Antonio Serrano

List of Publications by Year
in descending order

63 papers	1,444 citations	304602 22 h-index	360920 35 g-index
63 all docs	63 docs citations	63 times ranked	1760 citing authors

#	Article	IF	Citations
1	Challenges of scaling-up PHA production from waste streams. A review. Journal of Environmental Management, 2018, 205, 215-230.	3.8	200
2	Valuable Compound Extraction, Anaerobic Digestion, and Composting: A Leading Biorefinery Approach for Agricultural Wastes. Journal of Agricultural and Food Chemistry, 2018, 66, 8451-8468.	2.4	115
3	Evaluation of the improvement of sonication pre-treatment in the anaerobic digestion of sewage sludge. Journal of Environmental Management, 2015, 147, 330-337.	3.8	58
4	Olive mill solid waste biorefinery: High-temperature thermal pre-treatment for phenol recovery and biomethanization. Journal of Cleaner Production, 2017, 148, 314-323.	4.6	58
5	Semi-continuous anaerobic co-digestion of orange peel waste and residual glycerol derived from biodiesel manufacturing. Waste Management, 2013, 33, 1633-1639.	3.7	54
6	Improvement of anaerobic digestion of sewage sludge through microwave pre-treatment. Journal of Environmental Management, 2016, 177, 231-239.	3.8	49
7	Agri-food waste valorization through anaerobic co-digestion: fish and strawberry residues. Journal of Cleaner Production, 2013, 54, 125-132.	4.6	47
8	Improvement of the biomethanization of sewage sludge by thermal pre-treatment and co-digestion with strawberry extrudate. Journal of Cleaner Production, 2015, 90, 25-33.	4.6	47
9	Improvement of mesophilic anaerobic co-digestion of agri-food waste by addition of glycerol. Journal of Environmental Management, 2014, 140, 76-82.	3.8	36
10	Mesophilic anaerobic co-digestion of sewage sludge and orange peel waste. Environmental Technology (United Kingdom), 2014, 35, 898-906.	1.2	33
11	Biomethanization of waste derived from strawberry processing: advantages ofÂpretreatment. Journal of Cleaner Production, 2013, 42, 190-197.	4.6	32
12	Centralized management of sewage sludge and agro-industrial waste through co-composting. Journal of Environmental Management, 2017, 196, 387-393.	3.8	31
13	Monitoring of pile composting process of OFMSW at full scale and evaluation of odour emission impact. Journal of Environmental Management, 2015, 151, 531-539.	3.8	30
14	The accumulation of volatile fatty acids and phenols through a pH-controlled fermentation of olive mill solid waste. Science of the Total Environment, 2019, 657, 1501-1507.	3.9	30
15	Biomethanization of olive mill solid waste after phenols recovery through low-temperature thermal pre-treatment. Waste Management, 2017, 61, 229-235.	3.7	29
16	Effect of variation in the C/[N+P] ratio on anaerobic digestion. Environmental Progress and Sustainable Energy, 2019, 38, 228-236.	1.3	29
17	Thermally-treated strawberry extrudate: A rich source of antioxidant phenols and sugars. Innovative Food Science and Emerging Technologies, 2019, 51, 186-193.	2.7	29
18	Effect of cobalt supplementation and fractionation on the biological response in the biomethanization of Olive Mill Solid Waste. Bioresource Technology, 2016, 211, 58-64.	4.8	28

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19	Self-sustaining treatment as a novel alternative for the stabilization of anaerobic digestate. Journal of Environmental Management, 2020, 264, 110544.	3.8	27
20	Phenols recovery after steam explosion of Olive Mill Solid Waste and its influence on a subsequent biomethanization process. Bioresource Technology, 2017, 243, 169-178.	4.8	26
21	The importance of governmental incentives for small biomethane plants in South Spain. Energy, 2020, 206, 118158.	4.5	25
22	Influence of phenols and furans released during thermal pretreatment of olive mill solid waste on its anaerobic digestion. Waste Management, 2021, 120, 202-208.	3.7	25
23	Optimization of Anaerobic Co-digestion of Strawberry and Fish Waste. Applied Biochemistry and Biotechnology, 2014, 173, 1391-1404.	1.4	24
24	Extraction of phenolic compounds and production of biomethane from strawberry and raspberry extrudates. Biochemical Engineering Journal, 2019, 147, 11-19.	1.8	24
25	Performance evaluation of mesophilic semi-continuous anaerobic digestion of high-temperature thermally pre-treated olive mill solid waste. Waste Management, 2019, 87, 250-257.	3.7	22
26	Environmental Assessment of Olive Mill Solid Waste Valorization via Anaerobic Digestion Versus Olive Pomace Oil Extraction. Processes, 2020, 8, 626.	1.3	22
27	Odour in composting processes at pilot scale: monitoring and biofiltration. Environmental Technology (United Kingdom), 2014, 35, 1676-1684.	1.2	19
28	Mixture optimization of anaerobic co-digestion of tomato and cucumber waste. Environmental Technology (United Kingdom), 2015, 36, 2628-2636.	1.2	18
29	Evaluation of the Anaerobic Co-Digestion of Sewage Sludge and Tomato Waste at Mesophilic Temperature. Applied Biochemistry and Biotechnology, 2014, 172, 3862-3874.	1.4	16
30	Nickel complexation as an innovative approach for nickel-cobalt selective recovery using sulfate-reducing bacteria. Journal of Hazardous Materials, 2021, 402, 123506.	6.5	16
31	Beyond PHA: Stimulating intracellular accumulation of added-value compounds in mixed microbial cultures. Bioresource Technology, 2021, 337, 125381.	4.8	16
32	Is anaerobic digestion a feasible alternative to the combustion of olive mill solid waste in terms of energy production? A critical review. Biofuels, Bioproducts and Biorefining, 2021, 15, 150-162.	1.9	15
33	Decreasing Microbial Fuel Cell Start-Up Time Using Multi-Walled Carbon Nanotubes. Emerging Science Journal, 2019, 3, 109.	1.4	14
34	Anaerobic co-digestion of sewage sludge and strawberry extrudate under mesophilic conditions. Environmental Technology (United Kingdom), 2014, 35, 2920-2927.	1.2	13
35	Long-Term Evaluation of Mesophilic Semi-Continuous Anaerobic Digestion of Olive Mill Solid Waste Pretreated with Steam-Explosion. Energies, 2019, 12, 2222.	1.6	13
36	Trace elements effect on hydrolytic stage towards biogas production of model lignocellulosic substrates. Journal of Environmental Management, 2019, 234, 320-325.	3.8	13

