

Albert Guisasola

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

4,237
citations

101384

36
h-index

118652

62
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97
all docs

97
docs citations

97
times ranked

3659
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on the integration of mainstream P-recovery strategies with enhanced biological phosphorus removal. <i>Water Research</i> , 2022, 212, 118102.	5.3	75
2	Systematic calibration of N ₂ O emissions from a full-scale WWTP including a tracer test and a global sensitivity approach. <i>Chemical Engineering Journal</i> , 2022, 435, 134733.	6.6	7
3	Graphene functionalization with metallic Pt nanoparticles: A path to cost-efficient H ₂ production in microbial electrolysis cells. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 15397-15409.	3.8	7
4	A plant-wide model describing GHG emissions and nutrient recovery options for water resource recovery facilities. <i>Water Research</i> , 2022, 215, 118223.	5.3	19
5	Assessment of the significance of heavy metals, pesticides and other contaminants in recovered products from water resource recovery facilities. <i>Resources, Conservation and Recycling</i> , 2022, 182, 106313.	5.3	8
6	Bioelectrochemically-assisted degradation of chloroform by a co-culture of <i>Dehalobacter</i> and <i>Dehalobacterium</i> . <i>Environmental Science and Ecotechnology</i> , 2022, 12, 100199.	6.7	4
7	Smart-Plant Decision Support System (SP-DSS): Defining a multi-criteria decision-making framework for the selection of WWTP configurations with resource recovery. <i>Journal of Cleaner Production</i> , 2022, 367, 132873.	4.6	6
8	Achieving simultaneous biological COD and phosphorus removal in a continuous anaerobic/aerobic A-stage system. <i>Water Research</i> , 2021, 190, 116703.	5.3	25
9	Electrochemical dehalogenation of dibromomethane and 1,2-dibromoethane to non-toxic products using a carbon fiber brush electrode. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 335-340.	1.6	6
10	Implementation of a Sulfide-Air Fuel Cell Coupled to a Sulfate-Reducing Biocathode for Elemental Sulfur Recovery. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 5571.	1.2	7
11	Optimisation of the operational parameters for a comprehensive bioelectrochemical treatment of acid mine drainage. <i>Journal of Hazardous Materials</i> , 2021, 409, 124944.	6.5	17
12	Comparing continuous and batch operation for high-rate treatment of urban wastewater. <i>Biomass and Bioenergy</i> , 2021, 149, 106077.	2.9	13
13	Enhanced dechlorination of 1,2-dichloropropane to propene in a bioelectrochemical system mediated by <i>Dehalogenimonas</i> . <i>Journal of Hazardous Materials</i> , 2021, 416, 126234.	6.5	14
14	Less is More: A Comprehensive Study on the Effects of the Number of Gas Diffusion Layers on Air-Cathode Microbial Fuel Cells. <i>ChemElectroChem</i> , 2021, 8, 3416-3426.	1.7	4
15	Development and optimization of a bioelectrochemical system for ammonium recovery from wastewater as fertilizer. <i>Cleaner Engineering and Technology</i> , 2021, 4, 100142.	2.1	9
16	Nitrite and nitrate inhibition thresholds for a glutamate-fed bio-P sludge. <i>Chemosphere</i> , 2021, 283, 131173.	4.2	8
17	Correlating the biochemical methane potential of bio-P sludge with its polyhydroxyalkanoate content. <i>Journal of Cleaner Production</i> , 2020, 242, 118495.	4.6	16
18	Bioelectrochemical systems for energy storage: A scaled-up power-to-gas approach. <i>Applied Energy</i> , 2020, 260, 114138.	5.1	37

