Rafael Borja

List of Publications by Year
in descending order

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273 papers	10,148 citations	28274 55 h-index	51608 86 g-index
276 all docs	276 docs citations	276 times ranked	7933 citing authors

#	Article	IF	Citations
1	Biochemical methane potential (BMP) of solid organic substrates: evaluation of anaerobic biodegradability using data from an international interlaboratory study. Journal of Chemical Technology and Biotechnology, 2011, 86, 1088-1098.	3.2	411
2	Anaerobic digestion of solid organic substrates in batch mode: An overview relating to methane yields and experimental procedures. Renewable and Sustainable Energy Reviews, 2012, 16, 861-877.	16.4	390
3	Use of the water quality index and dissolved oxygen deficit as simple indicators of watersheds pollution. Ecological Indicators, 2007, 7, 315-328.	6.3	376
4	Influence of inoculum to substrate ratio on the biochemical methane potential of maize in batch tests. Process Biochemistry, 2006, 41, 1444-1450.	3.7	232
5	Application of natural zeolites in anaerobic digestion processes: A review. Applied Clay Science, 2012, 58, 125-133.	5.2	202
6	Influence of organic loading rate and hydraulic retention time on the performance, stability and microbial communities of one-stage anaerobic digestion of two-phase olive mill solid residue. Biochemical Engineering Journal, 2008, 40, 253-261.	3.6	194
7	Influence of inoculumâ€“substrate ratio on the anaerobic digestion of sunflower oil cake in batch mode: Process stability and kinetic evaluation. Chemical Engineering Journal, 2009, 149, 70-77.	12.7	178
8	Heavy Metal Removal by Microalgae. Bulletin of Environmental Contamination and Toxicology, 1999, 62, 144-151.	2.7	148
9	Methylene blue number as useful indicator to evaluate the adsorptive capacity of granular activated carbon in batch mode: Influence of adsorbate/adsorbent mass ratio and particle size. Journal of Hazardous Materials, 2009, 165, 291-299.	12.4	141
10	Influence of different aerobic pretreatments on the kinetics of anaerobic digestion of olive mill wastewater. Water Research, 1995, 29, 489-495.	11.3	124
11	Aerobic biodegradation and detoxification of wastewaters from the olive oil industry. International Biodeterioration and Biodegradation, 2003, 51, 37-41.	3.9	124
12	Effect of organic loading rate on the stability, operational parameters and performance of a secondary upflow anaerobic sludge bed reactor treating piggery waste. Bioresource Technology, 2005, 96, 335-344.	9.6	123
13	Anaerobic treatment of palm oil mill effluent in a two-stage up-flow anaerobic sludge blanket (UASB) system. Journal of Biotechnology, 1996, 45, 125-135.	3.8	120
14	Assessment of a modified and optimised method for determining chemical oxygen demand of solid substrates and solutions with high suspended solid content. Talanta, 2008, 76, 448-453.	5.5	120
15	Enhancement of the anaerobic digestion of olive mill wastewater by the removal of phenolic inhibitors. Process Biochemistry, 1992, 27, 231-237.	3.7	118
16	Valuable Compound Extraction, Anaerobic Digestion, and Composting: A Leading Biorefinery Approach for Agricultural Wastes. Journal of Agricultural and Food Chemistry, 2018, 66, 8451-8468.	5.2	115
17	Influence of ammonia concentration on thermophilic anaerobic digestion of cattle manure in upflow anaerobic sludge blanket (UASB) reactors. Process Biochemistry, 1996, 31, 477-483.	3.7	111
18	Influence of different natural zeolite concentrations on the anaerobic digestion of piggery waste. Bioresource Technology, 2001, 80, 37-43.	9.6	111

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19	Evaluation of the hydrolyticâ€“acidogenic step of a two-stage mesophilic anaerobic digestion process of sunflower oil cake. Bioresource Technology, 2009, 100, 4133-4138.	9.6	108
