Miguel A Sanchez-Monedero

List of Publications by Year
in descending order

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96 papers	10,241 citations	46984 47 h-index	37183 96 g-index
97 all docs	97 docs citations	97 times ranked	8593 citing authors

#	Article	IF	Citations
1	Biochar's role in mitigating soil nitrous oxide emissions: A review and meta-analysis. Agriculture, Ecosystems and Environment, 2014, 191, 5-16.	2.5	746
2	Maturity and stability parameters of composts prepared with a wide range of organic wastes. Bioresource Technology, 1998, 63, 91-99.	4.8	640
3	An overview on olive mill wastes and their valorisation methods. Waste Management, 2006, 26, 960-969.	3.7	614
4	Physical and chemical characterization of biochars derived from different agricultural residues. Biogeosciences, 2014, 11, 6613-6621.	1.3	515
5	Biochar and denitrification in soils: when, how much and why does biochar reduce N2O emissions?. Scientific Reports, 2013, 3, 1732.	1.6	497
6	Nitrogen transformation during organic waste composting by the Rutgers system and its effects on pH, EC and maturity of the composting mixtures. Bioresource Technology, 2001, 78, 301-308.	4.8	459
7	Properties of biochar derived from wood and high-nutrient biomasses with the aim of agronomic and environmental benefits. PLoS ONE, 2017, 12, e0176884.	1.1	380
8	Use of biochar as bulking agent for the composting of poultry manure: Effect on organic matter degradation and humification. Bioresource Technology, 2010, 101, 1239-1246.	4.8	370
9	Role of biochar as an additive in organic waste composting. Bioresource Technology, 2018, 247, 1155-1164.	4.8	316
10	Carbon mineralization from organic wastes at different composting stages during their incubation with soil. Agriculture, Ecosystems and Environment, 1998, 69, 175-189.	2.5	294
11	Biochar accelerates organic matter degradation and enhances N mineralisation during composting of poultry manure without a relevant impact on gas emissions. Bioresource Technology, 2015, 192, 272-279.	4.8	284
12	Characterization of olive mill wastewater (alpechin) and its sludge for agricultural purposes. Bioresource Technology, 1999, 67, 111-115.	4.8	246
13	Evolution of organic matter and nitrogen during co-composting of olive mill wastewater with solid organic wastes. Biology and Fertility of Soils, 2000, 32, 222-227.	2.3	234
14	Chemical and biochemical characterisation of biochar-blended composts prepared from poultry manure. Bioresource Technology, 2012, 110, 396-404.	4.8	203
15	Biochar influences the microbial community structure during manure composting with agricultural wastes. Science of the Total Environment, 2012, 416, 476-481.	3.9	185
16	Influence of biochar addition on the humic substances of composting manures. Waste Management, 2016, 49, 545-552.	3.7	185
17	Maturity indices in co-composting of chicken manure and sawdust with biochar. Bioresource Technology, 2014, 168, 245-251.	4.8	184
18	Land application of biosolids. Soil response to different stabilization degree of the treated organic matter. Waste Management, 2004, 24, 325-332.	3.7	174

