

Damien J Batstone

List of Publications by Year in descending order

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208
papers

16,551
citations

10986

71
h-index

17105

122
g-index

214
all docs

214
docs citations

214
times ranked

11191
citing authors

#	ARTICLE	IF	CITATIONS
1	The IWA Anaerobic Digestion Model No 1 (ADM1). <i>Water Science and Technology</i> , 2002, 45, 65-73.	2.5	1,582
2	Pretreatment methods to improve sludge anaerobic degradability: A review. <i>Journal of Hazardous Materials</i> , 2010, 183, 1-15.	12.4	950
3	Microbial ecology meets electrochemistry: electricity-driven and driving communities. <i>ISME Journal</i> , 2007, 1, 9-18.	9.8	433
4	Influence of Environmental Conditions on Methanogenic Compositions in Anaerobic Biogas Reactors. <i>Applied and Environmental Microbiology</i> , 2005, 71, 331-338.	3.1	428
5	Phosphorus recovery from wastewater through microbial processes. <i>Current Opinion in Biotechnology</i> , 2012, 23, 878-883.	6.6	360
6	Acetate Oxidation Is the Dominant Methanogenic Pathway from Acetate in the Absence of Methanosaetaceae. <i>Applied and Environmental Microbiology</i> , 2006, 72, 5138-5141.	3.1	357
7	Resource Recovery from Wastewater by Biological Technologies: Opportunities, Challenges, and Prospects. <i>Frontiers in Microbiology</i> , 2016, 7, 2106.	3.5	354
8	Technologies to Recover Nutrients from Waste Streams: A Critical Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2015, 45, 385-427.	12.8	331
9	Linking microbial community structure, interactions and function in anaerobic digesters using new molecular techniques. <i>Current Opinion in Biotechnology</i> , 2014, 27, 55-64.	6.6	314
10	Platforms for energy and nutrient recovery from domestic wastewater: A review. <i>Chemosphere</i> , 2015, 140, 2-11.	8.2	295
11	Biomethanation and Its Potential. <i>Methods in Enzymology</i> , 2011, 494, 327-351.	1.0	277
12	Decreasing activated sludge thermal hydrolysis temperature reduces product colour, without decreasing degradability. <i>Water Research</i> , 2008, 42, 4699-4709.	11.3	242
13	Free Nitrous Acid (FNA)-Based Pretreatment Enhances Methane Production from Waste Activated Sludge. <i>Environmental Science & Technology</i> , 2013, 47, 11897-11904.	10.0	234
14	Estimation of hydrolysis parameters in full-scale anaerobic digesters. <i>Biotechnology and Bioengineering</i> , 2009, 102, 1513-1520.	3.3	225
15	State indicators for monitoring the anaerobic digestion process. <i>Water Research</i> , 2010, 44, 5973-5980.	11.3	222
16	Can Direct Conversion of Used Nitrogen to New Feed and Protein Help Feed the World?. <i>Environmental Science & Technology</i> , 2015, 49, 5247-5254.	10.0	216
17	The role of anaerobic digestion in the emerging energy economy. <i>Current Opinion in Biotechnology</i> , 2014, 27, 142-149.	6.6	178
18	Kinetics of thermophilic, anaerobic oxidation of straight and branched chain butyrate and valerate. <i>Biotechnology and Bioengineering</i> , 2003, 84, 195-204.	3.3	174

