

# Mara L Cayuela

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71  
papers

4,773  
citations

37  
h-index

69  
g-index

79  
ext. papers

5,858  
ext. citations

7  
avg, IF

5.84  
L-index

#	Paper	IF	Citations
71	Paracetamol degradation pathways in soil after biochar addition. <i>Environmental Pollution</i> , <b>2022</b> , 119546	9.3	0
70	Biochar in climate change mitigation. <i>Nature Geoscience</i> , <b>2021</b> , 14, 883-892	18.3	25
69	Overcoming biochar limitations to remediate pentachlorophenol in soil by modifying its electrochemical properties. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 426, 127805	12.8	1
68	Nitrogen dynamics in cropping systems under Mediterranean climate: a systemic analysis. <i>Environmental Research Letters</i> , <b>2021</b> , 16, 073002	6.2	4
67	Biochar as an additive in composting: impact on process performance and on the agronomical quality of the end product. <i>Acta Horticulturae</i> , <b>2021</b> , 175-188	0.3	
66	How biochar works, and when it doesn't: A review of mechanisms controlling soil and plant responses to biochar. <i>GCB Bioenergy</i> , <b>2021</b> , 13, 1731	5.6	38
65	Biochar in agriculture [A systematic review of 26 global meta-analyses. <i>GCB Bioenergy</i> , <b>2021</b> , 13, 1708	5.6	23
64	Olive tree pruning derived biochar increases glucosinolate concentrations in broccoli. <i>Scientia Horticulturae</i> , <b>2020</b> , 267, 109329	4.1	4
63	Biochar as electron donor for reduction of N <sub>2</sub> O by <i>Paracoccus denitrificans</i> . <i>FEMS Microbiology Ecology</i> , <b>2020</b> , 96,	4.3	3
62	N <sub>2</sub> O emissions during Brassica oleracea cultivation: Interaction of biochar with mineral and organic fertilization. <i>European Journal of Agronomy</i> , <b>2020</b> , 115, 126021	5	7
61	Linking biochars properties to their capacity to modify aerobic CH <sub>4</sub> oxidation in an upland agricultural soil. <i>Geoderma</i> , <b>2020</b> , 363, 114179	6.7	10
60	Biochar Improves the Properties of Poultry Manure Compost as Growing Media for Rosemary Production. <i>Agronomy</i> , <b>2020</b> , 10, 261	3.6	3
59	Compost biochemical quality mediates nitrogen leaching loss in a greenhouse soil under vegetable cultivation. <i>Geoderma</i> , <b>2020</b> , 358, 113984	6.7	8
58	Feedstock choice, pyrolysis temperature and type influence biochar characteristics: a comprehensive meta-data analysis review. <i>Biochar</i> , <b>2020</b> , 2, 421-438	10	96
57	Enhancing biochar redox properties through feedstock selection, metal preloading and post-pyrolysis treatments. <i>Chemical Engineering Journal</i> , <b>2020</b> , 395, 125100	14.7	45
56	Biochars from Mediterranean Agroindustry Residues: Physicochemical Properties Relevant for C Sequestration and Soil Water Retention. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 4724-4733	8.3	12
55	Biochar reduces volatile organic compounds generated during chicken manure composting. <i>Bioresource Technology</i> , <b>2019</b> , 288, 121584	11	27