20	Impact of the main phenolic compounds of olive mill wastewater (OMW) on the kinetics of acetoclastic methanogenesis. Process Biochemistry, 1997, 32, 121-133.	3.7	107
21	Aerobicâ€“anaerobic biodegradation of beet molasses alcoholic fermentation wastewater. Process Biochemistry, 2003, 38, 1275-1284.	3.7	107
22	Batch mixed culture of Chlorella vulgaris using settled and diluted piggery waste. Ecological Engineering, 2006, 28, 158-165.	3.6	99
23	A helical tubular photobioreactor producing Spirulina in a semicontinuous mode. International Biodeterioration and Biodegradation, 2001, 47, 151-155.	3.9	98
24	Competitive removal of heavy metal ions from squid oil under isothermal condition by CR11 chelate ion exchanger. Journal of Hazardous Materials, 2017, 334, 256-266.	12.4	98
25	Application of zeolites for biological treatment processes of solid wastes and wastewaters â€“ A review. Bioresource Technology, 2020, 301, 122808.	9.6	93
26	Effect of hydrothermal pretreatment of sunflower oil cake on biomethane potential focusing on fibre composition. Bioresource Technology, 2012, 123, 424-429.	9.6	88
27	Effect of substrate concentration and temperature on the anaerobic digestion of piggery waste in a tropical climate. Process Biochemistry, 2001, 37, 483-489.	3.7	85
28	Real evidence about zeolite as microorganisms immobilizer in anaerobic fluidized bed reactors. Process Biochemistry, 2007, 42, 721-728.	3.7	82
29	Anaerobic digestion of palm oil mill effluent using an up-flow anaerobic sludge blanket reactor. Biomass and Bioenergy, 1994, 6, 381-389.	5.7	81
30	A study of anaerobic digestibility of two-phases olive mill solid waste (OMSW) at mesophilic temperature. Process Biochemistry, 2002, 38, 733-742.	3.7	80
31	Treatment technologies of liquid and solid wastes from two-phase olive oil mills. Grasas Y Aceites, 2006, 57, .	0.9	77
32	Performance and microbial communities of a continuous stirred tank anaerobic reactor treating two-phases olive mill solid wastes at low organic loading rates. Journal of Biotechnology, 2006, 121, 534-543.	3.8	76
33	Enhancement of the anaerobic digestion of wine distillery wastewater by the removal of phenolic inhibitors. Bioresource Technology, 1993, 45, 99-104.	9.6	75
34	Ammonia removal from anaerobically treated piggery manure by ion exchange in columns packed with homoionic zeolite. Chemical Engineering Journal, 1997, 66, 65-71.	12.7	74
35	Effect of temperature and pH on the kinetics of methane production, organic nitrogen and phosphorus removal in the batch anaerobic digestion process of cattle manure. Bioprocess and Biosystems Engineering, 2000, 22, 0247-0252.	3.4	74
36	Heavy metals removal from acid mine drainage water using biogenic hydrogen sulphide and effluent from anaerobic treatment: Effect of pH. Journal of Hazardous Materials, 2009, 165, 759-765.	12.4	74

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37	Kinetics of phosphorus removal and struvite formation by the utilization of by-product of magnesium oxide production. Chemical Engineering Journal, 2005, 111, 45-52.	12.7	73
38	Response of an anaerobic fluidized bed reactor treating ice-cream wastewater to organic, hydraulic, temperature and pH shocks. Journal of Biotechnology, 1995, 39, 251-259.	3.8	72
39	Mesophilic anaerobic co-digestion of the organic fraction of municipal solid waste with the liquid fraction from hydrothermal carbonization of sewage sludge. Waste Management, 2018, 76, 315-322.	7.4	72
40	Comparison of an Anaerobic Filter and an Anaerobic Fluidized Bed Reactor Treating Palm Oil Mill Effluent. Process Biochemistry, 1995, 30, 511-521.	3.7	71
41	Effect of particle size and doses of zeolite addition on anaerobic digestion processes of synthetic and piggery wastes. Process Biochemistry, 2005, 40, 1475-1481.	3.7	68
