

# Luis Isidoro Romero

## List of Publications by Year in descending order

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Version: 2024-02-01

81  
papers

3,193  
citations

126858

33  
h-index

161767

54  
g-index

81  
all docs

81  
docs citations

81  
times ranked

2647  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of the total concentration and the profile of volatile fatty acids on polyhydroxyalkanoates (PHA) production by mixed microbial cultures. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 239-253.	2.9	3
2	Successful and stable operation of anaerobic thermophilic co-digestion of sun-dried sugar beet pulp and cow manure under short hydraulic retention time. <i>Chemosphere</i> , 2022, 293, 133484.	4.2	14
3	Co-digestion of two-phase olive-mill waste and cattle manure: Influence of solids content on process performance. <i>Fuel</i> , 2022, 322, 124187.	3.4	5
4	Start-up of the mesophilic anaerobic co-digestion of two-phase olive-mill waste and cattle manure using volatile fatty acids as process control parameter. <i>Fuel</i> , 2022, 325, 124901.	3.4	11
5	Integral valorization of residual biomass: Hydrogen, polyhydroxyalkanoates, and compost production. , 2021, , 355-390.		0
6	Biogas, biohydrogen, and polyhydroxyalkanoates production from organic waste in the circular economy context. , 2021, , 305-343.		4
7	Thermally enhanced solubilization and anaerobic digestion of organic fraction of municipal solid waste. <i>Chemosphere</i> , 2021, 282, 131136.	4.2	25
8	Thermophilic Anaerobic Co-Digestion of Exhausted Sugar Beet Pulp with Cow Manure to Boost the Performance of the Process: The Effect of Manure Proportion. <i>Water (Switzerland)</i> , 2021, 13, 67.	1.2	5
9	Insights into Anaerobic Co-Digestion of Lignocellulosic Biomass (Sugar Beet By-Products) and Animal Manure in Long-Term Semi-Continuous Assays. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5126.	1.3	15
10	Editorial of the Special Issue "Anaerobic Co-Digestion of Lignocellulosic Wastes" <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7399.	1.3	0
11	Modelization of anaerobic processes during co-digestion of slowly biodegradable substrates. <i>Chemosphere</i> , 2020, 250, 126222.	4.2	9
12	Improvement of Anaerobic Digestion of Lignocellulosic Biomass by Hydrothermal Pretreatment. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3853.	1.3	46
13	Enhancement of Methane Production in Thermophilic Anaerobic Co-Digestion of Exhausted Sugar Beet Pulp and Pig Manure. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1791.	1.3	19
14	Mesophilic Anaerobic Co-digestion of Olive-Mill Waste With Cattle Manure: Effects of Mixture Ratio. <i>Frontiers in Sustainable Food Systems</i> , 2019, 3, .	1.8	10
15	Assessment of the Biodegradability and Ecotoxicity of a Nonylphenol Ethoxylate Surfactant in Littoral Waters. <i>International Journal of Environmental Science and Development</i> , 2019, 10, 130-136.	0.2	3
16	New criteria to determine the destabilization of the acidogenic anaerobic co-digestion of organic fraction of municipal solid waste (OFMSW) with mixed sludge (MS). <i>Bioresource Technology</i> , 2018, 248, 174-179.	4.8	22
17	Anaerobic co-digestion of organic fraction of municipal solid waste (OFMSW): Progress and challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 93, 380-399.	8.2	270
18	Effect of Temperature on Biohydrogen and Biomethane Productions by Anaerobic Digestion of Sugar Beet by-Products. <i>International Journal of Environmental Science and Development</i> , 2018, 8, 762-766.	0.2	1