54	Agronomic Evaluation of Biochar, Compost and Biochar-Blended Compost across Different Cropping Systems: Perspective from the European Project FERTIPLUS. <i>Agronomy</i> , <b>2019</b> , 9, 225	3.6	44
53	Influence of Pyrolyzed Grape-Seeds/Sewage Sludge Blends on the Availability of P, Fe, Cu, As and Cd to Maize. <i>Agronomy</i> , <b>2019</b> , 9, 406	3.6	3
52	Biochar reduces the efficiency of nitrification inhibitor 3,4-dimethylpyrazole phosphate (DMPP) mitigating NO emissions. <i>Scientific Reports</i> , <b>2019</b> , 9, 2346	4.9	15
51	Interactive priming of soil N transformations from combining biochar and urea inputs: A 15N isotope tracer study. <i>Soil Biology and Biochemistry</i> , <b>2019</b> , 131, 166-175	7.5	40
50	Biochar, soil and land-use interactions that reduce nitrate leaching and NO emissions: A meta-analysis. <i>Science of the Total Environment</i> , <b>2019</b> , 651, 2354-2364	10.2	174
49	The long-term role of organic amendments in building soil nutrient fertility: a meta-analysis and review. <i>Nutrient Cycling in Agroecosystems</i> , <b>2018</b> , 111, 103-125	3.3	73
48	Role of biochar as an additive in organic waste composting. <i>Bioresource Technology</i> , <b>2018</b> , 247, 1155-1164	4.1	200
47	Suitability of Different Agricultural and Urban Organic Wastes as Feedstocks for the Production of BiocharPart 2: Agronomical Evaluation as Soil Amendment. <i>Sustainability</i> , <b>2018</b> , 10, 2077	3.6	8
46	Relationships between emitted volatile organic compounds and their concentration in the pile during municipal solid waste composting. <i>Waste Management</i> , <b>2018</b> , 79, 179-187	8.6	11
45	Biochar for Climate Change Mitigation <b>2018</b> , 219-248		6
44	Soil C Storage Potential of Exogenous Organic Matter at Regional Level (Italy) Under Climate Change Simulated by RothC Model Modified for Amended Soils. <i>Frontiers in Environmental Science</i> , <b>2018</b> , 6,	4.8	4
43	Suitability of Different Agricultural and Urban Organic Wastes as Feedstocks for the Production of BiocharPart 1: Physicochemical Characterisation. <i>Sustainability</i> , <b>2018</b> , 10, 2265	3.6	11
42	Biochar research activities and their relation to development and environmental quality. A meta-analysis. <i>Agronomy for Sustainable Development</i> , <b>2017</b> , 37, 1	6.8	13
41	Strategies for greenhouse gas emissions mitigation in Mediterranean agriculture: A review. <i>Agriculture, Ecosystems and Environment</i> , <b>2017</b> , 238, 5-24	5.7	137
40	Understanding, measuring and tuning the electrochemical properties of biochar for environmental applications. <i>Reviews in Environmental Science and Biotechnology</i> , <b>2017</b> , 16, 695-715	13.9	37
39	Modification of the RothC model to simulate soil C mineralization of exogenous organic matter. <i>Biogeosciences</i> , <b>2017</b> , 14, 3253-3274	4.6	19
38	BIOCHAR AS A TOOL TO REDUCE THE AGRICULTURAL GREENHOUSE-GAS BURDEN [KNOWN, UNKNOWN AND FUTURE RESEARCH NEEDS]. <i>Journal of Environmental Engineering and Landscape Management</i> , <b>2017</b> , 25, 114-139	1.1	93
37	Direct nitrous oxide emissions in Mediterranean climate cropping systems: Emission factors based on a meta-analysis of available measurement data. <i>Agriculture, Ecosystems and Environment</i> , <b>2017</b> , 238, 25-35	5.7	129

36	Biochar improves N cycling during composting of olive mill wastes and sheep manure. <i>Waste Management</i> , <b>2016</b> , 49, 553-559	8.6	116
35	Compost vs biochar amendment: a two-year field study evaluating soil C build-up and N dynamics in an organically managed olive crop. <i>Plant and Soil</i> , <b>2016</b> , 408, 1-14	4.2	52
34	Biochar accelerates organic matter degradation and enhances N mineralisation during composting of poultry manure without a relevant impact on gas emissions. <i>Bioresource Technology</i> , <b>2015</b> , 192, 272-9 <sup>11</sup>	11	223
33	High concentrations of polycyclic aromatic hydrocarbons (naphthalene, phenanthrene and pyrene) failed to explain biochar's capacity to reduce soil nitrous oxide emissions. <i>Environmental Pollution</i> , <b>2015</b> , 196, 72-7	9.3	25
32	Greenhouse gas emissions from organic waste composting. <i>Environmental Chemistry Letters</i> , <b>2015</b> , 13, 223-238	13.3	68
31	Greenhouse Gas from Organic Waste Composting: Emissions and Measurement. <i>Environmental Chemistry for A Sustainable World</i> , <b>2015</b> , 33-70	0.8	9
30	The molar H:C <sub>org</sub> ratio of biochar is a key factor in mitigating N <sub>2</sub> O emissions from soil. <i>Agriculture, Ecosystems and Environment</i> , <b>2015</b> , 202, 135-138	5.7	123
29	Tracking C and N dynamics and stabilization in soil amended with wheat residue and its corresponding bioethanol by-product: a <sup>13</sup> C/ <sup>15</sup> N study. <i>GCB Bioenergy</i> , <b>2014</b> , 6, 499-508	5.6	5
28	Biochar's role in mitigating soil nitrous oxide emissions: A review and meta-analysis. <i>Agriculture, Ecosystems and Environment</i> , <b>2014</b> , 191, 5-16	5.7	564
27	Biochar increases soil N <sub>2</sub> O emissions produced by nitrification-mediated pathways. <i>Frontiers in Environmental Science</i> , <b>2014</b> , 2,	4.8	32
26	Matrix effect on the performance of headspace solid phase microextraction method for the analysis of target volatile organic compounds (VOCs) in environmental samples. <i>Chemosphere</i> , <b>2013</b> , 93, 2311-8	8.4	25
25	Biochar and denitrification in soils: when, how much and why does biochar reduce N <sub>2</sub> O emissions?. <i>Scientific Reports</i> , <b>2013</b> , 3, 1732	4.9	399
24	Bioenergy from cattle manure? Implications of anaerobic digestion and subsequent pyrolysis for carbon and nitrogen dynamics in soil. <i>GCB Bioenergy</i> , <b>2012</b> , 4, 751-760	5.6	44
23	Short term effects of bioenergy by-products on soil C and N dynamics, nutrient availability and biochemical properties. <i>Agriculture, Ecosystems and Environment</i> , <b>2012</b> , 160, 3-14	5.7	120
22	Biochemical changes and GHG emissions during composting of lignocellulosic residues with different N-rich by-products. <i>Chemosphere</i> , <b>2012</b> , 88, 196-203	8.4	42
21	Residues of bioenergy production chains as soil amendments: immediate and temporal phytotoxicity. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 186, 2017-25	12.8	108
20	Nitrous oxide and carbon dioxide emissions during initial decomposition of animal by-products applied as fertilisers to soils. <i>Geoderma</i> , <b>2010</b> , 157, 235-242	6.7	41
19	A simple automated system for measuring soil respiration by gas chromatography. <i>Talanta</i> , <b>2010</b> , 81, 849-55	6.2	21

