Richard M Dinsdale

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104 papers	8,173 citations	43 h-index	90 g-index
107 ext. papers	8,906 ext. citations	8.9 avg, IF	6.26 L-index

#	Paper	IF	Citations
104	The removal of pharmaceuticals, personal care products, endocrine disruptors and illicit drugs during wastewater treatment and its impact on the quality of receiving waters. *Water Research*, **2009**, 43, 363-80	12.5	1108
103	The occurrence of pharmaceuticals, personal care products, endocrine disruptors and illicit drugs in surface water in South Wales, UK. *Water Research*, **2008**, 42, 3498-518	12.5	807
102	Sustainable fermentative hydrogen production: challenges for process optimisation. *International Journal of Hydrogen Energy*, **2002**, 27, 1339-1347	6.7	703
101	Continuous dark fermentative hydrogen production by mesophilic microflora: Principles and progress. *International Journal of Hydrogen Energy*, **2007**, 32, 172-184	6.7	520
100	Enhancement of hydrogen production from glucose by nitrogen gas sparging. *Bioresource Technology*, **2000**, 73, 59-65	11	426
99	Multi-residue method for the determination of basic/neutral pharmaceuticals and illicit drugs in surface water by solid-phase extraction and ultra performance liquid chromatography-positive electrospray ionisation tandem mass spectrometry. *Journal of Chromatography A*, **2007**, 1161, 132-45	4.5	316
98	Multiresidue methods for the analysis of pharmaceuticals, personal care products and illicit drugs in surface water and wastewater by solid-phase extraction and ultra performance liquid chromatography-electrospray tandem mass spectrometry. *Analytical and Bioanalytical Chemistry*, **2008**, 391, 1293-308	4.4	248
97	Continuous fermentative hydrogen production from a wheat starch co-product by mixed microflora. *Biotechnology and Bioengineering*, **2003**, 84, 619-26	4.9	242
96	An evaluation of the policy and techno-economic factors affecting the potential for biogas upgrading for transport fuel use in the UK. *Energy Policy*, **2011**, 39, 1806-1816	7.2	187
95	Continuous fermentative hydrogen production from sucrose and sugarbeet. *International Journal of Hydrogen Energy*, **2005**, 30, 471-483	6.7	179
94	Development of a tubular microbial fuel cell (MFC) employing a membrane electrode assembly cathode. *Journal of Power Sources*, **2009**, 187, 393-399	8.9	139
93	Modular tubular microbial fuel cells for energy recovery during sucrose wastewater treatment at low organic loading rate. *Bioresource Technology*, **2010**, 101, 1190-8	11	123
92	Microbial fuel cell type biosensor for specific volatile fatty acids using acclimated bacterial communities. *Biosensors and Bioelectronics*, **2013**, 47, 50-5	11.8	120
91	The effect of signal suppression and mobile phase composition on the simultaneous analysis of multiple classes of acidic/neutral pharmaceuticals and personal care products in surface water by solid-phase extraction and ultra performance liquid chromatography-negative electrospray tandem mass spectrometry. *Talanta*, **2008**, 74, 1299-312	6.2	118
90	Illicit drugs and pharmaceuticals in the environment--forensic applications of environmental data. Part 1: Estimation of the usage of drugs in local communities. *Environmental Pollution*, **2009**, 157, 1773-7	9.3	116
89	Life cycle assessment of biogas infrastructure options on a regional scale. *Bioresource Technology*, **2011**, 102, 7313-23	11	108
88	Development of a static headspace gas chromatographic procedure for the routine analysis of volatile fatty acids in wastewaters. *Journal of Chromatography A*, **2002**, 945, 195-209	4.5	107