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19	Influence of sewage sludge compost stability and maturity on carbon and nitrogen mineralization in soil. Soil Biology and Biochemistry, 1998, 30, 305-313.	4.2	166
20	Relationships between water-soluble carbohydrate and phenol fractions and the humification indices of different organic wastes during composting. Bioresource Technology, 1999, 70, 193-201.	4.8	163
21	Biochar improves N cycling during composting of olive mill wastes and sheep manure. Waste Management, 2016, 49, 553-559.	3.7	157
22	Effect of the aeration system on the levels of airborne microorganisms generated at wastewater treatment plants. Water Research, 2008, 42, 3739-3744.	5.3	138
23	Biochar in agriculture â€“ A systematic review of 26 global metaâ€analyses. GCB Bioenergy, 2021, 13, 1708-1730.	2.5	136
24	Evaluation of two different aeration systems for composting two-phase olive mill wastes. Process Biochemistry, 2006, 41, 616-623.	1.8	121
25	Soil microbial biomass activation by trace amounts of readily available substrate. Biology and Fertility of Soils, 2006, 42, 542-549.	2.3	110
26	Composts as Media Constituents for Vegetable Transplant Production. Compost Science and Utilization, 2004, 12, 161-168.	1.2	105
27	Greenhouse gas emissions from organic waste composting. Environmental Chemistry Letters, 2015, 13, 223-238.	8.3	103
28	Chemical and structural evolution of humic acids during organic waste composting. Biodegradation, 2002, 13, 361-371.	1.5	99
29	Enhancing biochar redox properties through feedstock selection, metal preloading and post-pyrolysis treatments. Chemical Engineering Journal, 2020, 395, 125100.	6.6	99
30	Greenhouse gas emissions during composting of two-phase olive mill wastes with different agroindustrial by-products. Chemosphere, 2010, 81, 18-25.	4.2	94
31	Soil application of meat and bone meal. Short-term effects on mineralization dynamics and soil biochemical and microbiological properties. Soil Biology and Biochemistry, 2008, 40, 462-474.	4.2	92
32	A microanalysis method for determining total organic carbon in extracts of humic substances. Relationships between total organic carbon and oxidable carbon. Bioresource Technology, 1996, 57, 291-295.	4.8	91
33	Chemical properties and hydrolytic enzyme activities for the characterisation of two-phase olive mill wastes composting. Bioresource Technology, 2008, 99, 4255-4262.	4.8	89
34	Application of compost of two-phase olive mill waste on olive grove: Effects on soil, olive fruit and olive oil quality. Waste Management, 2014, 34, 1139-1147.	3.7	88
35	Physical and chemical properties of biochars co-composted with biowastes and incubated with a chicken litter compost. Chemosphere, 2016, 142, 14-23.	4.2	86
36	Fluorescein diacetate hydrolysis, respiration and microbial biomass in freshly amended soils. Biology and Fertility of Soils, 2008, 44, 885-890.	2.3	85

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37	Influence of biochar addition on methane metabolism during thermophilic phase of composting. Journal of Basic Microbiology, 2013, 53, 617-621.	1.8	75
38	Agronomic Evaluation of Biochar, Compost and Biochar-Blended Compost across Different Cropping Systems: Perspective from the European Project FERTIPLUS. Agronomy, 2019, 9, 225.	1.3	72
39	From Lab to Field: Role of Humic Substances Under Open-Field and Greenhouse Conditions as Biostimulant and Biocontrol Agent. Frontiers in Plant Science, 2020, 11, 426.	1.7	72
40	Compost vs biochar amendment: a two-year field study evaluating soil C build-up and N dynamics in an organically managed olive crop. Plant and Soil, 2016, 408, 1-14.	1.8	68
41	Understanding, measuring and tuning the electrochemical properties of biochar for environmental applications. Reviews in Environmental Science and Biotechnology, 2017, 16, 695-715.	3.9	68
42	Enhancing Cation Exchange Capacity of Weathered Soils Using Biochar: Feedstock, Pyrolysis Conditions and Addition Rate. Agronomy, 2020, 10, 824.	1.3	64
43	Interactive priming of soil N transformations from combining biochar and urea inputs: A 15N isotope tracer study. Soil Biology and Biochemistry, 2019, 131, 166-175.	4.2	60
44	The use of elemental sulphur as organic alternative to control pH during composting of olive mill wastes. Chemosphere, 2004, 57, 1099-1105.	4.2	54
45	Biochar reduces volatile organic compounds generated during chicken manure composting. Bioresource Technology, 2019, 288, 121584.	4.8	54
46	Copper immobilization by biochar and microbial community abundance in metal-contaminated soils. Science of the Total Environment, 2018, 616-617, 960-969.	3.9	52
47	Biochemical changes and GHG emissions during composting of lignocellulosic residues with different N-rich by-products. Chemosphere, 2012, 88, 196-203.	4.2	49
48	The effects of earthworms Eisenia spp. on microbial community are habitat dependent. European Journal of Soil Biology, 2015, 68, 42-55.	1.4	48
49	Two-phase olive mill waste composting: enhancement of the composting rate and compost quality by grape stalks addition. Biodegradation, 2010, 21, 465-473.	1.5	45
50	Contribution of the lignocellulosic fraction of two-phase olive-mill wastes to the degradation and humification of the organic matter during composting. Waste Management, 2010, 30, 1939-1947.	3.7	45
51	Biofiltration at Composting Facilities:Â Effectiveness for Bioaerosol Control. Environmental Science & Technology, 2003, 37, 4299-4303.	4.6	42
52	Bioaerosol Generation at Large-Scale Green Waste Composting Plants. Journal of the Air and Waste Management Association, 2005, 55, 612-618.	0.9	42
53	Biochar increases soil N2O emissions produced by nitrification-mediated pathways. Frontiers in Environmental Science, 2014, 2, .	1.5	42
54	Role of biochar in promoting circular economy in the agriculture sector. Part 1: A review of the biochar roles in soil N, P and K cycles. Chemical and Biological Technologies in Agriculture, 2020, 7, .	1.9	41