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19	Identification of synergistic impacts during anaerobic co-digestion of organic wastes. <i>Bioresource Technology</i> , 2014, 169, 421-427.	9.6	171
20	Nutrient recovery from wastewater through pilot scale electrodialysis. <i>Water Research</i> , 2018, 135, 57-65.	11.3	166
21	Domestic wastewater treatment with purple phototrophic bacteria using a novel continuous photo anaerobic membrane bioreactor. <i>Water Research</i> , 2016, 100, 486-495.	11.3	159
22	The influence of substrate kinetics on the microbial community structure in granular anaerobic biomass. <i>Water Research</i> , 2004, 38, 1390-1404.	11.3	155
23	Temperature phased anaerobic digestion increases apparent hydrolysis rate for waste activated sludge. <i>Water Research</i> , 2011, 45, 1597-1606.	11.3	154
24	Mathematical modelling of anaerobic digestion processes: applications and future needs. <i>Reviews in Environmental Science and Biotechnology</i> , 2015, 14, 595-613.	8.1	154
25	Electrochemical oxidation of reverse osmosis concentrate on mixed metal oxide (MMO) titanium coated electrodes. <i>Water Research</i> , 2011, 45, 4951-4959.	11.3	152
26	Pre-treatment mechanisms during thermophilic-mesophilic temperature phased anaerobic digestion of primary sludge. <i>Water Research</i> , 2010, 44, 123-130.	11.3	147
27	Modelling extracellular limitations for mediated versus direct interspecies electron transfer. <i>ISME Journal</i> , 2016, 10, 621-631.	9.8	146
28	Simultaneous treatment and single cell protein production from agri-industrial wastewaters using purple phototrophic bacteria or microalgae – A comparison. <i>Bioresource Technology</i> , 2018, 254, 214-223.	9.6	144
29	Phototrophic bacteria for nutrient recovery from domestic wastewater. <i>Water Research</i> , 2014, 50, 18-26.	11.3	139
30	Variation of bulk properties of anaerobic granules with wastewater type. <i>Water Research</i> , 2001, 35, 1723-1729.	11.3	133
31	Electrochemical oxidation of electro dialysed reverse osmosis concentrate on Ti/Pt-IrO ₂ , Ti/SnO ₂ -Sb and boron-doped diamond electrodes. <i>Water Research</i> , 2013, 47, 242-250.	11.3	132
32	Biological phosphorus removal from abattoir wastewater at very short sludge ages mediated by a novel PAO clade Comamonadaceae. <i>Water Research</i> , 2015, 69, 173-182.	11.3	132
33	Free nitrous acid pre-treatment of waste activated sludge enhances volatile solids destruction and improves sludge dewaterability in continuous anaerobic digestion. <i>Water Research</i> , 2018, 130, 13-19.	11.3	127
34	Mainstream Ammonium Recovery to Advance Sustainable Urban Wastewater Management. <i>Environmental Science & Technology</i> , 2019, 53, 11066-11079.	10.0	126
35	Nucleation and growth kinetics of struvite crystallization. <i>Water Research</i> , 2013, 47, 2890-2900.	11.3	125
36	Methanosarcinaceae and Acetate-Oxidizing Pathways Dominate in High-Rate Thermophilic Anaerobic Digestion of Waste-Activated Sludge. <i>Applied and Environmental Microbiology</i> , 2013, 79, 6491-6500.	3.1	121

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37	Assessing the role of biochemical methane potential tests in determining anaerobic degradability rate and extent. <i>Water Science and Technology</i> , 2011, 64, 880-886.	2.5	120
38	Industrial applications of the IWA anaerobic digestion model No. 1 (ADM1). <i>Water Science and Technology</i> , 2003, 47, 199-206.	2.5	114
39	Modelling phosphorus (P), sulfur (S) and iron (Fe) interactions for dynamic simulations of anaerobic digestion processes. <i>Water Research</i> , 2016, 95, 370-382.	11.3	113
40	Drivers of microbial community composition in mesophilic and thermophilic temperature-phased anaerobic digestion pre-treatment reactors. <i>Water Research</i> , 2013, 47, 7098-7108.	11.3	111
41	A review of ADM1 extensions, applications, and analysis: 2002–2005. <i>Water Science and Technology</i> , 2006, 54, 1-10.	2.5	109
42	Operating aerobic wastewater treatment at very short sludge ages enables treatment and energy recovery through anaerobic sludge digestion. <i>Water Research</i> , 2013, 47, 6546-6557.	11.3	108
43	Mathematical Modelling of Anaerobic Reactors Treating Domestic Wastewater: Rational Criteria for Model Use. <i>Reviews in Environmental Science and Biotechnology</i> , 2006, 5, 57-71.	8.1	107
44	Electrochemical oxidation of reverse osmosis concentrate on boron-doped diamond anodes at circumneutral and acidic pH. <i>Water Research</i> , 2012, 46, 6104-6112.	11.3	106
45	A review on anaerobic membrane bioreactors (AnMBRs) focused on modelling and control aspects. <i>Bioresource Technology</i> , 2018, 270, 612-626.	9.6	106
46	Purple phototrophic bacteria for resource recovery: Challenges and opportunities. <i>Biotechnology Advances</i> , 2020, 43, 107567.	11.7	103
47	Low pH anaerobic digestion of waste activated sludge for enhanced phosphorous release. <i>Water Research</i> , 2015, 81, 288-293.	11.3	102
48	Influence of low pH on continuous anaerobic digestion of waste activated sludge. <i>Water Research</i> , 2017, 113, 42-49.	11.3	102
49	Non-invasive characterization of electrochemically active microbial biofilms using confocal Raman microscopy. <i>Energy and Environmental Science</i> , 2012, 5, 7017.	30.8	101
50	Transformation of PVP coated silver nanoparticles in a simulated wastewater treatment process and the effect on microbial communities. <i>Chemistry Central Journal</i> , 2013, 7, 46.	2.6	100
51	Characterisation and removal of recalcitrants in reverse osmosis concentrates from water reclamation plants. <i>Water Research</i> , 2011, 45, 2415-2427.	11.3	96
52	Anaerobic membrane bioreactors enable high rate treatment of slaughterhouse wastewater. <i>Biochemical Engineering Journal</i> , 2015, 97, 132-141.	3.6	96
53	A generalised chemical precipitation modelling approach in wastewater treatment applied to calcite. <i>Water Research</i> , 2015, 68, 342-353.	11.3	96
54	Low-temperature thermal pre-treatment of municipal wastewater sludge: Process optimization and effects on solubilization and anaerobic degradation. <i>Water Research</i> , 2017, 113, 111-123.	11.3	96