87	Influence of substrate concentration on the stability and yield of continuous biohydrogen production. *Biotechnology and Bioengineering*, **2006**, 93, 971-9	4.9	92
86	Instrumentation and control of anaerobic digestion processes: a review and some research challenges. *Reviews in Environmental Science and Biotechnology*, **2015**, 14, 615-648	13.9	84
85	Influence of catholyte pH and temperature on hydrogen production from acetate using a two chamber concentric tubular microbial electrolysis cell. *International Journal of Hydrogen Energy*, **2010**, 35, 7716-7722	6.7	79
84	Removal and recovery of inhibitory volatile fatty acids from mixed acid fermentations by conventional electrodialysis. *Bioresource Technology*, **2015**, 189, 279-284	11	77
83	Illicit drugs and pharmaceuticals in the environment--forensic applications of environmental data, Part 2: Pharmaceuticals as chemical markers of faecal water contamination. *Environmental Pollution* , **2009**, 157, 1778-86	9.3	77
82	Hydrogen production from sewage sludge using mixed microflora inoculum: effect of pH and enzymatic pretreatment. *Bioresource Technology*, **2008**, 99, 6325-31	11	77
81	Performance characteristics of a two-stage dark fermentative system producing hydrogen and methane continuously. *Biotechnology and Bioengineering*, **2007**, 97, 759-70	4.9	68
80	Monitoring methanogenic population dynamics in a full-scale anaerobic digester to facilitate operational management. *Bioresource Technology*, **2013**, 140, 234-42	11	61
79	Inhibition of methane production in microbial fuel cells: operating strategies which select electrogens over methanogens. *Bioresource Technology*, **2014**, 173, 75-81	11	60
78	The influence of psychrophilic and mesophilic start-up temperature on microbial fuel cell system performance. *Energy and Environmental Science*, **2011**, 4, 1011	35.4	60
77	The mesophilic and thermophilic anaerobic digestion of coffee waste containing coffee grounds. *Water Research*, **1996**, 30, 371-377	12.5	60
76	Integration of biohydrogen, biomethane and bioelectrochemical systems. *Renewable Energy*, **2013**, 49, 188-192	8.1	57
75	Comparison of mesophilic and thermophilic upflow anaerobic sludge blanket reactors treating instant coffee production wastewater. *Water Research*, **1997**, 31, 163-169	12.5	57
74	The potential for hydrogen-enriched biogas production from crops: Scenarios in the UK. *Biomass and Bioenergy*, **2007**, 31, 95-104	5.3	56
73	Fermentative production of hydrogen from a wheat flour industry co-product. *Bioresource Technology*, **2008**, 99, 5020-9	11	54
72	Life cycle assessment of biohydrogen and biomethane production and utilisation as a vehicle fuel. *Bioresource Technology*, **2013**, 131, 235-45	11	53
71	Utilising biohydrogen to increase methane production, energy yields and process efficiency via two stage anaerobic digestion of grass. *Bioresource Technology*, **2015**, 189, 379-383	11	52
70	Automatic control of load increases power and efficiency in a microbial fuel cell. *Journal of Power Sources*, **2011**, 196, 2013-2019	8.9	51

69	Increasing power recovery and organic removal efficiency using extended longitudinal tubular microbial fuel cell (MFC) reactors. *Energy and Environmental Science*, **2011**, 4, 459-465	35.4	51
68	Control of power sourced from a microbial fuel cell reduces its start-up time and increases bioelectrochemical activity. *Bioresource Technology*, **2013**, 140, 277-85	11	50
67	Controlling for peak power extraction from microbial fuel cells can increase stack voltage and avoid cell reversal. *Journal of Power Sources*, **2014**, 269, 363-369	8.9	48
66	Augmenting Microbial Fuel Cell power by coupling with Supported Liquid Membrane permeation for zinc recovery. *Water Research*, **2014**, 55, 115-25	12.5	47
65	ADM1 can be applied to continuous bio-hydrogen production using a variable stoichiometry approach. *Water Research*, **2008**, 42, 4379-85	12.5	46
64	Anode modification to improve the performance of a microbial fuel cell volatile fatty acid biosensor. *Sensors and Actuators B: Chemical*, **2014**, 201, 266-273	8.5	44
63	Anaerobic digestion of short chain organic acids in an expanded granular sludge bed reactor. *Water Research*, **2000**, 34, 2433-2438	12.5	44
62	Use of real time gas production data for more accurate comparison of continuous single-stage and two-stage fermentation. *Bioresource Technology*, **2013**, 129, 561-7	11	43
61	Operation of a bioelectrochemical system as a polishing stage for the effluent from a two-stage biohydrogen and biomethane production process. *Biochemical Engineering Journal*, **2014**, 85, 125-131	4.2	42
60	Porous anodes with helical flow pathways in bioelectrochemical systems: The effects of fluid dynamics and operating regimes. *Journal of Power Sources*, **2012**, 213, 382-390	8.9	41
59	Production of hydrogen from sewage biosolids in a continuously fed bioreactor: Effect of hydraulic retention time and sparging. *International Journal of Hydrogen Energy*, **2010**, 35, 469-478	6.7	40
58	Mesophilic biohydrogen production from calcium hydroxide treated wheat straw. *International Journal of Hydrogen Energy*, **2014**, 39, 16891-16901	6.7	39
57	Hydrogen storage and demand to increase wind power onto electricity distribution networks. *International Journal of Hydrogen Energy*, **2014**, 39, 10195-10207	6.7	38
56	Increasing polyhydroxyalkanoate (PHA) yields from Cupriavidus necator by using filtered digestate liquors. *Bioresource Technology*, **2013**, 147, 345-352	11	38
55	The effect of physico-chemically immobilized methylene blue and neutral red on the anode of microbial fuel cell. *Biotechnology and Bioprocess Engineering*, **2012**, 17, 361-370	3.1	38
54	Energy storage for active network management on electricity distribution networks with wind power. *IET Renewable Power Generation*, **2014**, 8, 249-259	2.9	36
53	Bifurcation and stability analysis of an anaerobic digestion model. *Nonlinear Dynamics*, **2007**, 48, 391-408	5	36
52	Spatiotemporal development of the bacterial community in a tubular longitudinal microbial fuel cell. *Applied Microbiology and Biotechnology*, **2011**, 90, 1179-91	5.7	35

