Lorenzo Bertin

List of Publications by Year
in descending order

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61 papers	2,347 citations	126858 33 h-index	214721 47 g-index
62 all docs	62 docs citations	62 times ranked	3078 citing authors

#	Article	IF	Citations
1	Recovery of high added value natural polyphenols from actual olive mill wastewater through solid phase extraction. Chemical Engineering Journal, 2011, 171, 1287-1293.	6.6	130
2	Towards multi-purpose biorefinery platforms for the valorisation of red grape pomace: production of polyphenols, volatile fatty acids, polyhydroxyalkanoates and biogas. Green Chemistry, 2016, 18, 261-270.	4.6	110
3	Olive mill wastewater valorisation through phenolic compounds adsorption in a continuous flow column. Chemical Engineering Journal, 2016, 283, 293-303.	6.6	84
4	Methyl-?-cyclodextrin-enhanced solubilization and aerobic biodegradation of polychlorinated biphenyls in two aged-contaminated soils. Biotechnology and Bioengineering, 2003, 81, 381-390.	1.7	81
5	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
6	Anaerobic acidogenic digestion of olive mill wastewaters in biofilm reactors packed with ceramic filters or granular activated carbon. Water Research, 2010, 44, 4537-4549.	5.3	75
7	Volatile fatty acids recovery from the effluent of an acidogenic digestion process fed with grape pomace by adsorption on ion exchange resins. Chemical Engineering Journal, 2016, 306, 629-639.	6.6	73
8	A physicochemicalâ€“biotechnological approach for an integrated valorization of olive mill wastewater. Bioresource Technology, 2011, 102, 10273-10279.	4.8	71
9	Recovery of VFAs from anaerobic digestion of dephenolized Olive Mill Wastewaters by Electrodialysis. Separation and Purification Technology, 2016, 159, 81-91.	3.9	69
10	Recovery of low molecular weight phenols through solid-phase extraction. Chemical Engineering Journal, 2011, 166, 994-1001.	6.6	68
11	Effect of hydraulic retention time on biohydrogen and volatile fatty acids production during acidogenic digestion of dephenolized olive mill wastewaters. Biomass and Bioenergy, 2013, 48, 51-58.	2.9	64
12	Recovery of amorphous polyhydroxybutyrate granules from Cupriavidus necator cells grown on used cooking oil. International Journal of Biological Macromolecules, 2014, 71, 117-123.	3.6	62
13	Potential biovalorization techniques for olive mill biorefinery wastewater. Biofuels, Bioproducts and Biorefining, 2014, 8, 283-293.	1.9	58
14	Anaerobic digestion of olive mill wastewaters in biofilm reactors packed with granular activated carbon and â€œManvilleâ€•silica beads. Water Research, 2004, 38, 3167-3178.	5.3	57
15	Hydraulic retention time effects on wastewater nutrient removal and bioproduct production via rotating algal biofilm reactor. Bioresource Technology, 2016, 211, 527-533.	4.8	57
16	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. International Journal of Biological Macromolecules, 2014, 71, 34-41.	3.6	56
17	Development of a biofilm technology for the production of 1,3-propanediol (1,3-PDO) from crude glycerol. Biochemical Engineering Journal, 2012, 64, 84-90.	1.8	55
18	Effect of Operational Parameters in the Continuous Anaerobic Fermentation of Cheese Whey on Titers, Yields, Productivities, and Microbial Community Structures. ACS Sustainable Chemistry and Engineering, 2017, 5, 1400-1407.	3.2	55

