

# JosÃ© Villaseñor Camacho

## List of Publications by Year in descending order

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102  
papers

3,314  
citations

136885

32  
h-index

168321

53  
g-index

103  
all docs

103  
docs citations

103  
times ranked

3424  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermogravimetricâ€“mass spectrometric analysis of lignocellulosic and marine biomass pyrolysis. <i>Bioresource Technology</i> , 2012, 109, 163-172.	4.8	332
2	Operation of a horizontal subsurface flow constructed wetland â€“ Microbial fuel cell treating wastewater under different organic loading rates. <i>Water Research</i> , 2013, 47, 6731-6738.	5.3	224
3	Subsurface-flow constructed wetlands in Spain for the sanitation of small communities: A comparative study. <i>Ecological Engineering</i> , 2007, 30, 312-319.	1.6	129
4	Composting domestic sewage sludge with natural zeolites in a rotary drum reactor. <i>Bioresource Technology</i> , 2011, 102, 1447-1454.	4.8	123
5	Electrokinetic remediation of soil polluted with insoluble organics using biological permeable reactive barriers: Effect of periodic polarity reversal and voltage gradient. <i>Chemical Engineering Journal</i> , 2016, 299, 30-36.	6.6	107
6	Domestic sewage sludge composting in a rotary drum reactor: Optimizing the thermophilic stage. <i>Journal of Environmental Management</i> , 2012, 112, 284-291.	3.8	106
7	Influence of pH, temperature and volatile fatty acids on hydrogen production by acidogenic fermentation. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 15595-15601.	3.8	96
8	Effect of the Current Intensity in the Electrochemical Oxidation of Aqueous Phenol Wastes at an Activated Carbon and Steel Anode. <i>Industrial &amp; Engineering Chemistry Research</i> , 1999, 38, 3779-3785.	1.8	86
9	Feasibility of anaerobic co-digestion as a treatment option of meat industry wastes. <i>Bioresource Technology</i> , 2009, 100, 1903-1909.	4.8	80
10	Biological permeable reactive barriers coupled with electrokinetic soil flushing for the treatment of diesel-polluted clay soil. <i>Journal of Hazardous Materials</i> , 2015, 283, 131-139.	6.5	74
11	Denitrification potential of industrial wastewaters. <i>Water Research</i> , 2005, 39, 3715-3726.	5.3	68
12	Combination of bioremediation and electrokinetics for the in-situ treatment of diesel polluted soil: A comparison of strategies. <i>Science of the Total Environment</i> , 2015, 533, 307-316.	3.9	60
13	Modelling aerobic biodegradation of atrazine and 2,4-dichlorophenoxy acetic acid by mixed-cultures. <i>Bioresource Technology</i> , 2017, 243, 1044-1050.	4.8	57
14	Effect of the polarity reversal frequency in the electrokinetic-biological remediation of oxyfluorfen polluted soil. <i>Chemosphere</i> , 2017, 177, 120-127.	4.2	53
15	Feasibility of composting combinations of sewage sludge, olive mill waste and winery waste in a rotary drum reactor. <i>Waste Management</i> , 2010, 30, 1948-1956.	3.7	49
16	Effect of electric field on the performance of soil electro-bioremediation with a periodic polarity reversal strategy. <i>Chemosphere</i> , 2016, 146, 300-307.	4.2	47
17	Effect of competition between petroleum-degrading bacteria and indigenous compost microorganisms on the efficiency of petroleum sludge bioremediation: Field application of mineral-based culture in the composting process. <i>Journal of Environmental Management</i> , 2020, 258, 110013.	3.8	46
18	Kinetic model and study of the influence of pH, temperature and undissociated acids on acidogenic fermentation. <i>Biochemical Engineering Journal</i> , 2012, 66, 66-72.	1.8	45