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55	Potential of olive mill wastes for soil C sequestration. Waste Management, 2008, 28, 767-773.	3.7	40
56	Effects of nitrate contamination and seasonal variation on the denitrification and greenhouse gas production in La Rocina Stream (DoÃ±ana National Park, SW Spain). Ecological Engineering, 2011, 37, 539-548.	1.6	40
57	Influence of the bulking agent on the degradation of olive-mill wastewater sludge during composting. International Biodeterioration and Biodegradation, 1996, 38, 205-210.	1.9	38
58	Generation and Dispersion of Airborne Microorganisms from Composting Facilities. Chemical Engineering Research and Design, 2003, 81, 166-170.	2.7	34
59	Effects of HCl-HF purification treatment on chemical composition and structure of humic acids. European Journal of Soil Science, 2002, 53, 375-381.	1.8	33
60	Matrix effect on the performance of headspace solid phase microextraction method for the analysis of target volatile organic compounds (VOCs) in environmental samples. Chemosphere, 2013, 93, 2311-2318.	4.2	32
61	Greenhouse gas emissions and carbon sink capacity of amended soils evaluated under laboratory conditions. Soil Biology and Biochemistry, 2007, 39, 1366-1374.	4.2	31
62	Modification of the RothC model to simulate soil C mineralization of exogenous organic matter. Biogeosciences, 2017, 14, 3253-3274.	1.3	29
63	A simple automated system for measuring soil respiration by gas chromatography. Talanta, 2010, 81, 849-855.	2.9	25
64	Influence of Stability and Origin of Organic Amendments on Humification in Semiarid Soils. Soil Science Society of America Journal, 2011, 75, 2178-2187.	1.2	25
65	High concentrations of polycyclic aromatic hydrocarbons (naphthalene, phenanthrene and pyrene) failed to explain biochar's capacity to reduce soil nitrous oxide emissions. Environmental Pollution, 2015, 196, 72-77.	3.7	25
66	Role of biochar in promoting circular economy in the agriculture sector. Part 2: A review of the biochar roles in growing media, composting and as soil amendment. Chemical and Biological Technologies in Agriculture, 2020, 7, .	1.9	23
67	Evaluation of Extracted Organic Carbon and Microbial Biomass as Stability Parameters in Ligno-Cellulosic Waste Composts. Journal of Environmental Quality, 2006, 35, 2313-2320.	1.0	22
68	Biochars from Mediterranean Agroindustry Residues: Physicochemical Properties Relevant for C Sequestration and Soil Water Retention. ACS Sustainable Chemistry and Engineering, 2019, 7, 4724-4733.	3.2	21
69	Relationships between emitted volatile organic compounds and their concentration in the pile during municipal solid waste composting. Waste Management, 2018, 79, 179-187.	3.7	20
70	The Efficiency of a Low Dose of Biochar in Enhancing the Aromaticity of Humic-Like Substance Extracted from Poultry Manure Compost. Agronomy, 2019, 9, 248.	1.3	20
71	Overcoming biochar limitations to remediate pentachlorophenol in soil by modifying its electrochemical properties. Journal of Hazardous Materials, 2022, 426, 127805.	6.5	20
72	Carbon and ninhydrinâ€reactive nitrogen of the microbial biomass in rewetted compost samples. Communications in Soil Science and Plant Analysis, 1997, 28, 113-122.	0.6	17