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55	Impact of Iron Salt Dosage to Sewers on Downstream Anaerobic Sludge Digesters: Sulfide Control and Methane Production. <i>Journal of Environmental Engineering, ASCE</i> , 2013, 139, 594-601.	1.4	93
56	Multidimensional modelling to investigate interspecies hydrogen transfer in anaerobic biofilms. <i>Water Research</i> , 2006, 40, 3099-3108.	11.3	92
57	Removal of sulfate from high-strength wastewater by crystallisation. <i>Water Research</i> , 2009, 43, 762-772.	11.3	92
58	Anaerobic codigestion of sewage sludge and glycerol, focusing on process kinetics, microbial dynamics and sludge dewaterability. <i>Water Research</i> , 2014, 67, 355-366.	11.3	92
59	Effects of Temperature and Hydraulic Retention Time on Acetotrophic Pathways and Performance in High-Rate Sludge Digestion. <i>Environmental Science & Technology</i> , 2014, 48, 6468-6476.	10.0	92
60	Modelling anaerobic, aerobic and partial nitrification-anammox granular sludge reactors - A review. <i>Water Research</i> , 2019, 149, 322-341.	11.3	90
61	Impact of reactive settler models on simulated WWTP performance. <i>Water Science and Technology</i> , 2006, 53, 159-167.	2.5	88
62	Regulation mechanisms in mixed and pure culture microbial fermentation. <i>Biotechnology and Bioengineering</i> , 2014, 111, 2139-2154.	3.3	87
63	An ASM/ADM model interface for dynamic plant-wide simulation. <i>Water Research</i> , 2009, 43, 1913-1923.	11.3	86
64	Low temperature treatment of domestic wastewater by purple phototrophic bacteria: Performance, activity, and community.. <i>Water Research</i> , 2016, 100, 537-545.	11.3	84
65	Modelling anaerobic degradation of complex wastewater. I: model development. <i>Bioresource Technology</i> , 2000, 75, 67-74.	9.6	82
66	Plant-wide modelling of phosphorus transformations in wastewater treatment systems: Impacts of control and operational strategies. <i>Water Research</i> , 2017, 113, 97-110.	11.3	82
67	An innovative online VFA monitoring system for the anaerobic process, based on headspace gas chromatography. <i>Biotechnology and Bioengineering</i> , 2007, 96, 712-721.	3.3	80
68	Mixed culture purple phototrophic bacteria is an effective fishmeal replacement in aquaculture. <i>Water Research X</i> , 2019, 4, 100031.	6.1	80
69	Plant-wide model-based analysis of iron dosage strategies for chemical phosphorus removal in wastewater treatment systems. <i>Water Research</i> , 2019, 155, 12-25.	11.3	78
70	Simulation of DEHP biodegradation and sorption during the anaerobic digestion of secondary sludge. <i>Water Science and Technology</i> , 2006, 54, 119-128.	2.5	77
71	Increased temperature in the thermophilic stage in temperature phased anaerobic digestion (TPAD) improves degradability of waste activated sludge. <i>Journal of Hazardous Materials</i> , 2011, 187, 355-361.	12.4	77
72	Lessons learnt from 15 years of ICA in anaerobic digesters. <i>Water Science and Technology</i> , 2006, 53, 25-33.	2.5	76

