

Lorenzo Bertin

List of Publications by Year in descending order

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61
papers

2,347
citations

126858

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214721

47
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62
all docs

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docs citations

62
times ranked

3078
citing authors

#	ARTICLE	IF	CITATIONS
1	PHB into PHB: Recycling of polyhydroxybutyrate by a tandem α -thermolytic distillation-microbial fermentation process. Resources, Conservation and Recycling, 2022, 178, 106082.	5.3	18
2	Upgrading grape pomace contained ethanol into hexanoic acid, fuel additives and a sticky polyhydroxyalkanoate: an effective alternative to ethanol distillation. Green Chemistry, 2022, 24, 2882-2892.	4.6	10
3	The role of biotechnology in the transition from plastics to bioplastics: an opportunity to reconnect global growth with sustainability. FEBS Open Bio, 2021, 11, 967-983.	1.0	35
4	Improved recovery of carboxylic acids using sequential cationic-anionic adsorption steps: A highly competitive ion-equilibrium model. Separation and Purification Technology, 2021, 261, 118253.	3.9	5
5	Intensification of methane production from waste frying oil in a biogas-lift bioreactor. Renewable Energy, 2021, 168, 1141-1148.	4.3	14
6	Conventional purification and isolation. , 2021, , 129-153.		0
7	Containment of a genetically modified microorganism by an activated sludge system. New Biotechnology, 2020, 55, 58-64.	2.4	5
8	Reactive extraction for in-situ carboxylate recovery from mixed culture fermentation. Biochemical Engineering Journal, 2020, 160, 107641.	1.8	16
9	Conversion of waste cooking oil into biogas: perspectives and limits. Applied Microbiology and Biotechnology, 2020, 104, 2833-2856.	1.7	36
10	Concentrate management for integrated MBR-RO process for wastewater reclamation and reuse-preliminary tests. Journal of Water Process Engineering, 2019, 29, 100455.	2.6	13
11	Cheese whey integrated valorisation: Production, concentration and exploitation of carboxylic acids for the production of polyhydroxyalkanoates by a fed-batch culture. Chemical Engineering Journal, 2018, 336, 47-53.	6.6	78
12	Effect of pressure on desalination of MBR effluents with high salinity by using NF and RO processes for reuse in irrigation. Journal of Water Process Engineering, 2018, 25, 22-27.	2.6	16
13	The use of membrane based reactive extraction for the recovery of carboxylic acids from thin stillage. Separation and Purification Technology, 2018, 206, 177-185.	3.9	14
14	Effect of Operational Parameters in the Continuous Anaerobic Fermentation of Cheese Whey on Titters, Yields, Productivities, and Microbial Community Structures. ACS Sustainable Chemistry and Engineering, 2017, 5, 1400-1407.	3.2	55
15	High impact biowastes from South European agro-industries as feedstock for second-generation biorefineries. Critical Reviews in Biotechnology, 2016, 36, 175-189.	5.1	49
16	Multipurpose, Integrated 2nd Generation Biorefineries. BioMed Research International, 2016, 2016, 1-2.	0.9	2
17	Batch and Continuous Flow Adsorption of Phenolic Compounds from Olive Mill Wastewater: A Comparison between Nonionic and Ion Exchange Resins. International Journal of Chemical Engineering, 2016, 2016, 1-13.	1.4	46
18	Enhanced substrate degradation and methane yield with maleic acid pre-treatments in biomass crops and residues. Biomass and Bioenergy, 2016, 85, 306-312.	2.9	10

