

# Francisco Jesus Fernndez

## List of Publications by Citations

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107  
papers

2,699  
citations

30  
h-index

47  
g-index

114  
ext. papers

3,036  
ext. citations

6.2  
avg, IF

5.35  
L-index

#	Paper	IF	Citations
107	Operation of a horizontal subsurface flow constructed wetland--microbial fuel cell treating wastewater under different organic loading rates. <i>Water Research</i> , <b>2013</b> , 47, 6731-8	12.5	178
106	Microbial fuel cell with an algae-assisted cathode: A preliminary assessment. <i>Journal of Power Sources</i> , <b>2013</b> , 242, 638-645	8.9	142
105	Short-term effects of temperature and COD in a microbial fuel cell. <i>Applied Energy</i> , <b>2013</b> , 101, 213-217	10.7	109
104	Removal of nitrates from groundwater by electrocoagulation. <i>Chemical Engineering Journal</i> , <b>2011</b> , 171, 1012-1017	14.7	108
103	Composting domestic sewage sludge with natural zeolites in a rotary drum reactor. <i>Bioresource Technology</i> , <b>2011</b> , 102, 1447-54	11	107
102	Electrochemical phosphates removal using iron and aluminium electrodes. <i>Chemical Engineering Journal</i> , <b>2011</b> , 172, 137-143	14.7	88
101	Lagooning microbial fuel cells: A first approach by coupling electricity-producing microorganisms and algae. <i>Applied Energy</i> , <b>2013</b> , 110, 220-226	10.7	81
100	Influence of pH, temperature and volatile fatty acids on hydrogen production by acidogenic fermentation. <i>International Journal of Hydrogen Energy</i> , <b>2011</b> , 36, 15595-15601	6.7	76
99	Feasibility of anaerobic co-digestion as a treatment option of meat industry wastes. <i>Bioresource Technology</i> , <b>2009</b> , 100, 1903-9	11	67
98	Bacterial-fungal interactions enhance power generation in microbial fuel cells and drive dye decolourisation by an ex situ and in situ electro-Fenton process. <i>Bioresource Technology</i> , <b>2013</b> , 148, 39-46 <sup>11</sup>	11	66
97	Denitrification potential of industrial wastewaters. <i>Water Research</i> , <b>2005</b> , 39, 3715-26	12.5	60
96	Removal of arsenic by iron and aluminium electrochemically assisted coagulation. <i>Separation and Purification Technology</i> , <b>2011</b> , 79, 15-19	8.3	58
95	Modelling aerobic biodegradation of atrazine and 2,4-dichlorophenoxy acetic acid by mixed-cultures. <i>Bioresource Technology</i> , <b>2017</b> , 243, 1044-1050	11	43
94	Feasibility of composting combinations of sewage sludge, olive mill waste and winery waste in a rotary drum reactor. <i>Waste Management</i> , <b>2010</b> , 30, 1948-56	8.6	43
93	An evaluation of aerobic and anaerobic sludges as start-up material for microbial fuel cell systems. <i>New Biotechnology</i> , <b>2012</b> , 29, 415-20	6.4	38
92	Kinetic and stoichiometric modelling of acidogenic fermentation of glucose and fructose. <i>Biomass and Bioenergy</i> , <b>2011</b> , 35, 3877-3883	5.3	37
91	Use of neurofuzzy networks to improve wastewater flow-rate forecasting. <i>Environmental Modelling and Software</i> , <b>2009</b> , 24, 686-693	5.2	36

