

Jorge Rodriguez

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

2,542
citations

270111

25
h-index

214428

50
g-index

64
all docs

64
docs citations

64
times ranked

3330
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling bioelectrochemical denitrification in absence of electron donors for groundwater treatment. <i>Chemosphere</i> , 2022, 286, 131850.	4.2	0
2	Model-based design and operation of biotrickling filters for foul air H ₂ S removal at wastewater networks. <i>Journal of Environmental Chemical Engineering</i> , 2022, , 107372.	3.3	4
3	Modelling the impact of interventions on the progress of the COVID-19 outbreak including age segregation. <i>PLoS ONE</i> , 2021, 16, e0248243.	1.1	5
4	On the selectivity of butyric acid photoreforming over Au/TiO ₂ and Pt/TiO ₂ by UV and visible radiation: A combined experimental and theoretical study. <i>Applied Catalysis A: General</i> , 2021, 624, 118321.	2.2	8
5	Green Extraction of Volatile Fatty Acids from Fermented Wastewater Using Hydrophobic Deep Eutectic Solvents. <i>Fermentation</i> , 2021, 7, 226.	1.4	26
6	Water microbial disinfection via supported nAg/Kaolin in a fixed-bed reactor configuration. <i>Applied Clay Science</i> , 2020, 184, 105387.	2.6	10
7	Growth and Nitrate Uptake in <i>Nannochloropsis gaditana</i> and <i>Tetraselmis chuii</i> Cultures Grown in Sequential Batch Reactors. <i>Frontiers in Marine Science</i> , 2020, 7, .	1.2	12
8	A model predictive optimal control system for the practical automatic start-up of anaerobic digesters. <i>Water Research</i> , 2020, 174, 115599.	5.3	9
9	Reply for comment on "A compilation and bioenergetic evaluation of syntrophic microbial growth yields in anaerobic digestion" by Patã³n, M. and RodrÃguez, J. [<i>Water research</i> 162 (2019), 516â€“517]. <i>Water Research</i> , 2020, 173, 115427.	5.3	0
10	Comprehensive Bioenergetic Evaluation of Microbial Pathway Variants in Syntrophic Propionate Oxidation. <i>MSystems</i> , 2020, 5, .	1.7	8
11	Hydrogen and Propane Production From Butyric Acid Photoreforming Over Pt-TiO ₂ . <i>Frontiers in Chemistry</i> , 2019, 7, 563.	1.8	11
12	Integration of bioenergetics in the ADM1 and its impact on model predictions. <i>Water Science and Technology</i> , 2019, 80, 339-346.	1.2	5
13	A compilation and bioenergetic evaluation of syntrophic microbial growth yields in anaerobic digestion. <i>Water Research</i> , 2019, 159, 176-183.	5.3	11
14	Activity corrections are required for accurate anaerobic digestion modelling. <i>Water Science and Technology</i> , 2018, 77, 2057-2067.	1.2	11
15	Modelling sulfate reduction in anaerobic digestion: Complexity evaluation and parameter calibration. <i>Water Research</i> , 2018, 130, 255-262.	5.3	29
16	Electron bifurcation mechanism and homoacetogenesis explain products yields in mixed culture anaerobic fermentations. <i>Water Research</i> , 2018, 141, 349-356.	5.3	43
17	A Multiple Reaction Modelling Framework for Microbial Electrochemical Technologies. <i>International Journal of Molecular Sciences</i> , 2017, 18, 86.	1.8	4
18	Inoculum composition determines microbial community and function in an anaerobic sequential batch reactor. <i>PLoS ONE</i> , 2017, 12, e0171369.	1.1	23

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19	Generalized parameter estimation and calibration for biokinetic models using correlation and single variable optimisations: Application to sulfate reduction modelling in anaerobic digestion. <i>Water Research</i> , 2017, 122, 407-418.	5.3	15
20	Dynamic Thermodynamic Simulation of ADM1 Validates the Hydrogen Inhibition Approach and Suggests an Unfeasible Butyrate Degradation Pathway. <i>Lecture Notes in Civil Engineering</i> , 2017, , 260-265.	0.3	0
21	Thermodynamic Modelling Is Needed to Describe the Effect of High Temperature on Microbial Nitrogen Removal Processes. <i>Lecture Notes in Civil Engineering</i> , 2017, , 37-42.	0.3	1
22	A Novel Analysis Method for Paired-Sample Microbial Ecology Experiments. <i>PLoS ONE</i> , 2016, 11, e0154804.	1.1	9
23	Surveys, simulation and single-cell assays relate function and phylogeny in a lake ecosystem. <i>Nature Microbiology</i> , 2016, 1, 16130.	5.9	33
24	Metabolic Energy-Based Modelling Explains Product Yielding in Anaerobic Mixed Culture Fermentations. <i>PLoS ONE</i> , 2015, 10, e0126739.	1.1	61
25	Control strategy for maximum anaerobic co-digestion performance. <i>Water Research</i> , 2015, 80, 209-216.	5.3	21
26	Microbial catabolic activities are naturally selected by metabolic energy harvest rate. <i>ISME Journal</i> , 2015, 9, 2630-2641.	4.4	69
27	Modelling Anaerobic Digestion Processes. , 2015, , 133-160.		1
28	Mathematical modelling of anaerobic digestion processes: applications and future needs. <i>Reviews in Environmental Science and Biotechnology</i> , 2015, 14, 595-613.	3.9	154
29	Kinetic modelling of anaerobic hydrolysis of solid wastes, including disintegration processes. <i>Waste Management</i> , 2015, 35, 96-104.	3.7	52
30	Simultaneous saccharification and fermentation of solid household waste following mild pretreatment using a mix of hydrolytic enzymes in combination with <i>Saccharomyces cerevisiae</i> . <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 929-938.	1.7	20
31	Optimisation of substrate blends in anaerobic co-digestion using adaptive linear programming. <i>Bioresource Technology</i> , 2014, 173, 159-167.	4.8	40
32	Molecular Analysis for Screening Human Bacterial Pathogens in Municipal Wastewater Treatment and Reuse. <i>Environmental Science & Technology</i> , 2014, 48, 11610-11619.	4.6	71
33	A systematic strain selection approach for halotolerant and halophilic bioprocess development: a review. <i>Extremophiles</i> , 2014, 18, 629-639.	0.9	9
34	Generalised modelling approach for anaerobic co-digestion of fermentable substrates. <i>Bioresource Technology</i> , 2013, 147, 525-533.	4.8	37
35	Enhanced performance of sulfate reducing bacteria based biocathode using stainless steel mesh on activated carbon fabric electrode. <i>Bioresource Technology</i> , 2013, 150, 172-180.	4.8	42
36	Integration of biohydrogen, biomethane and bioelectrochemical systems. <i>Renewable Energy</i> , 2013, 49, 188-192.	4.3	64