42	Preliminary trials of in situ ammonia stripping from source segregated domestic food waste digestate using biogas: Effect of temperature and flow rate. Bioresource Technology, 2010, 101, 9486-9492.	9.6	67
43	Assessment of two-phase olive mill solid waste and microalgae co-digestion to improve methane production and process kinetics. Bioresource Technology, 2014, 157, 263-269.	9.6	67
44	Biochemical methane potential of two-phase olive mill solid waste: Influence of thermal pretreatment on the process kinetics. Bioresource Technology, 2013, 140, 249-255.	9.6	65
45	Kinetics of methane production from olive mill wastewater. Process Biochemistry, 1991, 26, 101-107.	3.7	64
46	BIOALGA reactor: preliminary studies for heavy metals removal. Biochemical Engineering Journal, 2002, 12, 87-91.	3.6	64
47	Influence of particle size and chemical composition on the performance and kinetics of anaerobic digestion process of sunflower oil cake in batch mode. Biochemical Engineering Journal, 2011, 58-59, 162-167.	3.6	63
48	Performance evaluation of an anaerobic fluidized bed reactor with natural zeolite as support material when treating high-strength distillery wastewater. Renewable Energy, 2008, 33, 2458-2466.	8.9	62
49	Assessment of process control parameters in the biochemical methane potential of sunflower oil cake. Biomass and Bioenergy, 2008, 32, 1235-1244.	5.7	62
50	Kinetics of mesophilic anaerobic digestion of the two-phase olive mill solid waste. Biochemical Engineering Journal, 2003, 15, 139-145.	3.6	61
51	Effect of the organic loading rate on the performance of anaerobic acidogenic fermentation of two-phase olive mill solid residue. Waste Management, 2008, 28, 870-877.	7.4	60
52	Thermophilic anaerobic digestion of sewage sludge: focus on the influence of the start-up. A review. Critical Reviews in Biotechnology, 2013, 33, 448-460.	9.0	60
53	Influence of immobilization supports on the kinetic constants of anaerobic purification of olive mill wastewater. Biological Wastes, 1990, 33, 131-142.	0.2	58
54	Olive mill solid waste biorefinery: High-temperature thermal pre-treatment for phenol recovery and biomethanization. Journal of Cleaner Production, 2017, 148, 314-323.	9.3	58

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55	Treatment of palm oil mill effluent by upflow anaerobic filtration. Journal of Chemical Technology and Biotechnology, 1994, 61, 103-109.	3.2	57
56	Anaerobic co-digestion of lipid-spent microalgae with waste activated sludge and glycerol in batch mode. International Biodeterioration and Biodegradation, 2015, 100, 85-88.	3.9	56
57	A kinetic study of anaerobic digestion of olive mill wastewater at mesophilic and thermophilic temperatures. Environmental Pollution, 1995, 88, 13-18.	7.5	55
58	The Effects of the Most Important Phenolic Constituents of Olive Mill Wastewater on Batch Anaerobic Methanogenesis. Environmental Technology (United Kingdom), 1996, 17, 167-174.	2.2	55
59	Mesophilic anaerobic digestion in a fluidised-bed reactor of wastewater from the production of protein isolates from chickpea flour. Process Biochemistry, 2004, 39, 1913-1921.	3.7	55
60	Kinetic modelling of the hydrolysis, acidogenic and methanogenic steps in the anaerobic digestion of two-phase olive pomace (TPOP). Process Biochemistry, 2005, 40, 1841-1847.	3.7	55
61	Anaerobic digestion of slaughterhouse wastewater using a combination sludge blanket and filter arrangement in a single reactor. Bioresource Technology, 1998, 65, 125-133.	9.6	54
62	Evaluation of municipal wastewater treatment plants with different technologies at Las Rozas, Madrid (Spain). Journal of Environmental Management, 2006, 81, 399-404.	7.8	54
63	Anaerobic biodegradation of two-phase olive mill solid wastes and liquid effluents: kinetic studies and process performance. Journal of Chemical Technology and Biotechnology, 2006, 81, 1450-1462.	3.2	54
