

Daniel Puyol

List of Publications by Year in descending order

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62
papers

2,222
citations

218592

26
h-index

223716

46
g-index

65
all docs

65
docs citations

65
times ranked

2323
citing authors

#	ARTICLE	IF	CITATIONS
1	Resource Recovery from Wastewater by Biological Technologies: Opportunities, Challenges, and Prospects. <i>Frontiers in Microbiology</i> , 2016, 7, 2106.	1.5	354
2	Domestic wastewater treatment with purple phototrophic bacteria using a novel continuous photo anaerobic membrane bioreactor. <i>Water Research</i> , 2016, 100, 486-495.	5.3	159
3	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
4	Purple phototrophic bacteria for resource recovery: Challenges and opportunities. <i>Biotechnology Advances</i> , 2020, 43, 107567.	6.0	103
5	Low temperature treatment of domestic wastewater by purple phototrophic bacteria: Performance, activity, and community.. <i>Water Research</i> , 2016, 100, 537-545.	5.3	84
6	Nitrite (not free nitrous acid) is the main inhibitor of the anammox process at common pH conditions. <i>Biotechnology Letters</i> , 2014, 36, 547-551.	1.1	69
7	A mechanistic model for anaerobic phototrophs in domestic wastewater applications: Photo-anaerobic model (PANM). <i>Water Research</i> , 2017, 116, 241-253.	5.3	68
8	Pre-exposure to nitrite in the absence of ammonium strongly inhibits anammox. <i>Water Research</i> , 2014, 48, 52-60.	5.3	66
9	Inhibition of anaerobic ammonium oxidation by heavy metals. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 830-837.	1.6	66
10	White and infrared light continuous photobioreactors for resource recovery from poultry processing wastewater – A comparison. <i>Water Research</i> , 2018, 144, 665-676.	5.3	64
11	Kinetic characterization of <i>Brocadia</i> spp.-dominated anammox cultures. <i>Bioresource Technology</i> , 2013, 139, 94-100.	4.8	63
12	Comparison of UASB and EGSB performance on the anaerobic biodegradation of 2,4-dichlorophenol. <i>Chemosphere</i> , 2009, 76, 1192-1198.	4.2	58
13	Exploring the effects of ZVI addition on resource recovery in the anaerobic digestion process. <i>Chemical Engineering Journal</i> , 2018, 335, 703-711.	6.6	56
14	Cosmetic wastewater treatment by upflow anaerobic sludge blanket reactor. <i>Journal of Hazardous Materials</i> , 2011, 185, 1059-1065.	6.5	46
15	Starved anammox cells are less resistant to NO_2^- inhibition. <i>Water Research</i> , 2014, 65, 170-176.	5.3	45
16	Role of biogenic sulfide in attenuating zinc oxide and copper nanoparticle toxicity to acetoclastic methanogenesis. <i>Journal of Hazardous Materials</i> , 2015, 283, 755-763.	6.5	45
17	Vacuum promotes metabolic shifts and increases biogenic hydrogen production in dark fermentation systems. <i>Frontiers of Environmental Science and Engineering</i> , 2016, 10, 513-521.	3.3	45
18	Biodiesel and biogas production from <i>Isochrysis galbana</i> using dry and wet lipid extraction: A biorefinery approach. <i>Renewable Energy</i> , 2020, 146, 188-195.	4.3	42

