Luis Isidoro Romero

List of Publications by Year
in descending order

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	Anaerobic co-digestion of organic fraction of municipal solid waste (OFMSW): Progress and challenges. Renewable and Sustainable Energy Reviews, 2018, 93, 380-399.	8.2	270
2	Influence of total solid and inoculum contents on performance of anaerobic reactors treating food waste. Bioresource Technology, 2008, 99, 6994-7002.	4.8	230
3	Effect of substrate concentration on dry mesophilic anaerobic digestion of organic fraction of municipal solid waste (OFMSW). Bioresource Technology, 2008, 99, 6075-6080.	4.8	176
4	Dry-thermophilic anaerobic digestion of organic fraction of the municipal solid waste: Focusing on the inoculum sources. Bioresource Technology, 2007, 98, 3195-3203.	4.8	150
5	Effect of solids retention time (SRT) on pilot scale anaerobic thermophilic sludge digestion. Process Biochemistry, 2006, 41, 79-86.	1.8	116
6	Thermophilic anaerobic digestion of source-sorted organic fraction of municipal solid waste. Bioresource Technology, 2008, 99, 6763-6770.	4.8	106
7	Comparison of mesophilic and thermophilic dry anaerobic digestion of OFMSW: Kinetic analysis. Chemical Engineering Journal, 2013, 232, 59-64.	6.6	100
8	Semi-continuous anaerobic co-digestion of sugar beet byproduct and pig manure: Effect of the organic loading rate (OLR) on process performance. Bioresource Technology, 2015, 194, 283-290.	4.8	92
9	Kinetics of mesophilic anaerobic digestion of the organic fraction of municipal solid waste: Influence of initial total solid concentration. Bioresource Technology, 2010, 101, 6322-6328.	4.8	88
10	Anaerobic digestion of municipal solid wastes: Dry thermophilic performance. Bioresource Technology, 2008, 99, 8180-8184.	4.8	76
11	Thermophilic anaerobic co-digestion of organic fraction of municipal solid waste (OFMSW) with food waste (FW): Enhancement of bio-hydrogen production. Bioresource Technology, 2015, 194, 291-296.	4.8	74
12	Effect of HRT on hydrogen production and organic matter solubilization in acidogenic anaerobic digestion of OFMSW. Chemical Engineering Journal, 2013, 219, 443-449.	6.6	70
13	The use of thermochemical and biological pretreatments to enhance organic matter hydrolysis and solubilization from organic fraction of municipal solid waste (OFMSW). Chemical Engineering Journal, 2011, 168, 249-254.	6.6	67
14	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. Bioresource Technology, 2013, 129, 85-91.	4.8	63
15	Enhancement in hydrogen production by thermophilic anaerobic co-digestion of organic fraction of municipal solid waste and sewage sludge â€“ Optimization of treatment conditions. Bioresource Technology, 2014, 164, 408-415.	4.8	60
16	Start-up of thermophilicâ€“dry anaerobic digestion of OFMSW using adapted modified SEBAC inoculum. Bioresource Technology, 2010, 101, 9031-9039.	4.8	57
17	Organic Matter Degradation Kinetics in an Anaerobic Thermophilic Fluidised Bed Bioreactor. Anaerobe, 2001, 7, 25-35.	1.0	53
18	Semicontinuous Temperature-Phased Anaerobic Digestion (TPAD) of Organic Fraction of Municipal Solid Waste (OFMSW). Comparison with single-stage processes. Chemical Engineering Journal, 2016, 285, 409-416.	6.6	52