90	Biodegradability of meat industry wastes under anaerobic and aerobic conditions. <i>Water Research</i> , <b>2008</b> , 42, 3767-74	12.5	36
89	Operational Optimisation of Pilot Scale Biological Nutrient Removal at the Ciudad Real (Spain) Domestic Wastewater Treatment Plant. <i>Water, Air, and Soil Pollution</i> , <b>2004</b> , 152, 279-296	2.6	35
88	Enhancing the co-composting of olive mill wastes and sewage sludge by the addition of an industrial waste. <i>Bioresource Technology</i> , <b>2008</b> , 99, 6346-53	11	34
87	Study of a photosynthetic MFC for energy recovery from synthetic industrial fruit juice wastewater. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 21828-21836	6.7	33
86	Characterization of light/dark cycle and long-term performance test in a photosynthetic microbial fuel cell. <i>Fuel</i> , <b>2015</b> , 140, 209-216	7.1	32
85	Kinetic model and study of the influence of pH, temperature and undissociated acids on acidogenic fermentation. <i>Biochemical Engineering Journal</i> , <b>2012</b> , 66, 66-72	4.2	31
84	Reduction of aeration costs by tuning a multi-set point on/off controller: A case study. <i>Control Engineering Practice</i> , <b>2011</b> , 19, 1231-1237	3.9	31
83	Modeling and monitoring of the acclimatization of conventional activated sludge to a biohydrogen producing culture by biokinetic control. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 10927-10933	6.7	31
82	Evaluation of carbon degradation during co-composting of exhausted grape marc with different biowastes. <i>Chemosphere</i> , <b>2008</b> , 73, 670-7	8.4	31
81	Re-use of winery wastewaters for biological nutrient removal. <i>Water Science and Technology</i> , <b>2007</b> , 56, 95-102	2.2	31
80	Use of agro-food wastewaters for the optimisation of the denitrification process. <i>Water Science and Technology</i> , <b>2007</b> , 55, 63-70	2.2	31
79	Influence of industrial discharges on the performance and population of a biological nutrient removal process. <i>Biochemical Engineering Journal</i> , <b>2007</b> , 34, 51-61	4.2	30
78	High-rate acidophilic ferrous iron oxidation in a biofilm airlift reactor and the role of the carrier material. <i>Biotechnology and Bioengineering</i> , <b>2005</b> , 90, 462-72	4.9	30
77	Fermentation of agro-food wastewaters by activated sludge. <i>Water Research</i> , <b>2007</b> , 41, 1635-44	12.5	29
76	Improving biodegradability of soil washing effluents using anodic oxidation. <i>Bioresource Technology</i> , <b>2018</b> , 252, 1-6	11	28
75	Application of a genetic algorithm to n-K power system security assessment. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2013</b> , 49, 114-121	5.1	28
74	Oxygen availability effect on the performance of air-breathing cathode microbial fuel cell. <i>Biotechnology Progress</i> , <b>2015</b> , 31, 900-7	2.8	28
73	Kinetics of biodegradation of diesel fuel by enriched microbial consortia from polluted soils. <i>International Journal of Environmental Science and Technology</i> , <b>2012</b> , 9, 749-758	3.3	27

72	Electricity production by integration of acidogenic fermentation of fruit juice wastewater and fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 9028-9037	6.7	26
71	Importance of the combined effects of dissolved oxygen and pH on optimization of nitrogen removal in anammox-enriched granular sludge. <i>Process Biochemistry</i> , <b>2016</b> , 51, 1274-1282	4.8	26
70	A grey box model of glucose fermentation and syntrophic oxidation in microbial fuel cells. <i>Bioresource Technology</i> , <b>2016</b> , 200, 396-404	11	25
69	Combining bioadsorption and photoelectrochemical oxidation for the treatment of soil-washing effluents polluted with herbicide 2,4-D. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2017</b> , 92, 83-89	3.5	24
68	The salinity effects on the performance of a constructed wetland-microbial fuel cell. <i>Ecological Engineering</i> , <b>2017</b> , 107, 1-7	3.9	24
67	Feasibility of Different Bioremediation Strategies for Treatment of Clayey and Silty Soils Recently Polluted with Diesel Hydrocarbons. <i>Water, Air, and Soil Pollution</i> , <b>2012</b> , 223, 2473-2482	2.6	22
66	Monitoring respiration and biological stability during sludge composting with a modified dynamic respirometer. <i>Bioresource Technology</i> , <b>2011</b> , 102, 6562-8	11	22
65	Driving force of the better performance of metal-doped carbonaceous anodes in microbial fuel cells. <i>Applied Energy</i> , <b>2018</b> , 225, 52-59	10.7	22
64	Bioelectricity generation in a self-sustainable Microbial Solar Cell. <i>Bioresource Technology</i> , <b>2014</b> , 159, 451-4	11	20
63	Electro-oxidation of As(III) with dimensionally-stable and conductive-diamond anodes. <i>Journal of Hazardous Materials</i> , <b>2012</b> , 203-204, 22-8	12.8	20
62	By-products inhibition effects on bio-hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 7077-7083	6.7	20
61	Biodegradation kinetics of stored wastewater substrates by a mixed microbial culture. <i>Biochemical Engineering Journal</i> , <b>2005</b> , 26, 191-197	4.2	20
60	A mesocosm study of electrokinetic-assisted phytoremediation of atrazine-polluted soils. <i>Separation and Purification Technology</i> , <b>2020</b> , 233, 116044	8.3	20
59	A Critical View of Microbial Fuel Cells: What Is the Next Stage?. <i>ChemSusChem</i> , <b>2018</b> , 11, 4183-4192	8.3	20
58	Driving force behind electrochemical performance of microbial fuel cells fed with different substrates. <i>Chemosphere</i> , <b>2018</b> , 207, 313-319	8.4	20
57	Treatment of Soil-Washing Effluents Polluted with Herbicide Oxyfluorfen by Combined BiosorptionElectrolysis. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 1903-1910	3.9	19
56	Respiration indices and stability measurements of compost through electrolytic respirometry. <i>Journal of Environmental Management</i> , <b>2012</b> , 95 Suppl, S134-8	7.9	19
55	Agro-food wastewaters as external carbon source to enhance biological phosphorus removal. <i>Chemical Engineering Journal</i> , <b>2011</b> , 166, 559-567	14.7	19