64	Removal of phosphorus through struvite precipitation using a by-product of magnesium oxide production (BMP): Effect of the mode of BMP preparation. Chemical Engineering Journal, 2008, 136, 204-209.	12.7	54
65	Kinetic study of the anaerobic digestion of vinasse pretreated with ozone, ozone plus ultraviolet light, and ozone plus ultraviolet light in the presence of titanium dioxide. Process Biochemistry, 2002, 37, 699-706.	3.7	53
66	A comparative kinetic evaluation of the anaerobic digestion of untreated molasses and molasses previously fermented with Penicillium decumbens in batch reactors. Biochemical Engineering Journal, 2004, 18, 121-132.	3.6	53
67	Comparative effect of different aerobic pretreatments on the kinetics and macroenergetic parameters of anaerobic digestion of olive mill wastewater in continuous mode. Bioprocess and Biosystems Engineering, 1998, 18, 127.	0.5	51
68	Performance and kinetic evaluation of the anaerobic digestion of two-phase olive mill effluents in reactors with suspended and immobilized biomass. Water Research, 2004, 38, 2017-2026.	11.3	49
69	Evaluation of the methanogenic step of a two-stage anaerobic digestion process of acidified olive mill solid residue from a previous hydrolyticâ€“acidogenic step. Waste Management, 2009, 29, 2566-2573.	7.4	48
70	Effect of organic loading rate on anaerobic treatment of slaughterhouse wastewater in a fluidised-bed reactor. Bioresource Technology, 1995, 52, 157-162.	9.6	46
71	Anaerobic treatment of synthetic medium-strength wastewater using a multistage biofilm reactor. Bioresource Technology, 2009, 100, 1740-1745.	9.6	46
72	Effect of natural and modified zeolite addition on anaerobic digestion of piggery waste. Water Science and Technology, 2003, 48, 263-269.	2.5	44

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73	Kinetic analysis of the anaerobic digestion of untreated vinasses and vinasses previously treated with Penicillium decumbens. Journal of Environmental Management, 2006, 80, 303-310.	7.8	43
74	Advances in the biological removal of sulphides from aqueous phase in anaerobic processes: A review. Environmental Reviews, 2016, 24, 84-100.	4.5	43
75	Kinetic study of anaerobic digestion of wine distillery wastewater. Process Biochemistry, 1993, 28, 83-90.	3.7	42
76	Piggery waste treatment by anaerobic digestion and nutrient removal by ionic exchange. Resources, Conservation and Recycling, 1995, 15, 235-244.	10.8	42
77	Anaerobic digestion of wash waters derived from the purification of virgin olive oil using a hybrid reactor combining a filter and a sludge blanket. Process Biochemistry, 1996, 31, 219-224.	3.7	41
78	Study and optimisation of the anaerobic acidogenic fermentation of two-phase olive pomace. Process Biochemistry, 2005, 40, 281-291.	3.7	40
79	Treatment of screened dairy manure by upflow anaerobic fixed bed reactors packed with waste tyre rubber and a combination of waste tyre rubber and zeolite: Effect of the hydraulic retention time. Bioresource Technology, 2008, 99, 7412-7417.	9.6	39
80	Influence of organic volumetric loading rate, nutrient balance and alkalinity: COD ratio on the anaerobic sludge granulation of an UASB reactor treating sugar cane molasses. International Biodeterioration and Biodegradation, 1998, 41, 127-131.	3.9	38
81	Performance evaluation of a mesophilic anaerobic fluidized-bed reactor treating wastewater derived from the production of proteins from extracted sunflower flour. Bioresource Technology, 2001, 76, 45-52.	9.6	38
82	Kinetic study of an anaerobic fluidized bed system used for the purification of fermented olive mill wastewater. Journal of Chemical Technology and Biotechnology, 1993, 56, 155-162.	3.2	37
83	A study of the natural biodegradation of two-phase olive mill solid waste during its storage in an evaporation pond. Waste Management, 2006, 26, 477-486.	7.4	36