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19	Influence of total solids concentration on the anaerobic co-digestion of sugar beet by-products and livestock manures. <i>Science of the Total Environment</i> , 2017, 586, 438-445.	3.9	35
20	Inhibition of the Hydrolytic Phase in the Production of Biohydrogen by Dark Fermentation of Organic Solid Waste. <i>Energy &amp; Fuels</i> , 2017, 31, 7176-7184.	2.5	19
21	Evaluation of methane generation and process stability from anaerobic co-digestion of sugar beet by-product and cow manure. <i>Journal of Bioscience and Bioengineering</i> , 2016, 121, 566-572.	1.1	27
22	Semicontinuous Temperature-Phased Anaerobic Digestion (TPAD) of Organic Fraction of Municipal Solid Waste (OFMSW). Comparison with single-stage processes. <i>Chemical Engineering Journal</i> , 2016, 285, 409-416.	6.6	52
23	Biomethanization of sugar beet byproduct by semi-continuous single digestion and co-digestion with cow manure. <i>Bioresource Technology</i> , 2016, 200, 311-319.	4.8	31
24	Improvement of Exhausted Sugar Beet Cosettes Anaerobic Digestion Process by Co-Digestion with Pig Manure. <i>Energy &amp; Fuels</i> , 2015, 29, 754-762.	2.5	20
25	Temperature-phased anaerobic digestion of Industrial Organic Fraction of Municipal Solid Waste: A batch study. <i>Chemical Engineering Journal</i> , 2015, 270, 597-604.	6.6	24
26	Thermophilic anaerobic co-digestion of organic fraction of municipal solid waste (OFMSW) with food waste (FW): Enhancement of bio-hydrogen production. <i>Bioresource Technology</i> , 2015, 194, 291-296.	4.8	74
27	Thermochemical Pretreatments of Organic Fraction of Municipal Solid Waste from a Mechanical-Biological Treatment Plant. <i>International Journal of Molecular Sciences</i> , 2015, 16, 3769-3782.	1.8	12
28	Semi-continuous anaerobic co-digestion of sugar beet byproduct and pig manure: Effect of the organic loading rate (OLR) on process performance. <i>Bioresource Technology</i> , 2015, 194, 283-290.	4.8	92
29	Biomethanization from sulfate-containing municipal solid waste: effect of molybdate on microbial consortium. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 1379-1387.	1.6	9
30	Sono-biostimulation of aerobic digestion: a novel approach for sludge minimization. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 1060-1066.	1.6	5
31	Dark fermentation from real solid waste. Evolution of microbial community. <i>Bioresource Technology</i> , 2014, 151, 221-226.	4.8	26
32	Enhancement in hydrogen production by thermophilic anaerobic co-digestion of organic fraction of municipal solid waste and sewage sludge – Optimization of treatment conditions. <i>Bioresource Technology</i> , 2014, 164, 408-415.	4.8	60
33	Dry thermophilic anaerobic digestion of the organic fraction of municipal solid wastes: Solid retention time optimization. <i>Chemical Engineering Journal</i> , 2014, 251, 435-440.	6.6	41
34	Comparison of mesophilic and thermophilic dry anaerobic digestion of OFMSW: Kinetic analysis. <i>Chemical Engineering Journal</i> , 2013, 232, 59-64.	6.6	100
35	Hydrogen production from the organic fraction of municipal solid waste in anaerobic thermophilic acidogenesis: Influence of organic loading rate and microbial content of the solid waste. <i>Bioresource Technology</i> , 2013, 129, 85-91.	4.8	63
36	Optimisation of the two-phase dry-thermophilic anaerobic digestion process of sulphate-containing municipal solid waste: Population dynamics. <i>Bioresource Technology</i> , 2013, 148, 443-452.	4.8	46