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19	Living on the edge: Prospects for enhanced biological phosphorus removal at low sludge retention time under different temperature scenarios. <i>Chemosphere</i> , 2020, 258, 127230.	4.2	12
20	Can wastewater feed cities? Determining the feasibility and environmental burdens of struvite recovery and reuse for urban regions. <i>Science of the Total Environment</i> , 2020, 737, 139783.	3.9	33
21	Evaluation of the integration of P recovery, polyhydroxyalkanoate production and short cut nitrogen removal in a mainstream wastewater treatment process. <i>Water Research</i> , 2020, 172, 115474.	5.3	52
22	Repeatability of low scan rate cyclic voltammetry in bioelectrochemical systems and effects on their performance. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 1533-1541.	1.6	9
23	Recovery of elemental sulfur with a novel integrated bioelectrochemical system with an electrochemical cell. <i>Science of the Total Environment</i> , 2019, 677, 175-183.	3.9	20
24	Hydrogen production from crude glycerol in an alkaline microbial electrolysis cell. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 17204-17213.	3.8	42
25	Long-term stability of an enhanced biological phosphorus removal system in a phosphorus recovery scenario. <i>Journal of Cleaner Production</i> , 2019, 214, 308-318.	4.6	34
26	Treatment of real flue gas desulfurization wastewater in an autotrophic biocathode in view of elemental sulfur recovery: Microbial communities involved. <i>Science of the Total Environment</i> , 2019, 657, 945-952.	3.9	42
27	Glutamate as sole carbon source for enhanced biological phosphorus removal. <i>Science of the Total Environment</i> , 2019, 657, 1398-1408.	3.9	46
28	Application of Bioelectrochemical Systems for the Treatment of Wastewaters With Sulfur Species. , 2019, , 641-663.		8
29	From Methanol to Electricity and Hydrogen Through Bioelectrochemical Systems. , 2018, , 339-359.		0
30	Oxygen barrier and catalytic effect of the cathodic biofilm in single chamber microbial fuel cells. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 2199-2207.	1.6	17
31	Development of an ASM2d-N ₂ O model to describe nitrous oxide emissions in municipal WWTPs under dynamic conditions. <i>Chemical Engineering Journal</i> , 2018, 335, 185-196.	6.6	51
32	Bioelectrochemical hydrogen production with cheese whey as sole substrate. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 173-179.	1.6	20
33	Enhanced Biological Phosphorus Removal at low Sludge Retention Time in view of its integration in A-stage systems. <i>Water Research</i> , 2017, 118, 217-226.	5.3	37
34	A review on nitrous oxide (N ₂ O) emissions during biological nutrient removal from municipal wastewater and sludge reject water. <i>Science of the Total Environment</i> , 2017, 596-597, 106-123.	3.9	221
35	Evaluation of key parameters on simultaneous sulfate reduction and sulfide oxidation in an autotrophic biocathode. <i>Water Research</i> , 2017, 123, 301-310.	5.3	41
36	Bioelectrochemical hydrogen production from urban wastewater on a pilot scale. <i>Journal of Power Sources</i> , 2017, 356, 500-509.	4.0	105

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37	Treatment of high-strength sulfate wastewater using an autotrophic biocathode in view of elemental sulfur recovery. <i>Water Research</i> , 2016, 105, 395-405.	5.3	83
38	Low-cost fuel-cell based sensor of hydrogen production in lab scale microbial electrolysis cells. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 20465-20472.	3.8	8
39	Performance of microbial electrolysis cells with bioanodes grown at different external resistances. <i>Water Science and Technology</i> , 2016, 73, 1129-1135.	1.2	12
40	Microbial electrolysis cell performance using non-buffered and low conductivity wastewaters. <i>Chemical Engineering Journal</i> , 2016, 289, 341-348.	6.6	35
41	Increased performance of hydrogen production in microbial electrolysis cells under alkaline conditions. <i>Bioelectrochemistry</i> , 2016, 109, 57-62.	2.4	36
42	Assessment of crude glycerol for Enhanced Biological Phosphorus Removal: Stability and role of long chain fatty acids. <i>Chemosphere</i> , 2015, 141, 50-56.	4.2	11
43	Controlled crude glycerol dosage to prevent EBPR failures in C/N/P removal WWTPs. <i>Chemical Engineering Journal</i> , 2015, 271, 114-127.	6.6	24
44	2-Bromoethanesulfonate degradation in bioelectrochemical systems. <i>Bioelectrochemistry</i> , 2015, 105, 44-49.	2.4	40
45	Conditions for high resistance to starvation periods in bioelectrochemical systems. <i>Bioelectrochemistry</i> , 2015, 106, 328-334.	2.4	15
46	Anode Biofilms of <i>Geothalobacter ferrooxidans</i> Exhibit Electrochemical Signatures of Multiple Electron Transport Pathways. <i>Langmuir</i> , 2015, 31, 12552-12559.	1.6	34
47	Microbial community analysis in a long-term membrane-less microbial electrolysis cell with hydrogen and methane production. <i>Bioelectrochemistry</i> , 2015, 106, 359-368.	2.4	69
48	Enhanced Performance of Bioelectrochemical Hydrogen Production using a pH Control Strategy. <i>ChemSusChem</i> , 2015, 8, 389-397.	3.6	38
49	Hydrogen production in single chamber microbial electrolysis cells with different complex substrates. <i>Water Research</i> , 2015, 68, 601-615.	5.3	154
50	A novel control strategy for efficient biological phosphorus removal with carbon-limited wastewaters. <i>Water Science and Technology</i> , 2014, 70, 691-697.	1.2	10
51	Methanol opportunities for electricity and hydrogen production in bioelectrochemical systems. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 770-777.	3.8	32
52	Obtaining microbial communities with exoelectrogenic activity from anaerobic sludge using a simplified procedure. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 1727-1732.	1.6	10
53	Examining thiosulfate-driven autotrophic denitrification through respirometry. <i>Chemosphere</i> , 2014, 113, 1-8.	4.2	64
54	Revealing the proliferation of hydrogen scavengers in a single-chamber microbial electrolysis cell using electron balances. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 15917-15927.	3.8	48