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19	Volatile fatty acids recovery from the effluent of an acidogenic digestion process fed with grape pomace by adsorption on ion exchange resins. <i>Chemical Engineering Journal</i> , 2016, 306, 629-639.	6.6	73
20	Hydraulic retention time effects on wastewater nutrient removal and bioproduct production via rotating algal biofilm reactor. <i>Bioresource Technology</i> , 2016, 211, 527-533.	4.8	57
21	Recovery of VFAs from anaerobic digestion of dephenolized Olive Mill Wastewaters by Electrodialysis. <i>Separation and Purification Technology</i> , 2016, 159, 81-91.	3.9	69
22	Towards multi-purpose biorefinery platforms for the valorisation of red grape pomace: production of polyphenols, volatile fatty acids, polyhydroxyalkanoates and biogas. <i>Green Chemistry</i> , 2016, 18, 261-270.	4.6	110
23	Olive mill wastewater valorisation through phenolic compounds adsorption in a continuous flow column. <i>Chemical Engineering Journal</i> , 2016, 283, 293-303.	6.6	84
24	Conventional purification and isolation. , 2015, , 149-172.		3
25	Production of polyhydroxyalkanoates from dephenolised and fermented olive mill wastewaters by employing a pure culture of <i>Cupriavidus necator</i> . <i>Biochemical Engineering Journal</i> , 2015, 97, 92-100.	1.8	42
26	Uncoupled hydrogen and volatile fatty acids generation in a two-step biotechnological anaerobic process fed with actual site wastewater. <i>New Biotechnology</i> , 2015, 32, 341-346.	2.4	8
27	Acclimation to hypoxia in <i>Chlamydomonas reinhardtii</i> : can biophotolysis be the major trigger for long-term H ₂ production?. <i>New Phytologist</i> , 2014, 204, 890-900.	3.5	31
28	Mild alkaline pre-treatments loosen fibre structure enhancing methane production from biomass crops and residues. <i>Biomass and Bioenergy</i> , 2014, 71, 318-329.	2.9	44
29	Potential biovalorization techniques for olive mill biorefinery wastewater. <i>Biofuels, Bioproducts and Biorefining</i> , 2014, 8, 283-293.	1.9	58
30	Recovery of amorphous polyhydroxybutyrate granules from <i>Cupriavidus necator</i> cells grown on used cooking oil. <i>International Journal of Biological Macromolecules</i> , 2014, 71, 117-123.	3.6	62
31	Biodegradation of low-ethoxylated nonylphenols in a bioreactor packed with a new ceramic support (Vukopor Å® S10). <i>Environmental Science and Pollution Research</i> , 2014, 21, 3241-3253.	2.7	1
32	Anaerobic digestion of annual and multi-annual biomass crops. <i>Industrial Crops and Products</i> , 2014, 56, 137-144.	2.5	45
33	Effect of the organic loading rate on the production of polyhydroxyalkanoates in a multi-stage process aimed at the valorization of olive oil mill wastewater. <i>International Journal of Biological Macromolecules</i> , 2014, 71, 34-41.	3.6	56
34	Effect of hydraulic retention time on biohydrogen and volatile fatty acids production during acidogenic digestion of dephenolized olive mill wastewaters. <i>Biomass and Bioenergy</i> , 2013, 48, 51-58.	2.9	64
35	Innovative two-stage anaerobic process for effective codigestion of cheese whey and cattle manure. <i>Bioresource Technology</i> , 2013, 128, 779-783.	4.8	51
36	A continuous-flow approach for the development of an anaerobic consortium capable of an effective biomethanization of a mechanically sorted organic fraction of municipal solid waste as the sole substrate. <i>Water Research</i> , 2012, 46, 413-424.	5.3	12