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73	Characterising and modelling free ammonia and ammonium inhibition in anaerobic systems. <i>Water Research</i> , 2018, 143, 127-135.	11.3	71
74	A mechanistic model for anaerobic phototrophs in domestic wastewater applications: Photo-anaerobic model (PANM). <i>Water Research</i> , 2017, 116, 241-253.	11.3	68
75	A systematic study of multiple minerals precipitation modelling in wastewater treatment. <i>Water Research</i> , 2015, 85, 359-370.	11.3	66
76	Towards a generalized physicochemical framework. <i>Water Science and Technology</i> , 2012, 66, 1147-1161.	2.5	65
77	White and infrared light continuous photobioreactors for resource recovery from poultry processing wastewater – A comparison. <i>Water Research</i> , 2018, 144, 665-676.	11.3	64
78	Methanosarcina spp. Drive Vinyl Chloride Dechlorination via Interspecies Hydrogen Transfer. <i>Applied and Environmental Microbiology</i> , 2006, 72, 2942-2949.	3.1	63
79	Validation of a plant-wide phosphorus modelling approach with minerals precipitation in a full-scale WWTP. <i>Water Research</i> , 2016, 100, 169-183.	11.3	63
80	Saline wastewater treatment with purple phototrophic bacteria. <i>Water Research</i> , 2019, 160, 259-267.	11.3	63
81	Anaerobic digestion of spent bedding from deep litter piggery housing. <i>Bioresource Technology</i> , 2009, 100, 2210-2218.	9.6	62
82	Modelling anaerobic co-digestion in Benchmark Simulation Model No. 2: Parameter estimation, substrate characterisation and plant-wide integration. <i>Water Research</i> , 2016, 98, 138-146.	11.3	60
83	A plant-wide aqueous phase chemistry module describing pH variations and ion speciation/pairing in wastewater treatment process models. <i>Water Research</i> , 2015, 85, 255-265.	11.3	59
84	Effects of ionic strength and ion pairing on (plant-wide) modelling of anaerobic digestion. <i>Water Research</i> , 2015, 70, 235-245.	11.3	59
85	Good modelling practice in applying computational fluid dynamics for WWTP modelling. <i>Water Science and Technology</i> , 2016, 73, 969-982.	2.5	56
86	Nutrient removal and energy recovery from high-rate activated sludge processes – Impact of sludge age. <i>Bioresource Technology</i> , 2017, 245, 1155-1161.	9.6	56
87	Removal of polycyclic aromatic hydrocarbons (PAHs) from sewage sludge by anaerobic degradation. <i>Water Science and Technology</i> , 2004, 50, 237-244.	2.5	54
88	Development and validation of a rapid test for anaerobic inhibition and toxicity. <i>Water Research</i> , 2015, 81, 208-215.	11.3	54
89	Real-Time Measurements of the Redox States of c-Type Cytochromes in Electroactive Biofilms: A Confocal Resonance Raman Microscopy Study. <i>PLoS ONE</i> , 2014, 9, e89918.	2.5	54
90	Analysis of the potential to recover energy and nutrient resources from cattle slaughterhouses in Australia by employing anaerobic digestion. <i>Applied Energy</i> , 2014, 136, 23-31.	10.1	52

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91	The influence of calcium on granular sludge in a full-scale UASB treating paper mill wastewater. <i>Water Science and Technology</i> , 2002, 45, 187-193.	2.5	50
92	Gas controlled hydrogen fermentation. <i>Bioresource Technology</i> , 2012, 110, 503-509.	9.6	50
93	Use of an anaerobic sequencing batch reactor for parameter estimation in modelling of anaerobic digestion. <i>Water Science and Technology</i> , 2004, 50, 295-303.	2.5	49
94	Inhibition by fatty acids during fermentation of pre-treated waste activated sludge. <i>Journal of Biotechnology</i> , 2012, 159, 38-43.	3.8	49
95	Benchmark simulation models, quo vadis?. <i>Water Science and Technology</i> , 2013, 68, 1-15.	2.5	49
96	Humic acid inhibition of hydrolysis and methanogenesis with different anaerobic inocula. <i>Waste Management</i> , 2018, 80, 130-136.	7.4	49
97	Carbon neutrality: An ultimate goal towards sustainable wastewater treatment plants. <i>Water Research</i> , 2015, 87, 413-415.	11.3	48
98	Venturi-type injection system as a potential H ₂ mass transfer technology for full-scale in situ biomethanation. <i>Applied Energy</i> , 2018, 222, 840-846.	10.1	45
99	Increasing capacity of an anaerobic sludge digester through FNA pre-treatment of thickened waste activated sludge. <i>Water Research</i> , 2019, 149, 406-413.	11.3	45
100	Hydraulics of laboratory and full-scale upflow anaerobic sludge blanket (UASB) reactors. <i>Biotechnology and Bioengineering</i> , 2005, 91, 387-391.	3.3	43
101	Transport of pharmaceuticals during electrodialysis treatment of wastewater. <i>Water Research</i> , 2019, 161, 496-504.	11.3	43
102	Dynamic multidimensional modelling of submerged membrane bioreactor fouling. <i>Journal of Membrane Science</i> , 2014, 467, 153-161.	8.2	42
103	Anaerobic Co-Digestion of Sludge and Organic Food Waste—Performance, Inhibition, and Impact on the Microbial Community. <i>Energies</i> , 2018, 11, 2325.	3.1	41
104	Quantifying the Sensitivity of Soil Microbial Communities to Silver Sulfide Nanoparticles Using Metagenome Sequencing. <i>PLoS ONE</i> , 2016, 11, e0161979.	2.5	41
105	Improved nitrogen removal in upflow anaerobic sludge blanket (UASB) reactors by incorporation of Anammox bacteria into the granular sludge. <i>Water Science and Technology</i> , 2004, 49, 69-76.	2.5	38
106	Anaerobic digestion: impact of future greenhouse gases mitigation policies on methane generation and usage. <i>Water Science and Technology</i> , 2005, 52, 39-47.	2.5	37
107	Relative kinetics of anaerobic digestion under thermophilic and mesophilic conditions. <i>Water Science and Technology</i> , 2011, 64, 848-853.	2.5	37
108	Effects of process stability on anaerobic biodegradation of LAS in UASB reactors. <i>Biotechnology and Bioengineering</i> , 2005, 89, 759-765.	3.3	36