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37	Batch assays for biological sulfate-reduction: a review towards a standardized protocol. Critical Reviews in Environmental Science and Technology, 2020, 50, 1195-1223.	6.6	13
38	High-Value-Added Compound Recovery with High-Temperature Hydrothermal Treatment and Steam Explosion, and Subsequent Biomethanization of Residual Strawberry Extrudate. Foods, 2020, 9, 1082.	1.9	13
39	Bottom ash from smouldered digestate and coconut coir as an alkalinity supplement for the anaerobic digestion of fruit waste. Chemosphere, 2022, 296, 134049.	4.2	12
40	The influence of biologically produced sulfide-containing solutions on nickel and cobalt precipitation reactions and particle settling properties. Hydrometallurgy, 2019, 189, 105142.	1.8	11
41	Assessment of the treatment, production and characteristics of WWTP sludge in Andalusia by multivariate analysis. Chemical Engineering Research and Design, 2017, 109, 609-620.	2.7	9
42	Solubilization of Phenols and Sugars from Raspberry Extrudate by Hydrothermal Treatments. Processes, 2020, 8, 842.	1.3	8
43	pH-Controlled fermentation of strawberry waste as phenol solubilisation method. Journal of Cleaner Production, 2020, 266, 121924.	4.6	8
44	Interrelating EPS, soluble microbial products and metal solubility in a methanogenic consortium stressed by nickel and cobalt. Ecotoxicology and Environmental Safety, 2022, 238, 113579.	2.9	8
45	Enhancing the recovery of volatile fatty acids from strawberry extrudate through anaerobic fermentation at different pH values. Environmental Technology and Innovation, 2022, 28, 102587.	3.0	8
46	GM foods in Spanish newspapers. Trends in Biotechnology, 2002, 20, 285-286.	4.9	7
47	Risks of using EDTA as an agent for trace metals dosing in anaerobic digestion of olive mill solid waste. Environmental Technology (United Kingdom), 2017, 38, 3137-3144.	1.2	7
48	Sequential adaptation ofNannochloropsis gaditanato table olive processing water. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2017, 52, 986-991.	0.9	7
49	Potential of a local microalgal strain isolated from anaerobic digester effluents for nutrient removal. Journal of Applied Phycology, 2019, 31, 345-353.	1.5	7
50	Effects of barium on the pathways of anaerobic digestion. Journal of Environmental Management, 2019, 232, 397-403.	3.8	7
51	Enhanced metal recovery by efficient agglomeration of precipitates in an up-flow fixed-bed bioreactor. Chemical Engineering Journal, 2021, 416, 127662.	6.6	7
52	Mesophilic Semi-Continuous Anaerobic Digestion of Strawberry Extrudate Pretreated with Steam Explosion. Foods, 2020, 9, 1887.	1.9	5
53	Can aquatic worms enhance methane production from waste activated sludge?. Bioresource Technology, 2016, 211, 51-57.	4.8	4
54	Rabbit manure as a potential inoculum for anaerobic digestion. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2019, 54, 943-950.	0.9	4

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55	Biogas Potential of the Side Streams Obtained in a Novel Phenolic Extraction System from Olive Mill Solid Waste. Molecules, 2020, 25, 5438.	1.7	4
56	Assessment of different mechanical treatments for improving the anaerobic biodegradability of residual raspberry extrudate. Waste Management, 2022, 139, 190-198.	3.7	4
57	Biological treatment of mine-impacted waters on the context of metal recovery. , 2021, , 499-522.		2
58	Valorization Options of Strawberry Extrudate Agro-Waste. A Review. , 0, , .		2
59	Comparison of Pre-treatment Technologies to Improve Sewage Sludge Biomethanization. Applied Biochemistry and Biotechnology, 2021, 193, 777-790.	1.4	1
60	Suitability of olive oil washing water as an electron donor in a feed batch operating bio-electrochemical system. Grasas Y Aceites, 2017, 68, 198.	0.3	1
61	Culture of microalgae biomass for valorization of table olive processing water. Grasas Y Aceites, 2016, 67, e146.	0.3	1
62	Use of Anthracophyllum discolor and Stereum hirsutum as a Suitable Strategy for Delignification and Phenolic Removal of Olive Mill Solid Waste. Foods, 2022, 11, 1587.	1.9	1
63	Role of the substrate on Ni inhibition in biological sulfate reduction. Journal of Environmental Management, 2022, 316, 115216.	3.8	0