54	Arsenic Removal from High-Arsenic Water Sources by Coagulation and Electrocoagulation. <i>Separation Science and Technology</i> , <b>2013</b> , 48, 508-514	2.5	18
53	The influence of sludge retention time on mixed culture microbial fuel cell start-ups. <i>Biochemical Engineering Journal</i> , <b>2017</b> , 123, 38-44	4.2	15
52	Optimization of the performance of an air-cathode MFC by changing solid retention time. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2017</b> , 92, 1746-1755	3.5	15
51	Influence of the methodology of inoculation in the performance of air-breathing microbial fuel cells. <i>Journal of Electroanalytical Chemistry</i> , <b>2017</b> , 803, 81-88	4.1	14
50	Electrochemical Advanced Oxidation Processes: An Overview of the Current Applications to Actual Industrial Effluents <b>2017</b> , 58,		14
49	Biological treatment of wastewater polluted with an oxyfluorfen-based commercial herbicide. <i>Chemosphere</i> , <b>2018</b> , 213, 244-251	8.4	14
48	Development of a module of stacks of air-breathing microbial fuel cells to light-up a strip of LEDs. <i>Electrochimica Acta</i> , <b>2018</b> , 274, 152-159	6.7	13
47	Energy recovery of biogas from juice wastewater through a short high temperature PEMFC stack. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 6937-6943	6.7	13
46	Feasibility of mixed enzymatic complexes to enhanced soil bioremediation processes. <i>Procedia Environmental Sciences</i> , <b>2011</b> , 9, 54-59		13
45	Kinetics of domestic wastewater COD removal by subsurface flow constructed wetlands using different plant species in temperate period. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2011</b> , 91, 693-707	1.8	12
44	Long-term effects of the transient COD concentration on the performance of microbial fuel cells. <i>Biotechnology Progress</i> , <b>2016</b> , 32, 883-90	2.8	12
43	Assessing the impact of design factors on the performance of two miniature microbial fuel cells. <i>Electrochimica Acta</i> , <b>2019</b> , 297, 297-306	6.7	12
42	Performance of microbial fuel cells operated under anoxic conditions. <i>Applied Energy</i> , <b>2019</b> , 250, 1-6	10.7	11
41	Effect of sludge age on microbial consortia developed in MFCs. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2018</b> , 93, 1290-1299	3.5	11
40	Electro-irradiated technologies for clopyralid removal from soil washing effluents. <i>Separation and Purification Technology</i> , <b>2019</b> , 227, 115728	8.3	11
39	New prototypes for the isolation of the anodic chambers in microbial fuel cells. <i>Fuel</i> , <b>2016</b> , 181, 704-710	7.1	11
38	On the staking of miniaturized air-breathing microbial fuel cells. <i>Applied Energy</i> , <b>2018</b> , 232, 1-8	10.7	11
37	Electro Fenton removal of clopyralid in soil washing effluents. <i>Chemosphere</i> , <b>2019</b> , 237, 124447	8.4	10