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109	Influence of pH Regulation Mode in Glucose Fermentation on Product Selection and Process Stability. <i>Microorganisms</i> , 2016, 4, 2.	3.6	36
110	A mechanistic model for electrochemical nutrient recovery systems. <i>Water Research</i> , 2016, 94, 176-186.	11.3	36
111	Recovery of energy and nutrient resources from cattle paunch waste using temperature phased anaerobic digestion. <i>Waste Management</i> , 2016, 51, 72-80.	7.4	35
112	Modelling anaerobic degradation of complex wastewater. II: parameter estimation and validation using slaughterhouse effluent. <i>Bioresource Technology</i> , 2000, 75, 75-85.	9.6	34
113	Electrochemical treatment of reverse osmosis concentrate on boron-doped electrodes in undivided and divided cell configurations. <i>Journal of Hazardous Materials</i> , 2014, 279, 111-116.	12.4	33
114	Low-cost filter media for removal of hydrogen sulphide from piggery biogas. <i>Chemical Engineering Research and Design</i> , 2017, 105, 117-126.	5.6	33
115	Multidimensional modelling of anaerobic granules. <i>Water Science and Technology</i> , 2005, 52, 501-507.	2.5	31
116	Impact of operating history on mixed culture fermentation microbial ecology and product mixture. <i>Water Science and Technology</i> , 2011, 64, 760-765.	2.5	31
117	Variable Cell Morphology Approach for Individual-Based Modeling of Microbial Communities. <i>Biophysical Journal</i> , 2014, 106, 2037-2048.	0.5	31
118	Combined free nitrous acid and hydrogen peroxide pre-treatment of waste activated sludge enhances methane production via organic molecule breakdown. <i>Scientific Reports</i> , 2015, 5, 16631.	3.3	31
119	Relationship between microbial community, operational factors and ammonia inhibition resilience in anaerobic digesters at low and moderate ammonia background concentrations. <i>New Biotechnology</i> , 2018, 44, 23-30.	4.4	31
120	Application of purple phototrophic bacteria in a biofilm photobioreactor for single cell protein production: Biofilm vs suspended growth. <i>Water Research</i> , 2020, 181, 115909.	11.3	31
121	Development of membrane inlet mass spectrometry for examination of fermentation processes. <i>Talanta</i> , 2010, 83, 482-492.	5.5	30
122	Anaerobic Processes. , 2011, , 615-639.		30
123	Shearing of biofilms enables selective layer based microbial sampling and analysis. <i>Biotechnology and Bioengineering</i> , 2013, 110, 2600-2605.	3.3	30
124	Self-Sustained Nitrite Accumulation at Low pH Greatly Enhances Volatile Solids Destruction and Nitrogen Removal in Aerobic Sludge Digestion. <i>Environmental Science & Technology</i> , 2019, 53, 1225-1234.	10.0	30
125	Nutrient solubilization and its availability following anaerobic digestion. <i>Water Science and Technology</i> , 2013, 67, 756-763.	2.5	29
126	Modelling an industrial anaerobic granular reactor using a multi-scale approach. <i>Water Research</i> , 2017, 126, 488-500.	11.3	29