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19	Performance evaluation and simulation of a new absorbent for an absorption refrigeration system. <i>International Journal of Refrigeration</i> , 2004, 27, 324-330.	1.8	44
20	Kinetic and stoichiometric modelling of acidogenic fermentation of glucose and fructose. <i>Biomass and Bioenergy</i> , 2011, 35, 3877-3883.	2.9	43
21	Advanced oxidation processes for destruction of cyanide from thermoelectric power station waste waters. <i>Journal of Chemical Technology and Biotechnology</i> , 2004, 79, 117-125.	1.6	42
22	Operational Optimisation of Pilot Scale Biological Nutrient Removal at the Ciudad Real (Spain) Domestic Wastewater Treatment Plant. <i>Water, Air, and Soil Pollution</i> , 2004, 152, 279-296.	1.1	41
23	Feasibility Of Coupling Permeable Bio-Barriers And Electrokinetics For The Treatment Of Diesel Hydrocarbons Polluted Soils. <i>Electrochimica Acta</i> , 2015, 181, 192-199.	2.6	41
24	Enhancing the co-composting of olive mill wastes and sewage sludge by the addition of an industrial waste. <i>Bioresource Technology</i> , 2008, 99, 6346-6353.	4.8	39
25	Biodegradability of meat industry wastes under anaerobic and aerobic conditions. <i>Water Research</i> , 2008, 42, 3767-3774.	5.3	39
26	Effect of a direct electric current on the activity of a hydrocarbon-degrading microorganism culture used as the flushing liquid in soil remediation processes. <i>Separation and Purification Technology</i> , 2014, 124, 217-223.	3.9	38
27	A Comparative Study of Five Horizontal Subsurface Flow Constructed Wetlands using Different Plant Species for Domestic Wastewater Treatment. <i>Environmental Technology (United Kingdom)</i> , 2007, 28, 1333-1343.	1.2	37
28	Evaluation of carbon degradation during co-composting of exhausted grape marc with different biowastes. <i>Chemosphere</i> , 2008, 73, 670-677.	4.2	37
29	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> , 2010, 35, 10927-10933.	3.8	36
30	Removal of 2,4,6-Trichlorophenol from Spiked Clay Soils by Electrokinetic Soil Flushing Assisted with Granular Activated Carbon Permeable Reactive Barrier. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 840-846.	1.8	36
31	Influence of electric field on the remediation of polluted soil using a biobarrier assisted electro-bioremediation process. <i>Electrochimica Acta</i> , 2016, 190, 294-304.	2.6	36
32	Kinetics of biodegradation of diesel fuel by enriched microbial consortia from polluted soils. <i>International Journal of Environmental Science and Technology</i> , 2012, 9, 749-758.	1.8	34
33	Influence of industrial discharges on the performance and population of a biological nutrient removal process. <i>Biochemical Engineering Journal</i> , 2007, 34, 51-61.	1.8	33
34	Predicting the effects of biochar on volatile petroleum hydrocarbon biodegradation and emanation from soil: A bacterial community finger-print analysis inferred modelling approach. <i>Soil Biology and Biochemistry</i> , 2014, 68, 20-30.	4.2	33
35	Electro-bioremediation at the prototype scale: What it should be learned for the scale-up. <i>Chemical Engineering Journal</i> , 2018, 334, 2030-2038.	6.6	33
36	Fermentation of agro-food wastewaters by activated sludge. <i>Water Research</i> , 2007, 41, 1635-1644.	5.3	32

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37	Improving biodegradability of soil washing effluents using anodic oxidation. <i>Bioresource Technology</i> , 2018, 252, 1-6.	4.8	32
38	The salinity effects on the performance of a constructed wetland-microbial fuel cell. <i>Ecological Engineering</i> , 2017, 107, 1-7.	1.6	31
39	Feasibility of Different Bioremediation Strategies for Treatment of Clayey and Silty Soils Recently Polluted with Diesel Hydrocarbons. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 2473-2482.	1.1	30
40	Feasibility of electrokinetic oxygen supply for soil bioremediation purposes. <i>Chemosphere</i> , 2014, 117, 382-387.	4.2	29
41	Electro-osmotic fluxes in multi-well electro-remediation processes. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2011, 46, 1549-1557.	0.9	28
42	Agro-food wastewaters as external carbon source to enhance biological phosphorus removal. <i>Chemical Engineering Journal</i> , 2011, 166, 559-567.	6.6	26
43	Respiration indices and stability measurements of compost through electrolytic respirometry. <i>Journal of Environmental Management</i> , 2012, 95, S134-S138.	3.8	26
44	Biodegradation of heavy oily sludge by a two-step inoculation composting process using synergistic effect of indigenous isolated bacteria. <i>Process Biochemistry</i> , 2020, 91, 223-230.	1.8	26
45	Monitoring respiration and biological stability during sludge composting with a modified dynamic respirometer. <i>Bioresource Technology</i> , 2011, 102, 6562-6568.	4.8	25
46	Biodegradation kinetics of stored wastewater substrates by a mixed microbial culture. <i>Biochemical Engineering Journal</i> , 2005, 26, 191-197.	1.8	24
47	Performance of waste-based amendments to reduce metal release from mine tailings: One-year leaching behaviour. <i>Journal of Environmental Management</i> , 2018, 209, 1-8.	3.8	24
48	Bioremediation of petroleum hydrocarbons by vermicomposting process bioaugmented with indigenous bacterial consortium isolated from petroleum oily sludge. <i>Ecotoxicology and Environmental Safety</i> , 2020, 198, 110645.	2.9	24
49	Remediation of PCE contaminated clay soil by coupling electrokinetics with zero-valent iron permeable reactive barrier. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	23
50	Influence of soil texture on the electrokinetic transport of diesel-degrading microorganisms. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2011, 46, 914-919.	0.9	22
51	Electrokinetic transport of diesel-degrading microorganisms through soils of different textures using electric fields. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2012, 47, 274-279.	0.9	21
52	Strategies for the electrobioremediation of oxyfluorfen polluted soils. <i>Electrochimica Acta</i> , 2019, 297, 137-144.	2.6	21
53	Biological treatment of wastewater polluted with an oxyfluorfen-based commercial herbicide. <i>Chemosphere</i> , 2018, 213, 244-251.	4.2	20
54	The effect of petroleum hydrocarbons concentration on competition between oil-degrading bacteria and indigenous compost microorganisms in petroleum sludge bioremediation. <i>Environmental Technology and Innovation</i> , 2022, 26, 102319.	3.0	20