18	Bioenergy by-products as soil amendments? Implications for carbon sequestration and greenhouse gas emissions. <i>GCB Bioenergy</i> , <b>2010</b> , 2, no-no	5.6	25
17	Two-phase olive mill waste composting: enhancement of the composting rate and compost quality by grape stalks addition. <i>Biodegradation</i> , <b>2010</b> , 21, 465-73	4.1	38
16	Plant and animal wastes composting: effects of the N source on process performance. <i>Bioresource Technology</i> , <b>2009</b> , 100, 3097-106	11	38
15	Mineralization dynamics and biochemical properties during initial decomposition of plant and animal residues in soil. <i>Applied Soil Ecology</i> , <b>2009</b> , 41, 118-127	5	104
14	Potential of olive mill waste and compost as biobased pesticides against weeds, fungi, and nematodes. <i>Science of the Total Environment</i> , <b>2008</b> , 399, 11-8	10.2	81
13	Soil application of meat and bone meal. Short-term effects on mineralization dynamics and soil biochemical and microbiological properties. <i>Soil Biology and Biochemistry</i> , <b>2008</b> , 40, 462-474	7.5	65
12	Fluorescein diacetate hydrolysis, respiration and microbial biomass in freshly amended soils. <i>Biology and Fertility of Soils</i> , <b>2008</b> , 44, 885-890	6.1	62
11	The mineralisation of fresh and humified soil organic matter by the soil microbial biomass. <i>Waste Management</i> , <b>2008</b> , 28, 716-22	8.6	42
10	Carbon mineralization dynamics in soils amended with meat meals under laboratory conditions. <i>Waste Management</i> , <b>2008</b> , 28, 707-15	8.6	3
9	Potential of olive mill wastes for soil C sequestration. <i>Waste Management</i> , <b>2008</b> , 28, 767-73	8.6	35
8	Chemical properties and hydrolytic enzyme activities for the characterisation of two-phase olive mill wastes composting. <i>Bioresource Technology</i> , <b>2008</b> , 99, 4255-62	11	80
7	Greenhouse gas emissions and carbon sink capacity of amended soils evaluated under laboratory conditions. <i>Soil Biology and Biochemistry</i> , <b>2007</b> , 39, 1366-1374	7.5	29
6	Duckweed ( <i>Lemna gibba</i> ) growth inhibition bioassay for evaluating the toxicity of olive mill wastes before and during composting. <i>Chemosphere</i> , <b>2007</b> , 68, 1985-91	8.4	27
5	Soil microbial biomass activation by trace amounts of readily available substrate. <i>Biology and Fertility of Soils</i> , <b>2006</b> , 42, 542-549	6.1	98
4	An overview on olive mill wastes and their valorisation methods. <i>Waste Management</i> , <b>2006</b> , 26, 960-9	8.6	522
3	Evaluation of two different aeration systems for composting two-phase olive mill wastes. <i>Process Biochemistry</i> , <b>2006</b> , 41, 616-623	4.8	99
2	Composting Olive Mill Waste and Sheep Manure For Orchard Use. <i>Compost Science and Utilization</i> , <b>2004</b> , 12, 130-136	1.2	38
1	The use of elemental sulphur as organic alternative to control pH during composting of olive mill wastes. <i>Chemosphere</i> , <b>2004</b> , 57, 1099-105	8.4	38