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19	Innovative two-stage anaerobic process for effective codigestion of cheese whey and cattle manure. Bioresource Technology, 2013, 128, 779-783.	4.8	51
20	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
21	Removal of organic xenobiotics in activated sludges under aerobic conditions and anaerobic digestion of the adsorbed species. Journal of Chemical Technology and Biotechnology, 2006, 81, 1496-1505.	1.6	46
22	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
23	Anaerobic digestion of annual and multi-annual biomass crops. Industrial Crops and Products, 2014, 56, 137-144.	2.5	45
24	Mild alkaline pre-treatments loosen fibre structure enhancing methane production from biomass crops and residues. Biomass and Bioenergy, 2014, 71, 318-329.	2.9	44
25	Biodegradation of hydroxylated and methoxylated benzoic, phenylacetic and phenylpropenoic acids present in olive mill wastewaters by two bacterial strains. Research in Microbiology, 2001, 152, 83-93.	1.0	43
26	Biohydrogen production from glucose, molasses and cheese whey by suspended and attached cells of four hyperthermophilic Thermotoga strains. Journal of Chemical Technology and Biotechnology, 2012, 87, 1291-1301.	1.6	43
27	Production of polyhydroxyalkanoates from dephenolised and fermented olive mill wastewaters by employing a pure culture of Cupriavidus necator. Biochemical Engineering Journal, 2015, 97, 92-100.	1.8	42
28	Performances and microbial features of a granular activated carbon packed-bed biofilm reactor capable of an efficient anaerobic digestion of olive mill wastewaters. FEMS Microbiology Ecology, 2004, 48, 413-423.	1.3	40
29	Use of exogenous specialised bacteria in the biological detoxification of a dump site-polychlorobiphenyl-contaminated soil in slurry phase conditions. Biotechnology and Bioengineering, 1999, 64, 240-249.	1.7	39
30	Increasing the large scale feasibility of a solid phase extraction procedure for the recovery of natural antioxidants from olive mill wastewaters. Chemical Engineering Journal, 2012, 198-199, 103-109.	6.6	37
31	Conversion of waste cooking oil into biogas: perspectives and limits. Applied Microbiology and Biotechnology, 2020, 104, 2833-2856.	1.7	36
32	Biodegradation of synthetic and naturally occurring mixtures of mono-cyclic aromatic compounds present in olive mill wastewaters by two aerobic bacteria. Applied Microbiology and Biotechnology, 2001, 55, 619-626.	1.7	35
33	Selective extraction and purification of gallic acid from actual site olive mill wastewaters by means of molecularly imprinted microparticles. Chemical Engineering Journal, 2012, 198-199, 529-535.	6.6	35
34	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
35	Microbial processes associated to the decontamination and detoxification of a polluted activated sludge during its anaerobic stabilization. Water Research, 2007, 41, 2407-2416.	5.3	34
36	Acclimation of an anaerobic consortium capable of effective biomethanization of mechanicallyâ€sorted organic fraction of municipal solid waste through a semiâ€continuous enrichment procedure. Journal of Chemical Technology and Biotechnology, 2012, 87, 1312-1319.	1.6	34

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37	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. Journal of Biotechnology, 2001, 87, 161-177.	1.9	32
38	Acclimation to hypoxia in Chlamydomonas reinhardtii: can biophotolysis be the major trigger for longâ€term H₂ production?. New Phytologist, 2014, 204, 890-900.	3.5	31
39	Nonylphenol polyethoxylate degradation in aqueous waste by the use of batch and continuous biofilm bioreactors. Water Research, 2009, 43, 2977-2988.	5.3	27
40	Biotransformation of a highly chlorinated PCB mixture in an activated sludge collected from a Membrane Biological Reactor (MBR) subjected to anaerobic digestion. Journal of Hazardous Materials, 2011, 186, 2060-2067.	6.5	21
41	Biodegradation of Polyethoxylated Nonylphenols in Packed-Bed Biofilm Reactors. Industrial & Engineering Chemistry Research, 2007, 46, 6681-6687.	1.8	18
42	PHB into PHB: Recycling of polyhydroxybutyrate by a tandem â€œthermolytic distillation-microbial fermentationâ€•process. Resources, Conservation and Recycling, 2022, 178, 106082.	5.3	18
43	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
44	Reactive extraction for in-situ carboxylate recovery from mixed culture fermentation. Biochemical Engineering Journal, 2020, 160, 107641.	1.8	16
45	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
46	Intensification of methane production from waste frying oil in a biogas-lift bioreactor. Renewable Energy, 2021, 168, 1141-1148.	4.3	14
47	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
48	Performances and microbial features of an aerobic packed-bed biofilm reactor developed to post-treat an olive mill effluent from an anaerobic GAC reactor. Microbial Cell Factories, 2006, 5, 16.	1.9	12
49	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. Water Research, 2012, 46, 413-424.	5.3	12
50	Polychlorinated biphenyl degradation in aqueous wastes by employing continuous fixed-bed bioreactors. Process Biochemistry, 2006, 41, 935-940.	1.8	11
51	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
52	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
53	Uncoupled hydrogen and volatile fatty acids generation in a two-step biotechnological anaerobic process fed with actual site wastewater. New Biotechnology, 2015, 32, 341-346.	2.4	8
54	Anaerobic codigestion of the mechanically sorted organic fraction of a municipal solid waste with cattle manure in packed microcosms under batch conditions. Water Science and Technology, 2008, 58, 1735-1742.	1.2	5

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55	Inhibition of photosystem 2 in starch-enriched Chlamydomonas reinhardtii cells prevents the efficient induction of H2 production in sulfur-depleted cultures. International Journal of Hydrogen Energy, 2012, 37, 10604-10610.	3.8	5
56	Containment of a genetically modified microorganism by an activated sludge system. New Biotechnology, 2020, 55, 58-64.	2.4	5
57	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
58	Conventional purification and isolation. , 2015, , 149-172.		3
59	Multipurpose, Integrated 2nd Generation Biorefineries. BioMed Research International, 2016, 2016, 1-2.	0.9	2
60	Biodegradation of low-ethoxylated nonylphenols in a bioreactor packed with a new ceramic support (Vukopor Â® S10). Environmental Science and Pollution Research, 2014, 21, 3241-3253.	2.7	1
61	Conventional purification and isolation. , 2021, , 129-153.		0