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55	Removal of nitrates from spiked clay soils by coupling electrokinetic and permeable reactive barrier technologies. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 1719-1726.	1.6	19
56	Kinetic modelling of a diesel-polluted clayey soil bioremediation process. <i>Science of the Total Environment</i> , 2016, 557-558, 276-284.	3.9	19
57	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> , 2020, 255, 109895.	3.8	17
58	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> , 2011, 91, 693-707.	1.8	14
59	Feasibility of mixed enzymatic complexes to enhanced soil bioremediation processes. <i>Procedia Environmental Sciences</i> , 2011, 9, 54-59.	1.3	14
60	Can electro-bioremediation of polluted soils perform as a self-sustainable process?. <i>Journal of Applied Electrochemistry</i> , 2018, 48, 579-588.	1.5	14
61	Electro-irradiated technologies for clopyralid removal from soil washing effluents. <i>Separation and Purification Technology</i> , 2019, 227, 115728.	3.9	14
62	Scaling up the electrokinetic-assisted phytoremediation of atrazine-polluted soils using reversal of electrode polarity: A mesocosm study. <i>Journal of Environmental Management</i> , 2020, 255, 109806.	3.8	14
63	ENERGY PRODUCTION FROM WASTEWATER USING HORIZONTAL AND VERTICAL SUBSURFACE FLOW CONSTRUCTED WETLANDS. <i>Environmental Engineering and Management Journal</i> , 2014, 13, 2517-2523.	0.2	14
64	Analysis of a photobioreactor scaling up for tertiary wastewater treatment: denitrification, phosphorus removal, and microalgae production. <i>Environmental Science and Pollution Research</i> , 2018, 25, 29279-29286.	2.7	13
65	Fixed-bed biological barrier coupled with electrokinetics for the <i>in situ</i> electrobioremediation of 2,4-dichlorophenoxyacetic acid polluted soil. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 2684-2692.	1.6	13
66	Dye removal of AR27 with enhanced degradation and power generation in a microbial fuel cell using bioanode of treated clinoptilolite-modified graphite felt. <i>Environmental Science and Pollution Research</i> , 2017, 24, 19444-19457.	2.7	12
67	Respirometric determination of the readily biodegradable cod produced in the anaerobic stage of a biological phosphorus removal process. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2000, 35, 49-64.	0.9	11
68	EDTA and hydrochloric acid effects on mercury accumulation by <i>Lupinus albus</i> . <i>Environmental Science and Pollution Research</i> , 2016, 23, 24739-24748.	2.7	11
69	Improvement of the electro-bioremediation process of a non-polar herbicide-polluted soil by means of surfactant addition. <i>Science of the Total Environment</i> , 2019, 650, 1961-1968.	3.9	11
70	Selection of anodic material for the combined electrochemical-biological treatment of lindane polluted soil washing effluents. <i>Journal of Hazardous Materials</i> , 2020, 384, 121237.	6.5	11
71	Biostimulation versus bioaugmentation for the electro-bioremediation of 2,4-dichlorophenoxyacetic acid polluted soils. <i>Journal of Environmental Management</i> , 2021, 277, 111424.	3.8	11
72	Acid mine drainage treatment and sequential metal recovery by means of bioelectrochemical technology. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 1543-1552.	1.6	11