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73	Changes in soil humic pools after soil application of two-phase olive mill waste compost. Geoderma, 2013, 192, 21-30.	2.3	17
74	Suitability of Different Agricultural and Urban Organic Wastes as Feedstocks for the Production of Biocharâ€"Part 1: Physicochemical Characterisation. Sustainability, 2018, 10, 2265.	1.6	17
75	Compost biochemical quality mediates nitrogen leaching loss in a greenhouse soil under vegetable cultivation. Geoderma, 2020, 358, 113984.	2.3	17
76	Linking biochars properties to their capacity to modify aerobic CH4 oxidation in an upland agricultural soil. Geoderma, 2020, 363, 114179.	2.3	16
77	Methodological interference of biochar in the determination of extracellular enzyme activities in composting samples. Solid Earth, 2014, 5, 713-719.	1.2	15
78	Biochar as electron donor for reduction of N2O by Paracoccus denitrificans. FEMS Microbiology Ecology, 2020, 96, .	1.3	14
79	Fourier transform infrared spectroscopy and partial least square regression for the prediction of substrate maturity indexes. Science of the Total Environment, 2014, 470-471, 536-542.	3.9	12
80	Suitability of Different Agricultural and Urban Organic Wastes as Feedstocks for the Production of Biocharâ€"Part 2: Agronomical Evaluation as Soil Amendment. Sustainability, 2018, 10, 2077.	1.6	11
81	Soil C Storage Potential of Exogenous Organic Matter at Regional Level (Italy) Under Climate Change Simulated by RothC Model Modified for Amended Soils. Frontiers in Environmental Science, 2018, 6, .	1.5	10
82	Response of Soil Microbial Community to a High Dose of Fresh Olive Mill Wastewater. Pedosphere, 2013, 23, 281-289.	2.1	9
83	N2O emissions during Brassica oleracea cultivation: Interaction of biochar with mineral and organic fertilization. European Journal of Agronomy, 2020, 115, 126021.	1.9	8
84	Development of a buried bag technique to study biochars incorporated in a compost or composting medium. Journal of Soils and Sediments, 2017, 17, 656-664.	1.5	7
85	Olive tree pruning derived biochar increases glucosinolate concentrations in broccoli. Scientia Horticulturae, 2020, 267, 109329.	1.7	7
86	Paracetamol degradation pathways in soil after biochar addition. Environmental Pollution, 2022, 307, 119546.	3.7	7
87	COMPOST PREPARED WITH TWO PHASE OLIVE MILL WASTE "ALPERUJO" AS GROWING MEDIA. Acta Horticulturae, 2013, , 217-224.	0.1	6
88	Chemically and biologically activated biochars slow down urea hydrolysis and improve nitrogen use efficiency. Pedosphere, 2023, 33, 659-669.	2.1	6
89	Soil mineralization of two-phase olive mill wastes: effect of the lignocellulosic composition on soil C dynamics. Journal of Environmental Monitoring, 2012, 14, 499-509.	2.1	4
90	Past, present and future of composting research. Acta Horticulturae, 2016, , 1-10.	0.1	4

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91	Carbon mineralization dynamics in soils amended with meat meals under laboratory conditions. Waste Management, 2008, 28, 707-715.	3.7	3
92	Influence of Particle Size of Municipal Solid Waste Amendments and Presence or Absence ofEisenia fetidaon Soil Greenhouse Gases Emission. Communications in Soil Science and Plant Analysis, 2014, 45, 1214-1226.	0.6	3
93	Biochar Improves the Properties of Poultry Manure Compost as Growing Media for Rosemary Production. Agronomy, 2020, 10, 261.	1.3	3
94	The complexity of soil biological sustainability. Acta Horticulturae, 2016, , 69-78.	0.1	2
95	Effect of charcoal-blended compost on plant growth of Brassica rapa var. peruviridis for reduction of nitrogen fertilizer use. Acta Horticulturae, 2016, , 257-262.	0.1	1
96	QUALITY ASSESSMENT OF COMPOST PREPARED WITH BY-PRODUCT OF THE OLIVE OIL INDUSTRY - AGRONOMIC APPLICATION IN OLIVE GROVE. Acta Horticulturae, 2011, , 241-246.	0.1	0