

Maria Cristina Lavagnolo

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,389
citations

304368

22
h-index

344852

36
g-index

53
all docs

53
docs citations

53
times ranked

1691
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of aerobic pre-treatment on hydrogen and methane production in a two-stage anaerobic digestion process using food waste with different compositions. <i>Waste Management</i> , 2017, 59, 194-199.	3.7	106
2	Use of digestate from a decentralized on-farm biogas plant as fertilizer in soils: An ecotoxicological study for future indicators in risk and life cycle assessment. <i>Waste Management</i> , 2016, 49, 378-389.	3.7	98
3	Organic waste biorefineries: Looking towards implementation. <i>Waste Management</i> , 2020, 114, 274-286.	3.7	91
4	Pre-treatment technologies for dark fermentative hydrogen production: Current advances and future directions. <i>Waste Management</i> , 2018, 71, 734-748.	3.7	77
5	Environmental and economic assessment of leachate concentrate treatment technologies using analytic hierarchy process. <i>Resources, Conservation and Recycling</i> , 2019, 141, 474-480.	5.3	61
6	Analysis of fouling development under dynamic membrane filtration operation. <i>Chemical Engineering Journal</i> , 2017, 312, 136-143.	6.6	57
7	Effects of inoculum and indigenous microflora on hydrogen production from the organic fraction of municipal solid waste. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 11774-11779.	3.8	53
8	Two-stage anaerobic digestion of the organic fraction of municipal solid waste – Effects of process conditions during batch tests. <i>Renewable Energy</i> , 2018, 126, 14-20.	4.3	51
9	The broad spectrum of possibilities for spent coffee grounds valorisation. <i>Journal of Material Cycles and Waste Management</i> , 2018, 20, 695-701.	1.6	48
10	Assessment of dynamic membrane filtration for biological treatment of old landfill leachate. <i>Journal of Environmental Management</i> , 2018, 213, 27-35.	3.8	46
11	Effect of filtration flux on the development and operation of a dynamic membrane for anaerobic wastewater treatment. <i>Journal of Environmental Management</i> , 2016, 180, 459-465.	3.8	44
12	Biological hydrogen production via dark fermentation by using a side-stream dynamic membrane bioreactor: Effect of substrate concentration. <i>Chemical Engineering Journal</i> , 2018, 349, 719-727.	6.6	40
13	Acidogenic fermentation of the organic fraction of municipal solid waste and cheese whey for bio-plastic precursors recovery – Effects of process conditions during batch tests. <i>Waste Management</i> , 2017, 70, 71-80.	3.7	39
14	Spent Coffee Grounds Alkaline Pre-treatment as Biorefinery Option to Enhance their Anaerobic Digestion Yield. <i>Waste and Biomass Valorization</i> , 2018, 9, 2565-2570.	1.8	36
15	Effect of inoculum pre-treatment on mesophilic hydrogen and methane production from food waste using two-stage anaerobic digestion. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 12013-12022.	3.8	35
16	Effects of heat treatment on microbial communities of granular sludge for biological hydrogen production. <i>Water Science and Technology</i> , 2012, 66, 1483-1490.	1.2	33
17	The S.An.A.® concept: Semi-aerobic, Anaerobic, Aerated bioreactor landfill. <i>Waste Management</i> , 2017, 67, 193-202.	3.7	32
18	Digestate application in landfill bioreactors to remove nitrogen of old landfill leachate. <i>Waste Management</i> , 2018, 74, 335-346.	3.7	32