84	Kinetic study of anaerobic digestion of olive mill wastewater previously fermented with Aspergillus terreus. Process Biochemistry, 1993, 28, 397-404.	3.7	34
85	First international comparative study of volatile fatty acids in aqueous samples by chromatographic techniques: Evaluating sources of error. TrAC - Trends in Analytical Chemistry, 2013, 51, 127-143.	11.4	34
86	Predictive regression models for biochemical methane potential tests of biomass samples: Pitfalls and challenges of laboratory measurements. Renewable and Sustainable Energy Reviews, 2020, 127, 109890.	16.4	34
87	Anaerobic digestion of black-olive wastewater. Bioresource Technology, 1993, 45, 27-32.	9.6	33
88	Removal of copper from industrial wastewater by raw charcoal obtained from reeds. Journal of Chemical Technology and Biotechnology, 1995, 64, 153-156.	3.2	33
89	Performance of a hybrid anaerobic reactor, combining a sludge blanket and a filter, treating slaughterhouse wastewater. Applied Microbiology and Biotechnology, 1995, 43, 351-357.	3.6	33
90	Batch anaerobic co-digestion of waste activated sludge and microalgae (Chlorella sorokiniana) at mesophilic temperature. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2016, 51, 847-850.	1.7	33

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91	Use of solid residue from thermal power plant (fly ash) for enhancing sewage sludge anaerobic digestion: Influence of fly ash particle size. Bioresource Technology, 2017, 244, 416-422.	9.6	33
92	Performance evaluation and substrate removal kinetics in the semi-continuous anaerobic digestion of thermally pretreated two-phase olive pomace or â€œAlperujoâ€• Chemical Engineering Research and Design, 2017, 105, 288-296.	5.6	33
93	Thermodynamic properties of water + normal alcohols and vapor-liquid equilibria for binary systems of methanol or 2-propanol with water. Fluid Phase Equilibria, 1997, 127, 181-190.	2.5	32
94	Low-strength wastewater treatment by a multistage anaerobic filter packed with waste tyre rubber. Bioresource Technology, 1999, 70, 55-60.	9.6	32
95	Coliform concentration reduction and related performance evaluation of a down-flow anaerobic fixed bed reactor treating low-strength saline wastewater. Bioresource Technology, 2004, 94, 119-127.	9.6	32
96	Use of natural zeolite at different doses and dosage procedures in batch and continuous anaerobic digestion of synthetic and swine wastes. Resources, Conservation and Recycling, 2006, 47, 26-41.	10.8	32
97	Impact of ultrasonic pretreatment under different operational conditions on the mesophilic anaerobic digestion of sunflower oil cake in batch mode. Ultrasonics Sonochemistry, 2012, 19, 1003-1010.	8.2	32
98	Influence of a steam-explosion pre-treatment on the methane yield and kinetics of anaerobic digestion of two-phase olive mil solid waste or alperujo. Chemical Engineering Research and Design, 2016, 102, 361-369.	5.6	31
99	Treatment of piggery waste by anaerobic fixed bed reactor and zeolite bed filter in a tropical climate: a pilot scale study. Process Biochemistry, 2002, 38, 405-409.	3.7	29
100	ASSESSMENT OF A MICROALGAE POND FOR POSTâ€TREATMENT OF THE EFFLUENT FROM AN ANAEROBIC FIXED BED REACTOR TREATING DISTILLERY WASTEWATER. Environmental Technology (United Kingdom), 2008, 29, 985-992.	2.2	29
101	Assessment of a UASB reactor with high ammonia concentrations: Effect of zeolite addition on process performance. Process Biochemistry, 2014, 49, 2220-2227.	3.7	29
102	Biomethanization of olive mill solid waste after phenols recovery through low-temperature thermal pre-treatment. Waste Management, 2017, 61, 229-235.	7.4	29
103	Increase in biogas production in anaerobic sludge digestion by combining aerobic hydrolysis and addition of metallic wastes. Renewable Energy, 2018, 123, 541-548.	8.9	29