36	Influence of the Cathode Platinum Loading and of the Implementation of Membranes on the Performance of Air-Breathing Microbial Fuel Cells. <i>Electrocatalysis</i> , <b>2017</b> , 8, 442-449	2.7	10
35	Anaerobic co-digestion of winery wastewater. <i>Water Science and Technology</i> , <b>2007</b> , 56, 49-54	2.2	10
34	Heterotrophic Anodic Denitrification in Microbial Fuel Cells. <i>Sustainability</i> , <b>2016</b> , 8, 561	3.6	10
33	Reproducibility and robustness of microbial fuel cells technology. <i>Journal of Power Sources</i> , <b>2019</b> , 412, 640-647	8.9	10
32	Modelization of anaerobic processes during co-digestion of slowly biodegradable substrates. <i>Chemosphere</i> , <b>2020</b> , 250, 126222	8.4	9
31	ENERGY PRODUCTION FROM WASTEWATER USING HORIZONTAL AND VERTICAL SUBSURFACE FLOW CONSTRUCTED WETLANDS. <i>Environmental Engineering and Management Journal</i> , <b>2014</b> , 13, 2517-2523	2.6	9
30	Biodegradability improvement and toxicity reduction of soil washing effluents polluted with atrazine by means of electrochemical pre-treatment: Influence of the anode material. <i>Journal of Environmental Management</i> , <b>2020</b> , 255, 109895	7.9	9
29	Model based evaluation of plant improvement at a large wastewater treatment plant (WWTP). <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , <b>2018</b> , 53, 669-675	2.3	8
28	Dehalogenation of 2,4-Dichlorophenoxyacetic acid by means of bioelectrochemical systems. <i>Journal of Electroanalytical Chemistry</i> , <b>2019</b> , 854, 113564	4.1	8
27	Influence of the cleaning additives on the methane production from brewery effluents. <i>Chemical Engineering Journal</i> , <b>2013</b> , 215-216, 685-690	14.7	8
26	Effect of the Internal Recycles on the Phosphorus Removal Efficiency of a WWTP. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 7300-7307	3.9	8
25	New Trends in Substrates and Biogas Systems in Poland. <i>Journal of Ecological Engineering</i> , <b>2020</b> , 21, 19-25		8
24	Design of horizontal and vertical subsurface flow constructed wetlands treating industrial wastewater. <i>WIT Transactions on Ecology and the Environment</i> , <b>2008</b> ,	1	8
23	Modelization of Nutrient Removal Processes at a Large WWTP Using a Modified ASM2d Model. <i>International Journal of Environmental Research and Public Health</i> , <b>2018</b> , 15,	4.6	8
22	Advanced Lithium-Ion Battery Model for Power System Performance Analysis. <i>Energies</i> , <b>2020</b> , 13, 2411	3.1	7
21	Simulation of carbon degradation in a rotary drum pilot scale composting process. <i>Journal of Environmental Management</i> , <b>2012</b> , 108, 1-7	7.9	7
20	Removal of oxyfluorfen from polluted effluents by combined bio-electro processes. <i>Chemosphere</i> , <b>2020</b> , 240, 124912	8.4	6
19	Biofilm and planktonic population distribution. Key aspects in carbonaceous anodes for microbial fuel cells. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2018</b> , 93, 3436-3443	3.5	6

18	Selection of anodic material for the combined electrochemical-biological treatment of lindane polluted soil washing effluents. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 384, 121237	12.8	5
17	Microbial Fuel Cell: The Definitive Technological Approach for Valorizing Organic Wastes. <i>Handbook of Environmental Chemistry</i> , <b>2014</b> , 287-316	0.8	4
16	Optimization methodology based on neural networks and genetic algorithms applied to electro-coagulation processes. <i>Open Chemistry</i> , <b>2013</b> , 11, 1213-1224	1.6	4
15	Bio-electrocatalytic dechlorination of 2,4-dichlorophenol. Effect of pH and operational configuration. <i>Electrochimica Acta</i> , <b>2021</b> , 367, 137456	6.7	4
14	Anaerobic codigestion of biowastes generated in Castilla-La Mancha (Spain): batch studies. <i>WIT Transactions on Ecology and the Environment</i> , <b>2006</b> ,	1	3
13	Electrocatalytic dechlorination of 2,4-dichlorophenol in bioelectrochemical systems. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 876, 114731	4.1	3
12	The Influence of External Load on the Performance of Microbial Fuel Cells. <i>Energies</i> , <b>2021</b> , 14, 612	3.1	3
11	Kinetics of forced aerated biodegradation of digested sewage sludge-reed mixtures at different temperatures. <i>Journal of Environmental Management</i> , <b>2012</b> , 95 Suppl, S128-33	7.9	2
10	Hydraulic modelling of horizontal-subsurface flow constructed wetlands: Influence of operation time and plant species. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2011</b> , 91, 786-800	1.8	2
9	Bio-Energy Generation from Synthetic Winery Wastewaters. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 8360	2.6	2
8	Simulation of the number of storm overflows considering changes in precipitation dynamics and the urbanisation of the catchment area: A probabilistic approach. <i>Journal of Hydrology</i> , <b>2021</b> , 598, 126275	6	2
7	The Influent Effects of Flow Rate Profile on the Performance of Microbial Fuel Cells Model. <i>Energies</i> , <b>2020</b> , 13, 4735	3.1	1
6	Does environmental risk really change in abandoned mining areas in the medium term when no control measures are taken?. <i>Chemosphere</i> , <b>2021</b> , 291, 133129	8.4	1
5	Modelling of a bioelectrochemical system for metal-polluted wastewater treatment and sequential metal recovery. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2021</b> , 96, 2033-2041	3.5	1
4	Acid mine drainage treatment and sequential metal recovery by means of bioelectrochemical technology. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2021</b> , 96, 1543-1552	3.5	1
3	Biorefineries: An Overview on Bioethanol Production. <i>Handbook of Environmental Chemistry</i> , <b>2015</b> , 153-178		
2	Effect of organic nitrogen concentration on the efficiency of trickling filters. <i>E3S Web of Conferences</i> , <b>2018</b> , 30, 02007	0.5	
1	Modelling the cathodic reduction of 2,4-dichlorophenol in a microbial fuel cell.. <i>Bioprocess and Biosystems Engineering</i> , <b>2022</b> , 45, 771	3.7	