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55	Effect of nitrite, limited reactive settler and plant design configuration on the predicted performance of simultaneous C/N/P removal WWTPs. <i>Bioresource Technology</i> , 2013, 136, 680-688.	4.8	23
56	The selective role of nitrite in the PAO/GAO competition. <i>Chemosphere</i> , 2013, 93, 612-618.	4.2	42
57	Assessment of four different cathode materials at different initial pHs using unbuffered catholytes in microbial electrolysis cells. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 2951-2956.	3.8	65
58	Development and economic assessment of different WWTP control strategies for optimal simultaneous removal of carbon, nitrogen and phosphorus. <i>Computers and Chemical Engineering</i> , 2013, 53, 164-177.	2.0	41
59	Methanol-driven enhanced biological phosphorus removal with a syntrophic consortium. <i>Biotechnology and Bioengineering</i> , 2013, 110, 391-400.	1.7	13
60	Glycerol as a sole carbon source for enhanced biological phosphorus removal. <i>Water Research</i> , 2012, 46, 2983-2991.	5.3	50
61	Understanding the detrimental effect of nitrate presence on EBPR systems: effect of the plant configuration. <i>Journal of Chemical Technology and Biotechnology</i> , 2012, 87, 1508-1511.	1.6	26
62	Multi-criteria selection of optimum WWTP control setpoints based on microbiology-related failures, effluent quality and operating costs. <i>Chemical Engineering Journal</i> , 2012, 188, 23-29.	6.6	51
63	Roof selection for rainwater harvesting: Quantity and quality assessments in Spain. <i>Water Research</i> , 2011, 45, 3245-3254.	5.3	234
64	The nature of the carbon source rules the competition between PAO and denitrifiers in systems for simultaneous biological nitrogen and phosphorus removal. <i>Water Research</i> , 2011, 45, 4793-4802.	5.3	133
65	Assessment of a bioaugmentation strategy with polyphosphate accumulating organisms in a nitrification/denitrification sequencing batch reactor. <i>Bioresource Technology</i> , 2011, 102, 7678-7684.	4.8	15
66	Improving the performance of a WWTP control system by model-based setpoint optimisation. <i>Environmental Modelling and Software</i> , 2011, 26, 492-497.	1.9	74
67	Comparison of a nitrite-based anaerobic-anoxic EBPR system with propionate or acetate as electron donors. <i>Process Biochemistry</i> , 2011, 46, 714-720.	1.8	38
68	A two-sludge system for simultaneous biological C, N and P removal via the nitrite pathway. <i>Water Science and Technology</i> , 2011, 64, 1142-1147.	1.2	18
69	Inhibitory impact of quinone-like compounds over partial nitrification. <i>Chemosphere</i> , 2010, 80, 474-480.	4.2	10
70	Benefits of carbon dioxide as pH reducer in chlorinated indoor swimming pools. <i>Chemosphere</i> , 2010, 80, 428-432.	4.2	8
71	Oxidation of biologically produced elemental sulfur under neutrophilic conditions. <i>Journal of Chemical Technology and Biotechnology</i> , 2010, 85, 378-386.	1.6	25
72	Modelling and simulation revealing mechanisms likely responsible for achieving the nitrite pathway through aeration control. <i>Water Science and Technology</i> , 2010, 61, 1459-1465.	1.2	2