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19	Comparative performance of high rate anaerobic thermophilic technologies treating industrial wastewater. Water Research, 1998, 32, 559-564.	5.3	50
20	Performance of anaerobic thermophilic fluidized bed in the treatment of cutting-oil wastewater. Bioresource Technology, 2007, 98, 3456-3463.	4.8	46
21	Optimisation of the two-phase dry-thermophilic anaerobic digestion process of sulphate-containing municipal solid waste: Population dynamics. Bioresource Technology, 2013, 148, 443-452.	4.8	46
22	Improvement of Anaerobic Digestion of Lignocellulosic Biomass by Hydrothermal Pretreatment. Applied Sciences (Switzerland), 2019, 9, 3853.	1.3	46
23	Effect of the pH influent conditions in fixed-film reactors for anaerobic thermophilic treatment of wine-distillery wastewater. Water Science and Technology, 2005, 51, 183-189.	1.2	44
24	Biological pretreatment applied to industrial organic fraction of municipal solid wastes (OFMSW): Effect on anaerobic digestion. Chemical Engineering Journal, 2011, 172, 321-325.	6.6	42
25	Dry thermophilic anaerobic digestion of the organic fraction of municipal solid wastes: Solid retention time optimization. Chemical Engineering Journal, 2014, 251, 435-440.	6.6	41
26	The effect of different pretreatments on biomethanation kinetics of industrial Organic Fraction of Municipal Solid Wastes (OFMSW). Chemical Engineering Journal, 2011, 171, 411-417.	6.6	39
27	Temperature conversion (mesophilic to thermophilic) of municipal sludge digestion. AICHE Journal, 2005, 51, 2581-2586.	1.8	37
28	Anaerobic thermophilic digestion of cutting oil wastewater: Effect of co-substrate. Biochemical Engineering Journal, 2006, 29, 250-257.	1.8	36
29	Dry-thermophilic anaerobic digestion of organic fraction of municipal solid waste: Methane production modeling. Waste Management, 2012, 32, 382-388.	3.7	36
30	Mesophilic anaerobic digestion of the organic fraction of municipal solid waste: Optimisation of the semicontinuous process. Chemical Engineering Journal, 2012, 193-194, 10-15.	6.6	36
31	Optimisation of single-phase dry-thermophilic anaerobic digestion under high organic loading rates of industrial municipal solid waste: Population dynamics. Bioresource Technology, 2013, 146, 109-117.	4.8	35
32	Influence of total solids concentration on the anaerobic co-digestion of sugar beet by-products and livestock manures. Science of the Total Environment, 2017, 586, 438-445.	3.9	35
33	High rate anaerobic thermophilic technologies for distillery wastewater treatment. Water Science and Technology, 2005, 51, 191-198.	1.2	34
34	Biodegradation kinetics of surfactants in seawater. Chemosphere, 1999, 39, 1957-1969.	4.2	33
35	Dry-thermophilic anaerobic digestion of simulated organic fraction of Municipal Solid Waste: Process modeling. Bioresource Technology, 2011, 102, 606-611.	4.8	32
36	Composting potential of different inoculum sources in the modified SEBAC system treatment of municipal solid wastes. Bioresource Technology, 2007, 98, 3354-3366.	4.8	31

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37	New indirect parameters for interpreting a destabilization episode in an anaerobic reactor. Chemical Engineering Journal, 2012, 180, 32-38.	6.6	31
38	Biomethanization of sugar beet byproduct by semi-continuous single digestion and co-digestion with cow manure. Bioresource Technology, 2016, 200, 311-319.	4.8	31
39	Effect of the Feed Frequency on the Performance of Anaerobic Filters. Anaerobe, 1995, 1, 113-120.	1.0	29
40	Thermophilic Anaerobic Degradation of Distillery Wastewater in Continuous-Flow Fluidized Bed Bioreactors. Biotechnology Progress, 1997, 13, 33-38.	1.3	28
41	Evaluation of methane generation and process stability from anaerobic co-digestion of sugar beet by-product and cow manure. Journal of Bioscience and Bioengineering, 2016, 121, 566-572.	1.1	27
42	Dark fermentation from real solid waste. Evolution of microbial community. Bioresource Technology, 2014, 151, 221-226.	4.8	26
43	Thermally enhanced solubilization and anaerobic digestion of organic fraction of municipal solid waste. Chemosphere, 2021, 282, 131136.	4.2	25
44	Temperature-phased anaerobic digestion of Industrial Organic Fraction of Municipal Solid Waste: A batch study. Chemical Engineering Journal, 2015, 270, 597-604.	6.6	24
45	Colonisation of a porous sintered-glass support in anaerobic thermophilic bioreactors. Bioresource Technology, 1997, 59, 177-183.	4.8	23
46	Pilot-scale anaerobic thermophilic digester treating municipal sludge. AICHE Journal, 2006, 52, 402-407.	1.8	23
47	Determination of the Microbial Population in Thermophilic Anaerobic Reactor: Comparative Analysis by Different Counting Methods. Anaerobe, 2001, 7, 79-86.	1.0	22
48	New criteria to determine the destabilization of the acidogenic anaerobic co-digestion of organic fraction of municipal solid waste (OFMSW) with mixed sludge (MS). Bioresource Technology, 2018, 248, 174-179.	4.8	22
49	Anaerobic thermophilic fluidized bed treatment of industrial wastewater: Effect of F:M relationship. Chemosphere, 1999, 38, 3443-3461.	4.2	20
50	Improvement of Exhausted Sugar Beet Cossettes Anaerobic Digestion Process by Co-Digestion with Pig Manure. Energy & Fuels, 2015, 29, 754-762.	2.5	20
51	Inhibition of the Hydrolytic Phase in the Production of Biohydrogen by Dark Fermentation of Organic Solid Waste. Energy & Fuels, 2017, 31, 7176-7184.	2.5	19
52	Enhancement of Methane Production in Thermophilic Anaerobic Co-Digestion of Exhausted Sugar Beet Pulp and Pig Manure. Applied Sciences (Switzerland), 2019, 9, 1791.	1.3	19
53	Title is missing!. Biotechnology Letters, 2001, 23, 1889-1892.	1.1	18
54	Determination of critical and optimum conditions for biomethanization of OFMSW in a semi-continuous stirred tank reactor. Chemical Engineering Journal, 2011, 171, 418-424.	6.6	16