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37	Linking thermodynamics and kinetics to assess pathway reversibility in anaerobic bioprocesses. <i>Energy and Environmental Science</i> , 2013, 6, 3780.	15.6	104
38	Increasing power recovery and organic removal efficiency using extended longitudinal tubular microbial fuel cell (MFC) reactors. <i>Energy and Environmental Science</i> , 2011, 4, 459-465.	15.6	59
39	Model selection, identification and validation in anaerobic digestion: A review. <i>Water Research</i> , 2011, 45, 5347-5364.	5.3	243
40	Modular tubular microbial fuel cells for energy recovery during sucrose wastewater treatment at low organic loading rate. <i>Bioresource Technology</i> , 2010, 101, 1190-1198.	4.8	133
41	Simultaneous effects of pH and substrate concentration on hydrogen production by acidogenic fermentation. <i>Electronic Journal of Biotechnology</i> , 2010, 13, .	1.2	1
42	Metabolic models to investigate energy limited anaerobic ecosystems. <i>Water Science and Technology</i> , 2009, 60, 1669-1675.	1.2	11
43	An implementation framework for wastewater treatment models requiring a minimum programming expertise. <i>Water Science and Technology</i> , 2009, 59, 367-380.	1.2	14
44	Determination of the adequate minimum model complexity required in anaerobic bioprocesses using experimental data. <i>Journal of Chemical Technology and Biotechnology</i> , 2008, 83, 1694-1702.	1.6	13
45	Energy-based models for environmental biotechnology. <i>Trends in Biotechnology</i> , 2008, 26, 366-374.	4.9	58
46	ADM1 can be applied to continuous bio-hydrogen production using a variable stoichiometry approach. <i>Water Research</i> , 2008, 42, 4379-4385.	5.3	52
47	Modeling mixed culture fermentations; the role of different electron carriers. <i>Water Science and Technology</i> , 2008, 57, 493-497.	1.2	14
48	Microbial ecology meets electrochemistry: electricity-driven and driving communities. <i>ISME Journal</i> , 2007, 1, 9-18.	4.4	433
49	A hydrogen-based variable-gain controller for anaerobic digestion processes. <i>Water Science and Technology</i> , 2006, 54, 57-62.	1.2	22
50	Can we assess the model complexity for a bioprocess: theory and example of the anaerobic digestion process. <i>Water Science and Technology</i> , 2006, 53, 85-92.	1.2	43
51	Modeling product formation in anaerobic mixed culture fermentations. <i>Biotechnology and Bioengineering</i> , 2006, 93, 592-606.	1.7	196
52	Variable stoichiometry with thermodynamic control in ADM1. <i>Water Science and Technology</i> , 2006, 54, 101-110.	1.2	47
53	Optimization under fuzzy if-then rules using stochastic algorithms. <i>Computer Aided Chemical Engineering</i> , 2005, 20, 181-186.	0.3	1
54	An integrated system to remote monitor and control anaerobic wastewater treatment plants through the internet. <i>Water Science and Technology</i> , 2005, 52, 457-464.	1.2	20

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55	Diagnosis of acidification states in an anaerobic wastewater treatment plant using a fuzzy-based expert system. <i>Control Engineering Practice</i> , 2004, 12, 59-64.	3.2	46
56	Expert system for the on-line diagnosis of anaerobic wastewater treatment plants. <i>Water Science and Technology</i> , 2002, 45, 195-200.	1.2	11
57	Rule-based diagnosis and supervision of a pilot-scale wastewater treatment plant using fuzzy logic techniques. <i>Expert Systems With Applications</i> , 2002, 22, 11-20.	4.4	55
58	Advanced monitoring and control of anaerobic wastewater treatment plants: diagnosis and supervision by a fuzzy-based expert system. <i>Water Science and Technology</i> , 2001, 43, 191-198.	1.2	35