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37	Destabilization of an anaerobic reactor by wash-out episode: Effect on the biomethanization performance. <i>Chemical Engineering Journal</i> , 2013, 214, 247-252.	6.6	14
38	Optimisation of single-phase dry-thermophilic anaerobic digestion under high organic loading rates of industrial municipal solid waste: Population dynamics. <i>Bioresource Technology</i> , 2013, 146, 109-117.	4.8	35
39	Effect of HRT on hydrogen production and organic matter solubilization in acidogenic anaerobic digestion of OFMSW. <i>Chemical Engineering Journal</i> , 2013, 219, 443-449.	6.6	70
40	Bio-methanization of organic fraction from municipal solid waste: temperature effects. <i>Polish Journal of Chemical Technology</i> , 2013, 15, 99-106.	0.3	1
41	Dry-thermophilic anaerobic digestion of organic fraction of municipal solid waste: Methane production modeling. <i>Waste Management</i> , 2012, 32, 382-388.	3.7	36
42	New parameters to determine the optimum pretreatment for improving the biomethanization performance. <i>Chemical Engineering Journal</i> , 2012, 198-199, 81-86.	6.6	10
43	New Strategy for a Suitable Fast Stabilization of the Biomethanization Performance. <i>Archaea</i> , 2012, 2012, 1-7.	2.3	1
44	New indirect parameters for interpreting a destabilization episode in an anaerobic reactor. <i>Chemical Engineering Journal</i> , 2012, 180, 32-38.	6.6	31
45	Mesophilic anaerobic digestion of the organic fraction of municipal solid waste: Optimisation of the semicontinuous process. <i>Chemical Engineering Journal</i> , 2012, 193-194, 10-15.	6.6	36
46	The use of thermochemical and biological pretreatments to enhance organic matter hydrolysis and solubilization from organic fraction of municipal solid waste (OFMSW). <i>Chemical Engineering Journal</i> , 2011, 168, 249-254.	6.6	67
47	The effect of different pretreatments on biomethanation kinetics of industrial Organic Fraction of Municipal Solid Wastes (OFMSW). <i>Chemical Engineering Journal</i> , 2011, 171, 411-417.	6.6	39
48	Determination of critical and optimum conditions for biomethanization of OFMSW in a semi-continuous stirred tank reactor. <i>Chemical Engineering Journal</i> , 2011, 171, 418-424.	6.6	16
49	Biological pretreatment applied to industrial organic fraction of municipal solid wastes (OFMSW): Effect on anaerobic digestion. <i>Chemical Engineering Journal</i> , 2011, 172, 321-325.	6.6	42
50	Dry-thermophilic anaerobic digestion of simulated organic fraction of Municipal Solid Waste: Process modeling. <i>Bioresource Technology</i> , 2011, 102, 606-611.	4.8	32
51	Kinetics of mesophilic anaerobic digestion of the organic fraction of municipal solid waste: Influence of initial total solid concentration. <i>Bioresource Technology</i> , 2010, 101, 6322-6328.	4.8	88
52	Start-up of thermophilic "dry anaerobic digestion of OFMSW using adapted modified SEBAC inoculum. <i>Bioresource Technology</i> , 2010, 101, 9031-9039.	4.8	57
53	Effect of substrate concentration on dry mesophilic anaerobic digestion of organic fraction of municipal solid waste (OFMSW). <i>Bioresource Technology</i> , 2008, 99, 6075-6080.	4.8	176
54	Influence of total solid and inoculum contents on performance of anaerobic reactors treating food waste. <i>Bioresource Technology</i> , 2008, 99, 6994-7002.	4.8	230