51	Increased biohydrogen yields, volatile fatty acid production and substrate utilisation rates via the electrodialysis of a continually fed sucrose fermenter. *Bioresource Technology*, **2017**, 229, 46-52	11	34
50	The effect of internal capacitance on power quality and energy efficiency in a tubular microbial fuel cell. *Process Biochemistry*, **2014**, 49, 973-980	4.8	34
49	Enhanced biomethane potential from wheat straw by low temperature alkaline calcium hydroxide pre-treatment. *Bioresource Technology*, **2015**, 189, 258-265	11	32
48	The use of NaCl addition for the improvement of polyhydroxyalkanoate production by Cupriavidus necator. *Bioresource Technology*, **2014**, 163, 287-94	11	31
47	Review of Energy Balances and Emissions Associated with Biomass-Based Transport Fuels Relevant to the United Kingdom Context. *Energy & Fuels*, **2008**, 22, 3506-3512	4.1	31
46	Mesophilic and thermophilic anaerobic digestion with thermophilic pre-acidification of instant-coffee-production wastewater. *Water Research*, **1997**, 31, 1931-1938	12.5	30
45	Operational temperature regulates anodic biofilm growth and the development of electrogenic activity. *Applied Microbiology and Biotechnology*, **2011**, 92, 419-30	5.7	29
44	A novel method for increasing biohydrogen production from food waste using electrodialysis. *International Journal of Hydrogen Energy*, **2019**, 44, 14715-14720	6.7	25
43	Critical analysis of methods for the measurement of volatile fatty acids. *Critical Reviews in Environmental Science and Technology*, **2016**, 46, 209-234	11.1	23
42	Integration of NIRS and PCA techniques for the process monitoring of a sewage sludge anaerobic digester. *Bioresource Technology*, **2013**, 133, 398-404	11	23
41	Performance parameter prediction for sewage sludge digesters using reflectance FT-NIR spectroscopy. *Water Research*, **2011**, 45, 2463-72	12.5	22
40	Control of microbial fuel cell voltage using a gain scheduling control strategy. *Journal of Power Sources*, **2016**, 322, 106-115	8.9	22
39	An exploratory study of public opinions on the use of hydrogen energy in Wales. *Public Understanding of Science*, **2008**, 17, 397-410	3.1	20
38	Sampled-time control of a microbial fuel cell stack. *Journal of Power Sources*, **2017**, 356, 338-347	8.9	18
37	Evaluation of feeding regimes to enhance PHA production using acetic and butyric acids by a pure culture of Cupriavidus necator. *Biotechnology and Bioprocess Engineering*, **2014**, 19, 989-995	3.1	17
36	The influence of anodic helical design on fluid flow and bioelectrochemical performance. *Bioresource Technology*, **2014**, 165, 13-20	11	17
35	Closed nutrient recycling via microbial catabolism in an eco-engineered self regenerating mixed anaerobic microbiome for hydrogenotrophic methanogenesis. *Bioresource Technology*, **2017**, 227, 93-101	11	16
34	Biohythane as an energy feedstock for solid oxide fuel cells. *International Journal of Hydrogen Energy*, **2019**, 44, 27896-27906	6.7	16