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127	Teaching uncertainty propagation as a core component in process engineering statistics. <i>Education for Chemical Engineers</i> , 2013, 8, e132-e139.	4.8	28
128	Predicting scale formation during electro-dialytic nutrient recovery. <i>Water Research</i> , 2017, 110, 202-210.	11.3	28
129	Modelling recovery of ammonium from urine by electro-concentration in a 3-chamber cell. <i>Water Research</i> , 2017, 124, 210-218.	11.3	28
130	Post-treatment options for anaerobically digested sludge: Current status and future prospect. <i>Water Research</i> , 2021, 205, 117665.	11.3	28
131	Purple phototrophic bacteria are outcompeted by aerobic heterotrophs in the presence of oxygen. <i>Water Research</i> , 2021, 194, 116941.	11.3	26
132	Anaerobic model for high-solids or high-temperature digestion – additional pathway of acetate oxidation. <i>Water Science and Technology</i> , 2014, 69, 1634-1640.	2.5	25
133	Assessment of sludge management strategies in wastewater treatment systems using a plant-wide approach. <i>Water Research</i> , 2021, 190, 116714.	11.3	24
134	Evaluating the potential impact of proton carriers on syntrophic propionate oxidation. <i>Scientific Reports</i> , 2015, 5, 18364.	3.3	23
135	Analysis of electron transfer dynamics in mixed community electroactive microbial biofilms. <i>RSC Advances</i> , 2016, 6, 3650-3660.	3.6	23
136	Previously unclassified bacteria dominate during thermophilic and mesophilic anaerobic pre-treatment of primary sludge. <i>Systematic and Applied Microbiology</i> , 2013, 36, 281-290.	2.8	22
137	Anaerobic digestion of swine effluent: Impact of production stages. <i>Biomass and Bioenergy</i> , 2013, 48, 121-129.	5.7	21
138	Pilot-scale testing of a leachbed for anaerobic digestion of livestock residues on-farm. <i>Waste Management</i> , 2016, 50, 300-308.	7.4	21
139	Enhancing soluble phosphate concentration in sludge liquor by pressurised anaerobic digestion. <i>Water Research</i> , 2018, 145, 660-666.	11.3	21
140	Metabolic modelling of mixed culture anaerobic microbial processes. <i>Current Opinion in Biotechnology</i> , 2019, 57, 137-144.	6.6	21
141	Naturally illuminated photobioreactors for resource recovery from piggery and chicken-processing wastewaters utilising purple phototrophic bacteria. <i>Water Research</i> , 2022, 214, 118194.	11.3	21
142	Model assisted startup of anaerobic digesters fed with thermally hydrolysed activated sludge. <i>Water Science and Technology</i> , 2010, 62, 1661-1666.	2.5	20
143	Anaerobic Digestion: Process. , 0, , 583-600.		20
144	Biochemical Methane Potential of Beef Feedlot Manure: Impact of Manure Age and Storage. <i>Journal of Environmental Quality</i> , 2013, 42, 1205-1212.	2.0	20

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145	Microbial Internal Storage Alters the Carbon Transformation in Dynamic Anaerobic Fermentation. <i>Environmental Science & Technology</i> , 2015, 49, 9159-9167.	10.0	19
146	Impact of dewatering technologies on specific methanogenic activity. <i>Water Research</i> , 2015, 82, 78-85.	11.3	19
147	Online headspace chromatographic method for measuring VFA in biogas reactor. <i>Water Science and Technology</i> , 2005, 52, 473-478.	2.5	18
148	Exploring the inhibition boundaries of mixed cultures of purple phototrophic bacteria for wastewater treatment in anaerobic conditions. <i>Water Research</i> , 2020, 183, 116057.	11.3	18
149	Uncertainty analysis of WWTP control strategies made feasible. <i>Water Quality Research Journal of Canada</i> , 2012, 47, 14-29.	2.7	17
150	Use of modelling to evaluate best control practice for winery-type wastewaters. <i>Water Science and Technology</i> , 2007, 56, 147-152.	2.5	16
151	Evaluation of anaerobic digestion post-treatment options using an integrated model-based approach. <i>Water Research</i> , 2019, 156, 264-276.	11.3	16
152	Purple phototrophic bacteria granules under high and low upflow velocities. <i>Water Research</i> , 2021, 190, 116760.	11.3	16
153	Model development and full scale validation for anaerobic treatment of protein and fat based wastewater. <i>Water Science and Technology</i> , 1997, 36, 423.	2.5	15
154	Municipal wastewater treatment by purple phototropic bacteria at low infrared irradiances using a photo-anaerobic membrane bioreactor. <i>Water Research</i> , 2020, 173, 115535.	11.3	15
155	High-rate, High Temperature Acetotrophic Methanogenesis Governed by a Three Population Consortium in Anaerobic Bioreactors. <i>PLoS ONE</i> , 2016, 11, e0159760.	2.5	14
156	Nutrients in Australian agro-industrial residues: production, characteristics and mapping. <i>Australasian Journal of Environmental Management</i> , 2016, 23, 206-222.	1.1	14
157	Outdoor demonstration-scale flat plate photobioreactor for resource recovery with purple phototrophic bacteria. <i>Water Research</i> , 2022, 216, 118327.	11.3	14
158	Model-based analysis and optimization of a full-scale industrial high-rate anaerobic bioreactor. <i>Biotechnology and Bioengineering</i> , 2018, 115, 2726-2739.	3.3	13
159	Modelling hydrolysis: Simultaneous versus sequential biodegradation of the hydrolysable fractions. <i>Waste Management</i> , 2020, 101, 150-160.	7.4	13
160	Autotrophic sulfide removal by mixed culture purple phototrophic bacteria. <i>Water Research</i> , 2020, 182, 115896.	11.3	13
161	Safe Recycling of Sewage Sludge on Agricultural Land – Biowaste. <i>Chemical Engineering Research and Design</i> , 2006, 84, 253-257.	5.6	12
162	The Value of Wastewater Derived Struvite as a Source of Phosphorus Fertilizer. <i>Clean - Soil, Air, Water</i> , 2018, 46, 1700027.	1.1	12