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19	Biological and Bioelectrochemical Systems for Hydrogen Production and Carbon Fixation Using Purple Phototrophic Bacteria. <i>Frontiers in Energy Research</i> , 2018, 6, .	1.2	36
20	Up-scale challenges on biopolymer production from waste streams by Purple Phototrophic Bacteria mixed cultures: A critical review. <i>Bioresource Technology</i> , 2021, 327, 124820.	4.8	31
21	The role of pH on the resistance of resting and active anammox bacteria to NO ₂ ⁻ inhibition. <i>Biotechnology and Bioengineering</i> , 2014, 111, 1949-1956.	1.7	30
22	Enhanced anaerobic degradability of highly polluted pesticides-bearing wastewater under thermophilic conditions. <i>Journal of Hazardous Materials</i> , 2017, 339, 320-329.	6.5	30
23	High pH (and not free ammonia) is responsible for Anammox inhibition in mildly alkaline solutions with excess of ammonium. <i>Biotechnology Letters</i> , 2014, 36, 1981-1986.	1.1	29
24	Removal of pharmaceutical compounds from urban wastewater by an advanced bio-oxidation process based on fungi <i>Trametes versicolor</i> immobilized in a continuous RBC system. <i>Environmental Science and Pollution Research</i> , 2018, 25, 34884-34892.	2.7	29
25	Assessing the potential of purple phototrophic bacteria for the simultaneous treatment of piggery wastewater and upgrading of biogas. <i>Bioresource Technology</i> , 2019, 281, 10-17.	4.8	28
26	Inhibition of methanogenesis by chlorophenols: a kinetic approach. <i>New Biotechnology</i> , 2012, 30, 51-61.	2.4	27
27	Effect of 2,4,6-trichlorophenol on the microbial activity of adapted anaerobic granular sludge bioaugmented with <i>Desulfitobacterium</i> strains. <i>New Biotechnology</i> , 2011, 29, 79-89.	2.4	26
28	Comparison of bioaugmented EGSB and GAC-FBB reactors and their combination with aerobic SBR for the abatement of chlorophenols. <i>Chemical Engineering Journal</i> , 2015, 259, 277-285.	6.6	25
29	Low-temperature anaerobic treatment of low-strength pentachlorophenol-bearing wastewater. <i>Bioresource Technology</i> , 2013, 140, 349-356.	4.8	24
30	Novel approach for the treatment of the organic fraction of municipal solid waste: Coupling thermal hydrolysis with anaerobic digestion and photo-fermentation. <i>Science of the Total Environment</i> , 2020, 714, 136845.	3.9	22
31	Elemental copper nanoparticle toxicity to different trophic groups involved in anaerobic and anoxic wastewater treatment processes. <i>Science of the Total Environment</i> , 2015, 512-513, 308-315.	3.9	21
32	Contamination of N-poor wastewater with emerging pollutants does not affect the performance of purple phototrophic bacteria and the subsequent resource recovery potential. <i>Journal of Hazardous Materials</i> , 2020, 385, 121617.	6.5	21
33	Resource Recovery Potential From Lignocellulosic Feedstock Upon Lysis With Ionic Liquids. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 6, 119.	2.0	20
34	A systematic optimization of piggery wastewater treatment with purple phototrophic bacteria. <i>Chemosphere</i> , 2020, 253, 126621.	4.2	20
35	Elemental copper nanoparticle toxicity to anaerobic ammonium oxidation and the influence of ethylene diamine-tetra acetic acid (EDTA) on copper toxicity. <i>Chemosphere</i> , 2017, 184, 730-737.	4.2	19
36	Anaerobic treatment of wastewater from used industrial oil recovery. <i>Journal of Chemical Technology and Biotechnology</i> , 2012, 87, 1320-1328.	1.6	18