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19	Recirculation of reverse osmosis concentrate in lab-scale anaerobic and aerobic landfill simulation reactors. <i>Waste Management</i> , 2016, 56, 262-270.	3.7	28
20	Dynamic membrane bioreactor (DMBR) for the treatment of landfill leachate; bioreactor's performance and metagenomic insights into microbial community evolution. <i>Environmental Pollution</i> , 2018, 243, 326-335.	3.7	27
21	Application of anaerobic dynamic membrane bioreactor (AnDMBR) for the successful enrichment of Anammox bacteria using mixed anaerobic and aerobic seed sludge. <i>Bioresource Technology</i> , 2018, 266, 532-540.	4.8	23
22	Dark fermentation metabolic models to study strategies for hydrogen consumers inhibition. <i>Bioresource Technology</i> , 2018, 267, 445-457.	4.8	22
23	Evaluation of aeration pretreatment to prepare an inoculum for the two-stage hydrogen and methane production process. <i>Bioresource Technology</i> , 2014, 166, 211-218.	4.8	21
24	Lab-scale co-digestion of kitchen waste and brown water for a preliminary performance evaluation of a decentralized waste and wastewater management. <i>Waste Management</i> , 2017, 66, 155-160.	3.7	20
25	Effectiveness of aerobic pretreatment of municipal solid waste for accelerating biogas generation during simulated landfilling. <i>Frontiers of Environmental Science and Engineering</i> , 2018, 12, 1.	3.3	20
26	Lab-scale phytotreatment of old landfill leachate using different energy crops. <i>Waste Management</i> , 2016, 55, 265-275.	3.7	19
27	Innovative dual-step management of semi-aerobic landfill in a tropical climate. <i>Waste Management</i> , 2018, 74, 302-311.	3.7	18
28	Potential treatment of leachate by <i>Hermetia illucens</i> (Diptera, Stratiomyidae) larvae: Performance under different feeding conditions. <i>Waste Management and Research</i> , 2020, 38, 537-545.	2.2	15
29	Different leachate phytotreatment systems using sunflowers. <i>Waste Management</i> , 2017, 59, 267-275.	3.7	14
30	Optimization of hydrogen production from food waste using anaerobic mixed cultures pretreated with waste frying oil. <i>Renewable Energy</i> , 2019, 139, 1077-1085.	4.3	14
31	The treatment of leachate using Black Soldier Fly (BSF) larvae: Adaptability and resource recovery testing. <i>Journal of Environmental Management</i> , 2020, 253, 109707.	3.8	14
32	Exploring dynamic membrane as an alternative for conventional membrane for the treatment of old landfill leachate. <i>Journal of Environmental Management</i> , 2019, 246, 658-667.	3.8	13
33	Lab tests on semi-aerobic landfilling of MSW under varying conditions of water availability and putrescible waste content. <i>Journal of Environmental Management</i> , 2020, 256, 109995.	3.8	13
34	Activated Carbon from Spent Coffee Grounds: A Good Competitor of Commercial Carbons for Water Decontamination. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5598.	1.3	13
35	Assessment of compost dosage in farmland through ecotoxicological tests. <i>Journal of Material Cycles and Waste Management</i> , 2016, 18, 303-317.	1.6	12
36	Ecological risk assessment of agricultural soils for the definition of soil screening values: A comparison between substance-based and matrix-based approaches. <i>Heliyon</i> , 2017, 3, e00284.	1.4	12

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37	Methane oxidation and attenuation of sulphur compounds in landfill top cover systems: Lab-scale tests. <i>Journal of Environmental Sciences</i> , 2018, 65, 317-326.	3.2	12
38	Compost Heat Recovery Systems: An alternative to produce renewable heat and promoting ecosystem services. <i>Environmental Challenges</i> , 2021, 4, 100131.	2.0	11
39	Assessment of the ecotoxicity of phytotreatment substrate soil as landfill cover material for in-situ leachate management. <i>Journal of Environmental Management</i> , 2019, 231, 289-296.	3.8	9
40	Use of oleaginous plants in phytotreatment of grey water and yellow water from source separation of sewage. <i>Journal of Environmental Sciences</i> , 2017, 55, 274-282.	3.2	8
41	Composting of starch-based bioplastic bags: small scale test of degradation and size reduction trend. <i>Detritus</i> , 2020, , 57-65.	0.4	8
42	Energy crops on landfills: functional, environmental, and costs analysis of different landfill configurations. <i>Environmental Science and Pollution Research</i> , 2018, 25, 35936-35948.	2.7	6
43	Study of microbial dynamics during optimization of hydrogen production from food waste by using LCFA-rich agent. <i>Bioresource Technology Reports</i> , 2019, 5, 157-163.	1.5	6
44	Enabling Circular Economy: The Overlooked Role of Inorganic Materials Chemistry. <i>Chemistry - A European Journal</i> , 2021, 27, 6676-6695.	1.7	6
45	Acute toxicity tests using earthworms to estimate ecological quality of compost and digestate. <i>Journal of Material Cycles and Waste Management</i> , 2018, 20, 552-560.	1.6	5
46	Bio-methane production from tomato pomace: preliminary evaluation of process intensification through ultrasound pre-treatment. <i>Journal of Material Cycles and Waste Management</i> , 2021, 23, 416-422.	1.6	5
47	“CLOSING THE LOOP” OF THE CIRCULAR ECONOMY AND COVID19. <i>Detritus</i> , 2020, , 1-2.	0.4	4
48	Evaluation of hidden H ₂ -consuming pathways using metabolic flux-based analysis for a fermentative side-stream dynamic membrane bioreactor using untreated seed sludge. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 20871-20881.	3.8	3
49	Preparation of artificial MSW leachate for treatment studies: Testing on black soldier fly larvae process. <i>Waste Management and Research</i> , 2022, 40, 1231-1241.	2.2	3
50	BIOLOGICAL METABOLITES RECOVERY FROM BEVERAGE PRODUCTION SOLID RESIDUES THROUGH ACIDOGENIC FERMENTATION. <i>Detritus</i> , 2019, In Press, 1.	0.4	2
51	Extraction of Bio-chemicals for Pharmaceutical and Food Industry from <i>Myrocarpus frondosus</i> , <i>Robinia pseudoacacia</i> and Three <i>Quercus</i> Species. <i>Waste and Biomass Valorization</i> , 2020, 11, 2059-2065.	1.8	1
52	OPTIMISED MANAGEMENT OF SEMI-AEROBIC LANDFILLING UNDER TROPICAL WET-DRY CONDITIONS. <i>Detritus</i> , 2020, , 160-169.	0.4	1