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163	Model development and full scale validation for anaerobic treatment of protein and fat based wastewater. <i>Water Science and Technology</i> , 1997, 36, 423-431.	2.5	12
164	Fate of pathogen indicators in a domestic blend of food waste and wastewater through a two-stage anaerobic digestion system. <i>Water Science and Technology</i> , 2013, 67, 366-373.	2.5	11
165	Creating value from purple phototrophic bacteria via single-cell protein production. <i>Current Opinion in Biotechnology</i> , 2022, 76, 102726.	6.6	11
166	Efficient modelling necessitates standards for model documentation and exchange. <i>Water Science and Technology</i> , 2006, 53, 277-285.	2.5	10
167	Towards a generalised physicochemical modelling framework. <i>Reviews in Environmental Science and Biotechnology</i> , 2009, 8, 113-114.	8.1	10
168	A mathematical model for electrochemically active filamentous sulfide-oxidising bacteria. <i>Bioelectrochemistry</i> , 2015, 102, 10-20.	4.6	10
169	Sorbents can tailor nitrogen release from organic wastes to match the uptake capacity of crops. <i>Science of the Total Environment</i> , 2018, 645, 1474-1483.	8.0	10
170	Light attenuation in enriched purple phototrophic bacteria cultures: Implications for modelling and reactor design. <i>Water Research</i> , 2022, 219, 118572.	11.3	10
171	Microbial community analysis during continuous fermentation of thermally hydrolysed waste activated sludge. <i>Water Science and Technology</i> , 2012, 65, 7-14.	2.5	9
172	Evaluating DNA Extraction Methods for Community Profiling of Pig Hindgut Microbial Community. <i>PLoS ONE</i> , 2015, 10, e0142720.	2.5	8
173	Substrate availability drives mixed culture fermentation of glucose to lactate at steady state. <i>Biotechnology and Bioengineering</i> , 2021, 118, 1617-1629.	3.3	8
174	Engineered fractionation of primary solids – A comparison of primary treatments using rotating belt filters and primary clarifiers. <i>Proceedings of the Water Environment Federation</i> , 2015, 2015, 4950-4959.	0.0	8
175	Size fractionation characterisation of removed organics in reverse osmosis concentrates by ferric chloride. <i>Water Science and Technology</i> , 2011, 63, 1795-1800.	2.5	7
176	Mechanical and cell-to-cell adhesive properties of aggregated <i>Methanosarcina</i> . <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 126, 303-312.	5.0	7
177	On-farm trials of practical options for hydrogen sulphide removal from piggery biogas. <i>Chemical Engineering Research and Design</i> , 2018, 117, 675-683.	5.6	7
178	Editorial: Resource Recovery from Wastewater by Biological Technologies. <i>Frontiers in Microbiology</i> , 2017, 8, 998.	3.5	6
179	A modelling approach to assess the long-term stability of a novel microbial/electrochemical system for the treatment of acid mine drainage. <i>RSC Advances</i> , 2018, 8, 18682-18689.	3.6	6
180	Microbial dynamics in anaerobic enrichment cultures degrading di-n-butyl phthalic acid ester. <i>FEMS Microbiology Ecology</i> , 2008, 66, 472-483.	2.7	5