104	Thermally-treated strawberry extrudate: A rich source of antioxidant phenols and sugars. Innovative Food Science and Emerging Technologies, 2019, 51, 186-193.	5.6	29
105	Comparative study of anaerobic digestion of olive mill wastewater (OMW) and OMW previously fermented with Aspergillus terreus. Bioprocess and Biosystems Engineering, 1995, 13, 317-322.	0.5	28
106	Effect of the clay mineral zeolite on ammonia inhibition of anaerobic thermophilic reactors treating cattle manure. Journal of Environmental Science and Health Part A: Environmental Science and Engineering, 1996, 31, 479-500.	0.1	28
107	Anaerobic Digestion of Wastewater Derived from the Pressing of Orange Peel Generated in Orange Juice Production. Journal of Agricultural and Food Chemistry, 2007, 55, 1905-1914.	5.2	28
108	Kinetic modelling and performance prediction of a hybrid anaerobic baffled reactor treating synthetic wastewater at mesophilic temperature. Process Biochemistry, 2010, 45, 1616-1623.	3.7	28

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109	The impact of ammonia nitrogen concentration and zeolite addition on the specific methanogenic activity of granular and flocculent anaerobic sludges. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2010, 45, 883-889.	1.7	28
110	Effect of cobalt supplementation and fractionation on the biological response in the biomethanization of Olive Mill Solid Waste. Bioresource Technology, 2016, 211, 58-64.	9.6	28
111	Kinetic Analysis of the Psychrophilic Anaerobic Digestion of Wastewater Derived from the Production of Proteins from Extracted Sunflower Flour. Journal of Agricultural and Food Chemistry, 2002, 50, 4628-4633.	5.2	27
112	Assessment of kinetic parameters for the mesophilic anaerobic biodegradation of two-phase olive pomace. International Biodeterioration and Biodegradation, 2004, 53, 71-78.	3.9	27
113	Effect of influent substrate concentration and hydraulic retention time on the performance of down-flow anaerobic fixed bed reactors treating piggery wastewater in a tropical climate. Process Biochemistry, 2005, 40, 817-829.	3.7	27
114	Mathematical modelling of aerobic degradation of vinasses with Penicillium decumbens. Process Biochemistry, 2005, 40, 2805-2811.	3.7	26
115	Kinetic modelling of the anaerobic digestion of wastewater derived from the pressing of orange rind produced in orange juice manufacturing. Chemical Engineering Journal, 2008, 140, 145-156.	12.7	26
116	Phenols recovery after steam explosion of Olive Mill Solid Waste and its influence on a subsequent biomethanization process. Bioresource Technology, 2017, 243, 169-178.	9.6	26
117	Kinetics of methane production from palm oil mill effluent in an immobilised cell bioreactor using saponite as support medium. Bioresource Technology, 1994, 48, 209-214.	9.6	25
118	Nitrogen and phosphorus removal using a novel integrated system of natural zeolite and lime. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2011, 46, 1385-1391.	1.7	25
119	Harmonization of the quantitative determination of volatile fatty acids profile in aqueous matrix samples by direct injection using gas chromatography and high-performance liquid chromatography techniques: Multi-laboratory validation study. Journal of Chromatography A, 2015, 1413, 94-106.	3.7	25
120	Anaerobic co-digestion of olive mill solid waste and microalga Scenedesmus quadricauda: effect of different carbon to nitrogen ratios on process performance and kinetics. Journal of Applied Phycology, 2019, 31, 3583-3591.	2.8	25
121	Influence of phenols and furans released during thermal pretreatment of olive mill solid waste on its anaerobic digestion. Waste Management, 2021, 120, 202-208.	7.4	25
122	Kinetics of black-olive wastewater treatment by the activated-sludge system. Process Biochemistry, 1994, 29, 587-593.	3.7	24