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55	Insights into Anaerobic Co-Digestion of Lignocellulosic Biomass (Sugar Beet By-Products) and Animal Manure in Long-Term Semi-Continuous Assays. Applied Sciences (Switzerland), 2020, 10, 5126.	1.3	15
56	Kinetics of thermophilic anaerobes in fixed-bed reactors. Chemosphere, 2001, 44, 1201-1211.	4.2	14
57	Municipal sludge degradation kinetic in thermophilic CSTR. AICHE Journal, 2006, 52, 4200-4206.	1.8	14
58	Destabilization of an anaerobic reactor by wash-out episode: Effect on the biomethanization performance. Chemical Engineering Journal, 2013, 214, 247-252.	6.6	14
59	Successful and stable operation of anaerobic thermophilic co-digestion of sun-dried sugar beet pulp and cow manure under short hydraulic retention time. Chemosphere, 2022, 293, 133484.	4.2	14
60	Thermochemical Pretreatments of Organic Fraction of Municipal Solid Waste from a Mechanical-Biological Treatment Plant. International Journal of Molecular Sciences, 2015, 16, 3769-3782.	1.8	12
61	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. Fuel, 2022, 325, 124901.	3.4	11
62	New parameters to determine the optimum pretreatment for improving the biomethanization performance. Chemical Engineering Journal, 2012, 198-199, 81-86.	6.6	10
63	Mesophilic Anaerobic Co-digestion of Olive-Mill Waste With Cattle Manure: Effects of Mixture Ratio. Frontiers in Sustainable Food Systems, 2019, 3, .	1.8	10
64	Biomethanization from sulfateâ€containing municipal solid waste: effect of molybdate on microbial consortium. Journal of Chemical Technology and Biotechnology, 2014, 89, 1379-1387.	1.6	9
65	Modelization of anaerobic processes during co-digestion of slowly biodegradable substrates. Chemosphere, 2020, 250, 126222.	4.2	9
66	Methanogenic and acidogenic activity test in an anaerobic thermophilic reactor. Biotechnology Letters, 1996, 10, 249.	0.5	5
67	Sono-biostimulation of aerobic digestion: a novel approach for sludge minimization. Journal of Chemical Technology and Biotechnology, 2014, 89, 1060-1066.	1.6	5
68	Thermophilic Anaerobic Co-Digestion of Exhausted Sugar Beet Pulp with Cow Manure to Boost the Performance of the Process: The Effect of Manure Proportion. Water (Switzerland), 2021, 13, 67.	1.2	5
69	Co-digestion of two-phase olive-mill waste and cattle manure: Influence of solids content on process performance. Fuel, 2022, 322, 124187.	3.4	5
70	Biogas, biohydrogen, and polyhydroxyalkanoates production from organic waste in the circular economy context. , 2021, , 305-343.		4
71	Measurement of Microbial Numbers and Biomass Contained in Thermophilic Anaerobic Reactors. Water Environment Research, 2001, 73, 684-690.	1.3	3
72	Assessment of the Biodegradability and Ecotoxicty of a Nonylphenol Ethoxylate Surfactant in Littoral Waters. International Journal of Environmental Science and Development, 2019, 10, 130-136.	0.2	3

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73	Influence of the total concentration and the profile of volatile fatty acids on polyhydroxyalkanoates (PHA) production by mixed microbial cultures. Biomass Conversion and Biorefinery, 2024, 14, 239-253.	2.9	3
74	Influencia de las paradas estacionales sobre la biomasa inmovilizada en reactores anaerobios. IngenierÃa Del Agua, 1999, 6, 345.	0.2	2
75	TecnologÃas anaerobias para la depuraciÃ³n termofÃlica de vertidos de destilerÃas vÃnicas. IngenierÃa Del Agua, 1997, 4, 7.	0.2	1
76	New Strategy for a Suitable Fast Stabilization of the Biomethanization Performance. Archaea, 2012, 2012, 1-7.	2.3	1
77	Bio-methanization of organic fraction from municipal solid waste: temperature effects. Polish Journal of Chemical Technology, 2013, 15, 99-106.	0.3	1
78	Effect of Temperature on Biohydrogen and Biomethane Productions by Anaerobic Digestion of Sugar Beet by-Products. International Journal of Environmental Science and Development, 2018, 8, 762-766.	0.2	1
79	Editorial of the Special Issue â€œAnaerobic Co-Digestion of Lignocellulosic Wastesâ€. Applied Sciences (Switzerland), 2020, 10, 7399.	1.3	0
80	Integral valorization of residual biomass: Hydrogen, polyhydroxyalkanoates, and compost production. , 2021, , 355-390.		0
81	UtilizaciÃ³n de biorreactores avanzados en la degradaciÃ³n anaerobia de efluentes vÃnicos. IngenierÃa Del Agua, 2002, 9, 51.	0.2	0