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55	Thermophilic anaerobic digestion of source-sorted organic fraction of municipal solid waste. <i>Bioresource Technology</i> , 2008, 99, 6763-6770.	4.8	106
56	Anaerobic digestion of municipal solid wastes: Dry thermophilic performance. <i>Bioresource Technology</i> , 2008, 99, 8180-8184.	4.8	76
57	Dry-thermophilic anaerobic digestion of organic fraction of the municipal solid waste: Focusing on the inoculum sources. <i>Bioresource Technology</i> , 2007, 98, 3195-3203.	4.8	150
58	Composting potential of different inoculum sources in the modified SEBAC system treatment of municipal solid wastes. <i>Bioresource Technology</i> , 2007, 98, 3354-3366.	4.8	31
59	Performance of anaerobic thermophilic fluidized bed in the treatment of cutting-oil wastewater. <i>Bioresource Technology</i> , 2007, 98, 3456-3463.	4.8	46
60	Anaerobic thermophilic digestion of cutting oil wastewater: Effect of co-substrate. <i>Biochemical Engineering Journal</i> , 2006, 29, 250-257.	1.8	36
61	Effect of solids retention time (SRT) on pilot scale anaerobic thermophilic sludge digestion. <i>Process Biochemistry</i> , 2006, 41, 79-86.	1.8	116
62	Pilot-scale anaerobic thermophilic digester treating municipal sludge. <i>AIChE Journal</i> , 2006, 52, 402-407.	1.8	23
63	Municipal sludge degradation kinetic in thermophilic CSTR. <i>AIChE Journal</i> , 2006, 52, 4200-4206.	1.8	14
64	Temperature conversion (mesophilic to thermophilic) of municipal sludge digestion. <i>AIChE Journal</i> , 2005, 51, 2581-2586.	1.8	37
65	High rate anaerobic thermophilic technologies for distillery wastewater treatment. <i>Water Science and Technology</i> , 2005, 51, 191-198.	1.2	34
66	Effect of the pH influent conditions in fixed-film reactors for anaerobic thermophilic treatment of wine-distillery wastewater. <i>Water Science and Technology</i> , 2005, 51, 183-189.	1.2	44
67	Utilización de biorreactores avanzados en la degradación anaerobia de efluentes vnicos. <i>Ingeniera Del Agua</i> , 2002, 9, 51.	0.2	0
68	Kinetics of thermophilic anaerobes in fixed-bed reactors. <i>Chemosphere</i> , 2001, 44, 1201-1211.	4.2	14
69	Measurement of Microbial Numbers and Biomass Contained in Thermophilic Anaerobic Reactors. <i>Water Environment Research</i> , 2001, 73, 684-690.	1.3	3
70	Organic Matter Degradation Kinetics in an Anaerobic Thermophilic Fluidised Bed Bioreactor. <i>Anaerobe</i> , 2001, 7, 25-35.	1.0	53
71	Determination of the Microbial Population in Thermophilic Anaerobic Reactor: Comparative Analysis by Different Counting Methods. <i>Anaerobe</i> , 2001, 7, 79-86.	1.0	22
72	Title is missing!. <i>Biotechnology Letters</i> , 2001, 23, 1889-1892.	1.1	18

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73	Anaerobic thermophilic fluidized bed treatment of industrial wastewater: Effect of F:M relationship. Chemosphere, 1999, 38, 3443-3461.	4.2	20
74	Biodegradation kinetics of surfactants in seawater. Chemosphere, 1999, 39, 1957-1969.	4.2	33
75	Influencia de las paradas estacionales sobre la biomasa inmovilizada en reactores anaerobios. IngenierÃa Del Agua, 1999, 6, 345.	0.2	2
76	Comparative performance of high rate anaerobic thermophilic technologies treating industrial wastewater. Water Research, 1998, 32, 559-564.	5.3	50
77	TecnologÃas anaerobias para la depuraciÃn termofÃlica de vertidos de destilerÃas vÃnicas. IngenierÃa Del Agua, 1997, 4, 7.	0.2	1
78	Thermophilic Anaerobic Degradation of Distillery Wastewater in Continuous-Flow Fluidized Bed Bioreactors. Biotechnology Progress, 1997, 13, 33-38.	1.3	28
79	Colonisation of a porous sintered-glass support in anaerobic thermophilic bioreactors. Bioresource Technology, 1997, 59, 177-183.	4.8	23
80	Methanogenic and acidogenic activity test in an anaerobic thermophilic reactor. Biotechnology Letters, 1996, 10, 249.	0.5	5
81	Effect of the Feed Frequency on the Performance of Anaerobic Filters. Anaerobe, 1995, 1, 113-120.	1.0	29