#	ARTICLE	IF	CITATIONS
181	Computational Fluid Dynamics (CFD): What is Good CFD-Modeling Practice and What Can Be the Added Value of CFD Models to WWTP Modeling?. Proceedings of the Water Environment Federation, 2012, 2012, 7400-7405.	0.0	5
182	Evaluation of anaerobic digestion processes for short sludge-age waste activated sludge combined with anammox treatment of digestate liquor. Water Science and Technology, 2016, 73, 1052-1060.	2.5	5
183	Nitrite addition to acidified sludge significantly improves digestibility, toxic metal removal, dewaterability and pathogen reduction. Scientific Reports, 2016, 6, 39795.	3.3	5
184	Indigenous microbial capability in solid manure residues to start-up solid-phase anaerobic digesters. Waste Management, 2017, 64, 79-87.	7.4	5
185	Anaerobic digestion of purple phototrophic bacteria – The release step of the partition-release-recover concept. Bioresource Technology, 2020, 306, 123125.	9.6	5
186	Characterising sedimentation velocity of primary waste water solids and effluents. Water Research, 2022, 219, 118555.	11.3	5
187	Predicting long-term solid accumulation in waste stabilisation lagoons through a combined CFD-process model approach. Chemical Engineering Research and Design, 2022, 184, 267-276.	5.6	5
188	Controlling mechanisms in directional growth of aggregated archaeal cells. Soft Matter, 2014, 10, 9615-9625.	2.7	4
189	Purple phototrophic bacteria as a platform to create the next generation of wastewater treatment plants: Energy and resource recovery. , 2020, , 255-280.		4
190	Kinetics of aerobic cellulose degradation in raw municipal wastewater. Science of the Total Environment, 2022, 802, 149852.	8.0	4
191	Understanding Primary Treatment Performance and Carbon Diversion Potential of Rotating Belt Filters Using Computational Fluid Dynamics. Proceedings of the Water Environment Federation, 2015, 2015, 1249-1262.	0.0	4
192	Production of single-cell proteins from organic matter and residual nitrogen. , 2020, , 355-389.		3
193	Hydrodynamic analysis of full-scale in-situ biogas upgrading in manure digesters. Water Research, 2021, 203, 117528.	11.3	3
194	Application of Respirometric Techniques to Determine COD Fractionation and Biokinetic Parameters of Sieved Wastewater. Proceedings of the Water Environment Federation, 2018, 2018, 106-121.	0.0	3
195	Prediction of mass and volumetric flows in a full-scale industrial waste treatment plant. Chemical Engineering Journal, 2022, 445, 136774.	12.7	3
196	Comment on ‘‘Parameter Identification and Modeling of the Biochemical Methane Potential of Waste Activated Sludge’’(1). Environmental Science & Technology, 2011, 45, 7596-7597.	10.0	2
197	The critical flux method for reduced filter membrane fouling when monitoring high-solids digesters. Biotechnology Progress, 2013, 29, 1059-1063.	2.6	2
198	Uncertainty analysis of rising sewer models with respect to input parameters and model structure using Monte Carlo simulations and computational fluid dynamics. Water Science and Technology, 2021, 83, 2486-2503.	2.5	2

#	ARTICLE	IF	CITATIONS
199	Development of a Mainstream Anaerobic Treatment Process Using a Hybrid UASB-Micro Sieve System. Proceedings of the Water Environment Federation, 2016, 2016, 2686-2695.	0.0	2
200	Established full-scale applications for energy recovery from water: anaerobic digestion. , 2022, , 99-139.		2
201	Method development for PPB culture screening, pigment analysis with UPLC-UV-HRMS vs. spectrophotometric methods, and spectral decomposition-based analysis. Talanta, 2022, 246, 123490.	5.5	2
202	Modelling Anaerobic Digestion Processes. , 2015, , 133-160.		1
203	Electrochemical Treatment of Reverse Osmosis Concentrates. , 2014, , 644-651.		1
204	Towards a Generalized Physicochemical Framework: WWTmod Workshop Position Paper. Proceedings of the Water Environment Federation, 2010, 2010, 1054-1071.	0.0	0
205	The Good, the Bad, and the Ugly Carbon: Optimizing Heterotrophic BNR Processes by Engineered Solids Fractionation Using Rotating Belt Filters. Proceedings of the Water Environment Federation, 2017, 2017, 4276-4293.	0.0	0
206	WERF Project ENER5R12: Mainstream Anaerobic Treatment Process Using the UASB Process. Proceedings of the Water Environment Federation, 2018, 2018, 982-987.	0.0	0
207	Producing microbial-based protein from reactive nitrogen recovered from wastewater. , 2022, , 223-244.		0
208	Anaerobic digestion. , 2022, , 171-194.		0