123	Kinetics for Substrate Utilization and Methane Production during the Mesophilic Anaerobic Digestion of Two Phases Olive Pomace (TPOP). Journal of Agricultural and Food Chemistry, 2003, 51, 3390-3395.	5.2	24
124	Quality improvement in determination of chemical oxygen demand in samples considered difficult to analyze, through participation in proficiency-testing schemes. TrAC - Trends in Analytical Chemistry, 2010, 29, 1082-1091.	11.4	24
125	Extraction of phenolic compounds and production of biomethane from strawberry and raspberry extrudates. Biochemical Engineering Journal, 2019, 147, 11-19.	3.6	24
126	Comparison of anaerobic filter and anaerobic contact process for olive mill wastewater previously fermented with Geotrichum candidum. Process Biochemistry, 1994, 29, 139-144.	3.7	23

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127	Kinetics of an upflow anaerobic sludge blanket reactor treating iceâ€cream wastewater. Environmental Technology (United Kingdom), 1994, 15, 219-232.	2.2	23
128	THE REMOVAL OF BACTERIA BY MODIFIED NATURAL ZEOLITES. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2001, 36, 1073-1087.	1.7	23
129	Effect of organic loading rate on the anaerobic digestion of swine waste with biochar addition. Environmental Science and Pollution Research, 2021, 28, 38455-38465.	5.3	23
130	Influencia de la velocidad de carga orgÃ¡nica sobre el proceso de digestiÃ³n anaerobia de aguas de lavado de aceitunas de almazara en reactores de lecho fluidizado. Grasas Y Aceites, 1998, 49, 42-49.	0.9	23
131	Kinetic model for substrate utilization and methane production during the anaerobic digestion of olive mill wastewater and condensation water waste. Journal of Chemical Technology and Biotechnology, 1994, 60, 7-16.	3.2	22
132	The effect of organic loading rate on the anaerobic digestion of two-phase olive mill solid residue derived from fruits with low ripening index. Journal of Chemical Technology and Biotechnology, 2007, 82, 259-266.	3.2	22
133	Performance evaluation of mesophilic semi-continuous anaerobic digestion of high-temperature thermally pre-treated olive mill solid waste. Waste Management, 2019, 87, 250-257.	7.4	22
134	An interlaboratory study as useful tool for proficiency testing of chemical oxygen demand measurements using solid substrates and liquid samples with high suspended solid content. Talanta, 2009, 80, 329-337.	5.5	21
135	Kinetic evaluation of the psychrophylic anaerobic digestion of synthetic domestic sewage using an upflow filter. Bioresource Technology, 2010, 101, 131-137.	9.6	21
136	Influence of heavy metal supplementation on specific methanogenic activity and microbial communities detected in batch anaerobic digesters. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2010, 45, 1307-1314.	1.7	21
137	Microbial community dynamics in the two-stage anaerobic digestion process of two-phase olive mill residue. International Journal of Environmental Science and Technology, 2013, 10, 635-644.	3.5	21
138	Influence of the cell wall of Chlamydomonas reinhardtii on anaerobic digestion yield and on its anaerobic co-digestion with a carbon-rich substrate. Chemical Engineering Research and Design, 2019, 128, 167-175.	5.6	21
139	Determination of the kinetic constants of anaerobic digestion of sugar-mill-mud waste (SMMW). Bioresource Technology, 1996, 56, 245-249.	9.6	20
140	Production of Biomass (Algae-Bacteria) by Using a Mixture of Settled Swine and Sewage as Substrate. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2006, 41, 415-429.	1.7	20
141	Kinetic evaluation and performance of pilot-scale fed-batch aerated lagoons treating winery wastewaters. Bioresource Technology, 2010, 101, 3452-3456.	9.6	20
142	Influence of the support on the kinetics of anaerobic purification of slaughterhouse wastewater. Bioresource Technology, 1993, 44, 57-60.	9.6	19