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37	Inhibition of photosystem 2 in starch-enriched <i>Chlamydomonas reinhardtii</i> cells prevents the efficient induction of H ₂ production in sulfur-depleted cultures. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 10604-10610.	3.8	5
38	Increasing the large scale feasibility of a solid phase extraction procedure for the recovery of natural antioxidants from olive mill wastewaters. <i>Chemical Engineering Journal</i> , 2012, 198-199, 103-109.	6.6	37
39	Selective extraction and purification of gallic acid from actual site olive mill wastewaters by means of molecularly imprinted microparticles. <i>Chemical Engineering Journal</i> , 2012, 198-199, 529-535.	6.6	35
40	Biohydrogen production from glucose, molasses and cheese whey by suspended and attached cells of four hyperthermophilic <i>Thermotoga</i> strains. <i>Journal of Chemical Technology and Biotechnology</i> , 2012, 87, 1291-1301.	1.6	43
41	Acclimation of an anaerobic consortium capable of effective biomethanization of mechanically sorted organic fraction of municipal solid waste through a semi-continuous enrichment procedure. <i>Journal of Chemical Technology and Biotechnology</i> , 2012, 87, 1312-1319.	1.6	34
42	Development of a biofilm technology for the production of 1,3-propanediol (1,3-PDO) from crude glycerol. <i>Biochemical Engineering Journal</i> , 2012, 64, 84-90.	1.8	55
43	A physicochemical-biotechnological approach for an integrated valorization of olive mill wastewater. <i>Bioresource Technology</i> , 2011, 102, 10273-10279.	4.8	71
44	Recovery of low molecular weight phenols through solid-phase extraction. <i>Chemical Engineering Journal</i> , 2011, 166, 994-1001.	6.6	68
45	Recovery of high added value natural polyphenols from actual olive mill wastewater through solid phase extraction. <i>Chemical Engineering Journal</i> , 2011, 171, 1287-1293.	6.6	130
46	Biotransformation of a highly chlorinated PCB mixture in an activated sludge collected from a Membrane Biological Reactor (MBR) subjected to anaerobic digestion. <i>Journal of Hazardous Materials</i> , 2011, 186, 2060-2067.	6.5	21
47	Anaerobic acidogenic digestion of olive mill wastewaters in biofilm reactors packed with ceramic filters or granular activated carbon. <i>Water Research</i> , 2010, 44, 4537-4549.	5.3	75
48	Nonylphenol polyethoxylate degradation in aqueous waste by the use of batch and continuous biofilm bioreactors. <i>Water Research</i> , 2009, 43, 2977-2988.	5.3	27
49	Anaerobic codigestion of the mechanically sorted organic fraction of a municipal solid waste with cattle manure in packed microcosms under batch conditions. <i>Water Science and Technology</i> , 2008, 58, 1735-1742.	1.2	5
50	Microbial processes associated to the decontamination and detoxification of a polluted activated sludge during its anaerobic stabilization. <i>Water Research</i> , 2007, 41, 2407-2416.	5.3	34
51	Biodegradation of Polyethoxylated Nonylphenols in Packed-Bed Biofilm Reactors. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 6681-6687.	1.8	18
52	Performances and microbial features of an aerobic packed-bed biofilm reactor developed to post-treat an olive mill effluent from an anaerobic GAC reactor. <i>Microbial Cell Factories</i> , 2006, 5, 16.	1.9	12
53	Polychlorinated biphenyl degradation in aqueous wastes by employing continuous fixed-bed bioreactors. <i>Process Biochemistry</i> , 2006, 41, 935-940.	1.8	11
54	Removal of organic xenobiotics in activated sludges under aerobic conditions and anaerobic digestion of the adsorbed species. <i>Journal of Chemical Technology and Biotechnology</i> , 2006, 81, 1496-1505.	1.6	46

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55	Performances and microbial features of a granular activated carbon packed-bed biofilm reactor capable of an efficient anaerobic digestion of olive mill wastewaters. <i>FEMS Microbiology Ecology</i> , 2004, 48, 413-423.	1.3	40
56	Anaerobic digestion of olive mill wastewaters in biofilm reactors packed with granular activated carbon and "Manville" silica beads. <i>Water Research</i> , 2004, 38, 3167-3178.	5.3	57
57	Methyl- β -cyclodextrin-enhanced solubilization and aerobic biodegradation of polychlorinated biphenyls in two aged-contaminated soils. <i>Biotechnology and Bioengineering</i> , 2003, 81, 381-390.	1.7	81
58	An aerobic fixed-phase biofilm reactor system for the degradation of the low-molecular weight aromatic compounds occurring in the effluents of anaerobic digestors treating olive mill wastewaters. <i>Journal of Biotechnology</i> , 2001, 87, 161-177.	1.9	32
59	Biodegradation of hydroxylated and methoxylated benzoic, phenylacetic and phenylpropenoic acids present in olive mill wastewaters by two bacterial strains. <i>Research in Microbiology</i> , 2001, 152, 83-93.	1.0	43
60	Biodegradation of synthetic and naturally occurring mixtures of mono-cyclic aromatic compounds present in olive mill wastewaters by two aerobic bacteria. <i>Applied Microbiology and Biotechnology</i> , 2001, 55, 619-626.	1.7	35
61	Use of exogenous specialised bacteria in the biological detoxification of a dump site-polychlorobiphenyl-contaminated soil in slurry phase conditions. <i>Biotechnology and Bioengineering</i> , 1999, 64, 240-249.	1.7	39