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37	Exploring the inhibition boundaries of mixed cultures of purple phototrophic bacteria for wastewater treatment in anaerobic conditions. <i>Water Research</i> , 2020, 183, 116057.	5.3	18
38	Food waste valorization by purple phototrophic bacteria and anaerobic digestion after thermal hydrolysis. <i>Biomass and Bioenergy</i> , 2020, 142, 105803.	2.9	15
39	Unraveling PHA production from urban organic waste with purple phototrophic bacteria via organic overload. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 166, 112687.	8.2	15
40	Wastewater sludges pretreated by different oxidation systems at mild conditions to promote the biogas formation in anaerobic processes. <i>Environmental Science and Pollution Research</i> , 2016, 23, 24393-24401.	2.7	14
41	Anaerobic biodegradability of mixtures of pesticides in an expanded granular sludge bed reactor. <i>Water Science and Technology</i> , 2014, 69, 532-538.	1.2	13
42	Dark fermentation: isolation and characterization of hydrogen-producing strains from sludges. <i>International Microbiology</i> , 2013, 16, 53-62.	1.1	12
43	Integrated sustainable process for polyhydroxyalkanoates production from lignocellulosic waste by purple phototrophic bacteria. <i>GCB Bioenergy</i> , 2021, 13, 862-875.	2.5	11
44	Anaerobic biodegradation of 2,4,6-trichlorophenol by methanogenic granular sludge: role of co-substrates and methanogenic inhibition. <i>Water Science and Technology</i> , 2009, 59, 1449-1456.	1.2	9
45	The intracellular proton gradient enables anaerobic ammonia oxidizing (anammox) bacteria to tolerate NO ₂ ⁻ inhibition. <i>Journal of Biotechnology</i> , 2014, 192, 265-267.	1.9	8
46	Substrate availability drives mixed culture fermentation of glucose to lactate at steady state. <i>Biotechnology and Bioengineering</i> , 2021, 118, 1617-1629.	1.7	8
47	Anaerobic biodegradation of 2,4,6-trichlorophenol in expanded granular sludge bed and fluidized bed biofilm reactors bioaugmented with <i>Desulfitobacterium</i> spp.. <i>Water Science and Technology</i> , 2011, 64, 293-299.	1.2	7
48	Assessment of Voltage Influence in Carbon Dioxide Fixation Process by a Photo-Bioelectrochemical System under Photoheterotrophy. <i>Microorganisms</i> , 2021, 9, 474.	1.6	7
49	Editorial: Resource Recovery from Wastewater by Biological Technologies. <i>Frontiers in Microbiology</i> , 2017, 8, 998.	1.5	6
50	Alkalinity, and Not the Oxidation State of the Organic Substrate, Is the Key Factor in Domestic Wastewater Treatment by Mixed Cultures of Purple Phototrophic Bacteria. <i>Resources</i> , 2020, 9, 88.	1.6	5
51	Anaerobic digestion of purple phototrophic bacteria – The release step of the partition-release-recover concept. <i>Bioresource Technology</i> , 2020, 306, 123125.	4.8	5
52	Synergistic thermophilic co-fermentation of food and lignocellulosic urban waste with steam explosion pretreatment for efficient hydrogen and carboxylic acid production. <i>Biofuels, Bioproducts and Biorefining</i> , 2022, 16, 499-509.	1.9	5
53	Kinetics and thermodynamics of anaerobic ammonium oxidation process using <i>Brocadia</i> spp. dominated mixed cultures. <i>Water Science and Technology</i> , 2014, 69, 1682-1688.	1.2	4
54	Purple phototrophic bacteria as a platform to create the next generation of wastewater treatment plants: Energy and resource recovery. , 2020, , 255-280.		4

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55	Optimization of H ₂ Production through Minimization of CO ₂ Emissions by Mixed Cultures of Purple Phototrophic Bacteria in Aqueous Samples. <i>Water (Switzerland)</i> , 2020, 12, 2015.	1.2	3
56	The synergy of catalysis and biotechnology as a tool to modulate the composition of biopolymers (polyhydroxyalkanoates) with lignocellulosic wastes. <i>Catalysis Today</i> , 2022, 397-399, 220-231.	2.2	3
57	Efficient Treatment of Synthetic Wastewater Contaminated with Emerging Pollutants by Anaerobic Purple Phototrophic Bacteria. <i>Lecture Notes in Civil Engineering</i> , 2017, , 324-330.	0.3	2
58	ZVI Addition in Continuous Anaerobic Digestion Systems Dramatically Decreases P Recovery Potential: Dynamic Modelling. <i>Lecture Notes in Civil Engineering</i> , 2017, , 211-217.	0.3	2
59	Inhibition of the metabolism of mixed cultures of purple phototrophic bacteria by typical refinery and petrochemistry wastewater pollutants. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 1893-1901.	1.6	1
60	Life Cycle Analysis of Anaerobic Digestion of Wastewater Treatment Plants. , 2018, , 269-295.		1
61	Low-Temperature Anaerobic Treatment of Low-Strength Pentachlorophenol-Bearing Wastewater. , 2015, , 31-54.		0
62	Anaerobic Treatment of Wastewater from Used Industrial Oil Recovery. , 2015, , 3-25.		0