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73	Development of a kinetic model for elemental sulfur and sulfate formation from the autotrophic sulfide oxidation using respirometric techniques. <i>Water Science and Technology</i> , 2009, 59, 1323-1329.	1.2	16
74	Dynamic peroxide method for k_L estimation. <i>Journal of Chemical Technology and Biotechnology</i> , 2009, 84, 1104-1110.	1.6	0
75	Failure of an enriched nitrite-DPAO population to use nitrate as an electron acceptor. <i>Process Biochemistry</i> , 2009, 44, 689-695.	1.8	54
76	Experimental assessment and modelling of the proton production linked to phosphorus release and uptake in EBPR systems. <i>Water Research</i> , 2009, 43, 2431-2440.	5.3	18
77	Development of a model for assessing methane formation in rising main sewers. <i>Water Research</i> , 2009, 43, 2874-2884.	5.3	107
78	Impact of nitrate addition on biofilm properties and activities in rising main sewers. <i>Water Research</i> , 2009, 43, 4225-4237.	5.3	106
79	Sulfur transformation in rising main sewers receiving nitrate dosage. <i>Water Research</i> , 2009, 43, 4430-4440.	5.3	155
80	Methane formation in sewer systems. <i>Water Research</i> , 2008, 42, 1421-1430.	5.3	254
81	On-line titrimetric monitoring of anaerobic-anoxic EBPR processes. <i>Water Science and Technology</i> , 2008, 57, 1149-1154.	1.2	10
82	Inorganic carbon limitations on nitrification: Experimental assessment and modelling. <i>Water Research</i> , 2007, 41, 277-286.	5.3	101
83	Integrated catalytic wet air oxidation and aerobic biological treatment in a municipal WWTP of a high-strength o-cresol wastewater. <i>Chemosphere</i> , 2007, 66, 2096-2105.	4.2	45
84	On-line monitoring of the enhanced biological phosphorus removal process using respirometry and titrimetry. <i>Biochemical Engineering Journal</i> , 2007, 35, 371-379.	1.8	24
85	Net P-removal deterioration in enriched PAO sludge subjected to permanent aerobic conditions. <i>Journal of Biotechnology</i> , 2006, 123, 117-126.	1.9	47
86	Improving the start-up of an EBPR system using OUR to control the aerobic phase length: a simulation study. <i>Water Science and Technology</i> , 2006, 53, 253-262.	1.2	5
87	Observation and mathematical description of the acceleration phenomenon in batch respirograms associated with ammonium oxidation. <i>Water Science and Technology</i> , 2006, 54, 181-188.	1.2	19
88	The Influence of Experimental Data Quality and Quantity on Parameter Estimation Accuracy. <i>Education for Chemical Engineers</i> , 2006, 1, 139-145.	2.8	34
89	Simulation of a novel strategy for improving a biological phosphorus removal system start-up. <i>Computer Aided Chemical Engineering</i> , 2005, 20, 475-480.	0.3	0
90	Aerobic phosphorus release linked to acetate uptake: Influence of PAO intracellular storage compounds. <i>Biochemical Engineering Journal</i> , 2005, 26, 184-190.	1.8	74

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91	A new approach for modelling simultaneous storage and growth processes for activated sludge systems under aerobic conditions. <i>Biotechnology and Bioengineering</i> , 2005, 92, 600-613.	1.7	98
92	Respirometric estimation of the oxygen affinity constants for biological ammonium and nitrite oxidation. <i>Journal of Chemical Technology and Biotechnology</i> , 2005, 80, 388-396.	1.6	132
93	Limitations of ASM1 and ASM3: a comparison based on batch oxygen uptake rate profiles from different full-scale wastewater treatment plants. <i>Water Science and Technology</i> , 2005, 52, 69-77.	1.2	37
94	An off-line respirometric procedure to determine inhibition and toxicity of biodegradable compounds in biomass from an industrial WWTP. <i>Water Science and Technology</i> , 2004, 48, 267-275.	1.2	22
95	Enhanced biological phosphorus removal in a sequencing batch reactor using propionate as the sole carbon source. <i>Biotechnology and Bioengineering</i> , 2004, 85, 56-67.	1.7	158
96	Aerobic phosphorus release linked to acetate uptake in bio-P sludge: Process modeling using oxygen uptake rate. <i>Biotechnology and Bioengineering</i> , 2004, 85, 722-733.	1.7	55
97	Optimising a novel SBR configuration for enhanced biological phosphorus removal and recovery (EBPR2). , 0, 68, 319-329.		3