33	Continuous recovery and enhanced yields of volatile fatty acids from a continually-fed 100L food waste bioreactor by filtration and electrodialysis. *Waste Management*, **2021**, 122, 81-88	8.6	16
32	Addressing the challenge of optimum polyhydroxyalkanoate harvesting: monitoring real time process kinetics and biopolymer accumulation using dielectric spectroscopy. *Bioresource Technology*, **2013**, 134, 143-50	11	15
31	Maximising biohydrogen yields via continuous electrochemical hydrogen removal and carbon dioxide scrubbing. *Bioresource Technology*, **2016**, 218, 512-7	11	14
30	Overcoming nutrient loss during volatile fatty acid recovery from fermentation media by addition of electrodialysis to a polytetrafluoroethylene membrane stack. *Bioresource Technology*, **2020**, 301, 122543	11	14
29	Enrichment strategy for enhanced bioelectrochemical hydrogen production and the prevention of methanogenesis. *International Journal of Hydrogen Energy*, **2016**, 41, 4120-4131	6.7	13
28	An implementation framework for wastewater treatment models requiring a minimum programming expertise. *Water Science and Technology*, **2009**, 59, 367-80	2.2	13
27	Measurement of hydrogen peroxide in an advanced oxidation process using an automated biosensor. *Water Research*, **2007**, 41, 260-8	12.5	13
26	A comparison of the ability of black box and neural network models of ARX structure to represent a fluidized bed anaerobic digestion process. *Water Research*, **1999**, 33, 1027-1037	12.5	13
25	Reducing the burden of food processing washdown wastewaters using microbial fuel cells. *Biochemical Engineering Journal*, **2017**, 117, 210-217	4.2	12
24	Integration of Power to Methane in a waste water treatment plant - A feasibility study. *Bioresource Technology*, **2017**, 245, 1049-1057	11	10
23	Accurate measurement of internal resistance in microbial fuel cells by improved scanning electrochemical impedance spectroscopy. *Electrochimica Acta*, **2021**, 366, 137388	6.7	10
22	Analysis of the dynamic performance of a microbial fuel cell using a system identification approach. *Journal of Power Sources*, **2013**, 238, 218-226	8.9	8
21	Metabolic models to investigate energy limited anaerobic ecosystems. *Water Science and Technology*, **2009**, 60, 1669-75	2.2	8
20	Increasing 2 -Bio- (H and CH) production from food waste by combining two-stage anaerobic digestion and electrodialysis for continuous volatile fatty acids removal. *Waste Management*, **2021**, 129, 20-25	8.6	8
19	Bioelectrochemical treatment and recovery of copper from distillery waste effluents using power and voltage control strategies. *Journal of Hazardous Materials*, **2019**, 371, 18-26	12.8	7
18	The impact of inocula carryover and inoculum dilution on the methane yields in batch methane potential tests. *Bioresource Technology*, **2016**, 208, 134-139	11	7
17	Fate of antibiotic resistant E. coli and antibiotic resistance genes during full scale conventional and advanced anaerobic digestion of sewage sludge. *PLoS ONE*, **2020**, 15, e0237283	3.7	7
16	Magnetic Induction Spectroscopy for Biomass Measurement: A Feasibility Study. *Sensors*, **2019**, 19,	3.8	5

15	Factors affecting microbial fuel cell acclimation and operation in temperate climates. *Water Science and Technology*, **2013**, 67, 2568-75	2.2	5
14	Response to Randhir P. Deo and Rolf U. Halden's comments regarding The removal of pharmaceuticals, personal care products, endocrine disruptors and illicit drugs during wastewater treatment and its impact on the quality of receiving waters by Kasprzyk-Hordern et al.. *Water Research*, **2010**, 44, 2688-2690	12.5	5
13	Recovery and enhanced yields of volatile fatty acids from a grass fermentation via in-situ solids separation and electrodialysis. *Journal of Cleaner Production*, **2021**, 296, 126430	10.3	4
12	A techno-economic case for volatile fatty acid production for increased sustainability in the wastewater treatment industry. *Environmental Science: Water Research and Technology*, **2021**, 7, 927-941	4.2	4
11	Applicability of a PEDOT coated electrode for amperometric quantification of short chain carboxylic acids. *Sensors and Actuators B: Chemical*, **2018**, 255, 712-719	8.5	4
10	A new sequential injection analysis-capillary electrophoresis system with amperometric detection. *Electrophoresis*, **2018**, 39, 1754	3.6	3
9	Composition and Biodegradability of Products of Wet Air Oxidation of Polyester. *Environmental Science & Technology*, **1999**, 33, 4092-4095	10.3	3
8	Electrogenic Biofilm Development Determines Charge Accumulation and Resistance to pH Perturbation. *Energies*, **2020**, 13, 3521	3.1	3
7	Utilizing grass for the biological production of polyhydroxyalkanoates (PHAs) via green biorefining: Material and energy flows. *Journal of Industrial Ecology*, **2021**, 25, 802-815	7.2	3
6	Improved Dynamic Response and Range in Microbial Fuel Cell-Based Volatile Fatty Acid Sensor by Using Poised Potential **2015**, 183-192		1
5	The Anaerobic Digestion of Textile Desizing Wastewater **2007**, 163-167		
4	Fate of antibiotic resistant E. coli and antibiotic resistance genes during full scale conventional and advanced anaerobic digestion of sewage sludge **2020**, 15, e0237283		
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