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73	Dehalogenation of 2,4-Dichlorophenoxyacetic acid by means of bioelectrochemical systems. <i>Journal of Electroanalytical Chemistry</i> , 2019, 854, 113564.	1.9	10
74	Removal of oxyfluorfen from polluted effluents by combined bio-electro processes. <i>Chemosphere</i> , 2020, 240, 124912.	4.2	10
75	Anaerobic Uptake of Different Organic Substrates by an Enhanced Biological Phosphorus Removal Sludge. <i>Environmental Technology (United Kingdom)</i> , 2000, 21, 397-405.	1.2	9
76	Short-Term Effects of Wastewater Biodegradability on Biological Phosphorus Removal. <i>Journal of Environmental Engineering, ASCE</i> , 2001, 127, 259-265.	0.7	9
77	Effect of the Internal Recycles on the Phosphorus Removal Efficiency of a WWTP. <i>Industrial &amp; Engineering Chemistry Research</i> , 2007, 46, 7300-7307.	1.8	9
78	Influence of the cleaning additives on the methane production from brewery effluents. <i>Chemical Engineering Journal</i> , 2013, 215-216, 685-690.	6.6	9
79	Algal biomass as fuel for stacked $\mu$ MFCs for profitable, sustainable and carbon neutral bioenergy generation. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 287-293.	1.6	9
80	Electrobioremediation of Oxyfluorfen-Polluted Soil by Means of a Fixed-Bed Permeable Biological Barrier. <i>Water, Air, and Soil Pollution</i> , 2019, 230, 1.	1.1	9
81	Design of horizontal and vertical subsurface flow constructed wetlands treating industrial wastewater. <i>WIT Transactions on Ecology and the Environment</i> , 2008, , .	0.0	9
82	Influence of polyphenols on low-loaded synthetic winery wastewater constructed wetland treatment with different plant species A paper submitted to the <i>Journal of Environmental Engineering and Science</i> . <i>Canadian Journal of Civil Engineering</i> , 2009, 36, 690-700.	0.7	8
83	Electrocatalytic dechlorination of 2,4-dichlorophenol in bioelectrochemical systems. <i>Journal of Electroanalytical Chemistry</i> , 2020, 876, 114731.	1.9	8
84	Effective scale-up of oily sludge bioremediation from a culture-based medium to a two-phase composting system using an isolated hydrocarbon-degrading bacterium: effect of two-step bioaugmentation. <i>Journal of Material Cycles and Waste Management</i> , 2020, 22, 1475-1483.	1.6	8
85	Effect of Wastewater Composition on the Development of an Activated Sludge Biological Phosphorus Removal System. <i>Environmental Technology (United Kingdom)</i> , 1999, 20, 159-169.	1.2	7
86	Simulation of carbon degradation in a rotary drum pilot scale composting process. <i>Journal of Environmental Management</i> , 2012, 108, 1-7.	3.8	7
87	Thermally-treated algal suspensions as fuel for microbial fuel cells. <i>Journal of Electroanalytical Chemistry</i> , 2018, 814, 77-82.	1.9	6
88	Influence of hydraulic retention time and carbon loading rate on the production of algae. <i>Journal of Biotechnology</i> , 2018, 282, 70-79.	1.9	6
89	Bio-electrocatalytic dechlorination of 2,4-dichlorophenol. Effect of pH and operational configuration. <i>Electrochimica Acta</i> , 2021, 367, 137456.	2.6	6
90	Towards the optimization of electro-bioremediation of soil polluted with 2,4-dichlorophenoxyacetic acid. <i>Environmental Technology and Innovation</i> , 2020, 20, 101156.	3.0	3

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91	Modelling of a bioelectrochemical system for metal-polluted wastewater treatment and sequential metal recovery. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 2033-2041.	1.6	3
92	Anaerobic codigestion of biowastes generated in Castilla-La Mancha (Spain): batch studies. <i>WIT Transactions on Ecology and the Environment</i> , 2006, , .	0.0	3
93	Determination of Biodegradation Kinetics of Bacterial Storage Organic Substrates Through Electrolytic Respirometry. <i>Environmental Technology (United Kingdom)</i> , 2000, 21, 1111-1118.	1.2	2
94	Hydraulic modelling of horizontal-subsurface flow constructed wetlands: Influence of operation time and plant species. <i>International Journal of Environmental Analytical Chemistry</i> , 2011, 91, 786-800.	1.8	2
95	Kinetics of forced aerated biodegradation of digested sewage sludge-reed mixtures at different temperatures. <i>Journal of Environmental Management</i> , 2012, 95, S128-S133.	3.8	2
96	Prescale-Up of Electro-Bioremediation Processes. , 2016, , .		2
97	Volatile fatty acids production from winery wastewaters by acidogenic fermentation. <i>WIT Transactions on Ecology and the Environment</i> , 2008, , .	0.0	2
98	Electrokinetic Remediation of Soils Polluted with Pesticides: Flushing and Fence Technologies. , 2016, , .		1
99	Electrobioremediation of Polluted Soils. <i>Environmental Pollution</i> , 2021, , 297-313.	0.4	1
100	Effect of the start-up length on the biological nutrient removal process. <i>WIT Transactions on Ecology and the Environment</i> , 2008, , .	0.0	1
101	Modelling the cathodic reduction of 2,4-dichlorophenol in a microbial fuel cell. <i>Bioprocess and Biosystems Engineering</i> , 2022, 45, 771-782.	1.7	1
102	Squeezing wastes in a wastewater treatment plant. <i>WIT Transactions on Ecology and the Environment</i> , 2008, , .	0.0	0