143	Kinetic behaviour of waste tyre rubber as microorganism support in an anaerobic digester treating cane molasses distillery slops. Bioprocess and Biosystems Engineering, 1996, 16, 17.	0.5	19
144	Kinetics of anaerobic degradation of screened dairy manure by upflow fixed bed digesters: Effect of natural zeolite addition. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2009, 44, 146-154.	1.7	19

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145	Simultaneous nitrificationâ€“denitrification of wastewater: effect of zeolite as a support in sequential batch reactor with step-feed strategy. International Journal of Environmental Science and Technology, 2016, 13, 2325-2338.	3.5	19
146	Influence of the microorganism support on the kinetics of anaerobic fermentation of condensation water from thermally concentrated olive mill wastewater. Biodegradation, 1992, 3, 93.	3.0	18
147	Kinetic study of anaerobic digestion of brewery wastewater. Process Biochemistry, 1994, 29, 645-650.	3.7	18
148	A pilot-scale study of total volatile fatty acids production by anaerobic fermentation of sewage in fixed-bed and suspended biomass reactors. Process Biochemistry, 2004, 39, 1257-1267.	3.7	18
149	Start-up and performance of UASB reactors using zeolite for improvement of nitrate removal process. Ecological Engineering, 2014, 70, 437-445.	3.6	18
150	Deep bed filtration of anaerobic cattle manure effluents with natural zeolite. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 1999, 34, 305-332.	1.5	17
151	Batch mesophilic anaerobic co-digestion of spent goat batch mesophilic anaerobic co-digestion of spent goat straw bedding and goat cheese whey: Comparison with the mono-digestion of the two sole substrates. Journal of Environmental Management, 2021, 280, 111733.	7.8	17
152	Effect of ionic exchanger addition on the anaerobic digestion of cow manure. Environmental Technology (United Kingdom), 1993, 14, 891-896.	2.2	16
153	Kinetics of anaerobic digestion of soft drink wastewater in immobilized cell bioreactors. Journal of Chemical Technology and Biotechnology, 1994, 60, 327-334.	3.2	16
154	Influence of Aerobic Pretreatment withPenicillium decumbens on the Anaerobic Digestion of Beet Molasses Alcoholic Fermentation Wastewater in Suspended and Immobilized Cell Bioreactors. Journal of Chemical Technology and Biotechnology, 1997, 69, 193-202.	3.2	16
155	Biogas Production. , 2011, , 785-798.		16
156	Evaluation of natural zeolite as microorganism support medium in nitrifying batch reactors: Influence of zeolite particle size. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2012, 47, 420-427.	1.7	16
157	The effect of biogas sparging on cow manure characteristics and its subsequent anaerobic biodegradation. International Biodeterioration and Biodegradation, 2013, 83, 10-16.	3.9	16
158	Enhancing methane production from the invasive macroalga Rugulopteryx okamurae through anaerobic co-digestion with olive mill solid waste: process performance and kinetic analysis. Journal of Applied Phycology, 2021, 33, 4113-4124.	2.8	16
159	Semicontinuous anaerobic digestion of soft drink wastewater in immobilised cell bioreactors. Biotechnology Letters, 1993, 15, 767-772.	2.2	15
160	Anaerobic digestion of palm oil mill effluent and condensation water waste: an overall kinetic model for methane production and substrate utilization. Bioprocess and Biosystems Engineering, 1995, 13, 87-95.	0.5	15
161	Kinetic evaluation of an anaerobic fluidised-bed reactor treating slaughterhouse wastewater. Bioresource Technology, 1995, 52, 163-167.	9.6	15
162	Effects of chemical and thermochemical pretreatments on sunflower oil cake inÂbiochemical methane potential assays. Journal of Chemical Technology and Biotechnology, 2013, 88, 924-929.	3.2	15

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