: Mathematical Modelling and Its Contribution to Anaerobic Digestion Processes. <i>Processes</i> , 2020, 8, 888.	1.3	27
10	Lipolysis of domestic wastewater in anaerobic reactors operating at low temperatures. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 1002-1013.	1.2	24
11	Increasing sulfate levels show a differential impact on synthetic communities comprising different methanogens and a sulfate reducer. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20190129.	1.5	24
12	Emergent behaviour in a chlorophenol-mineralising three-tiered microbial "food web". <i>Journal of Theoretical Biology</i> , 2016, 389, 171-186.	0.8	22
13	Building knowledge of university campus population dynamics to enhance near-to-source sewage surveillance for SARS-CoV-2 detection. <i>Science of the Total Environment</i> , 2022, 806, 150406.	3.9	22
14	Hybrid modelling of water resource recovery facilities: status and opportunities. <i>Water Science and Technology</i> , 2022, 85, 2503-2524.	1.2	22
15	Generalised approach to modelling a three-tiered microbial food-web. <i>Mathematical Biosciences</i> , 2017, 291, 21-37.	0.9	20
16	Thermodynamic modelling of synthetic communities predicts minimum free energy requirements for sulfate reduction and methanogenesis. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20200053.	1.5	19
17	Investigating the feasibility and the limits of high rate anaerobic winery wastewater treatment using a hybrid-EGSB bio-reactor. <i>Chemical Engineering Research and Design</i> , 2016, 102, 107-118.	2.7	15
18	On real-time control and process monitoring of wastewater treatment plants: real-time process monitoring. <i>Transactions of the Institute of Measurement and Control</i> , 2005, 27, 173-193.	1.1	13

#	ARTICLE	IF	CITATIONS
19	Rich dynamics of a three-tiered anaerobic food-web in a chemostat with multiple substrate inflow. <i>Mathematical Biosciences and Engineering</i> , 2020, 17, 7045-7073.	1.0	9
20	Assessment of aeration control strategies for biofilm-based partial nitritation/anammox systems. <i>Water Science and Technology</i> , 2020, 81, 1757-1765.	1.2	7
21	Making water smart. <i>Water Science and Technology</i> , 2020, 82, v-vii.	1.2	5
22	Bifurcation Analysis of an Impulsive System Describing Partial Nitritation and Anammox in a Hybrid Reactor. <i>Environmental Science & Technology</i> , 2021, 55, 2099-2109.	4.6	4
23	Towards automatic real-time controller tuning and robustness. , 0, , .		3
24	A software platform for real-time control and monitoring of a wastewater treatment plant. <i>Transactions of the Institute of Measurement and Control</i> , 2005, 27, 153-172.	1.1	3
25	Opportunities for Process Control and Quality Assurance Using Online NIR Analysis to a Continuous Wet Granulation Tableting Line. <i>Journal of Pharmaceutical Innovation</i> , 2020, 15, 26-40.	1.1	3
26	Challenges and perspectives in reactor scale modeling of biofilm processes. , 2020, , 359-383.		3
27	MI-Sim: A MATLAB package for the numerical analysis of microbial ecological interactions. <i>PLoS ONE</i> , 2017, 12, e0173249.	1.1	3
28	Estimating SARS-CoV-2 prevalence from large-scale wastewater surveillance: insights from combined analysis of 44 sites in England. <i>International Journal of Infectious Diseases</i> , 2022, 116, S24.	1.5	3
29	Dynamical analysis of a competition and cooperation system with multiple delays. <i>Boundary Value Problems</i> , 2018, 2018, .	0.3	2
30	A generic sensor model for wastewater treatment plant control. , 0, , .		1