

Erika Marin-Spiotta

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

7,235
citations

109137

35
h-index

143772

57
g-index

66
all docs

66
docs citations

66
times ranked

10564
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Soil organic carbon storage as a key function of soils - A review of drivers and indicators at various scales. <i>Geoderma</i> , 2019, 333, 149-162. | 2.3 | 944 |
| 2 | Biomass resilience of Neotropical secondary forests. <i>Nature</i> , 2016, 530, 211-214. | 13.7 | 763 |
| 3 | Crop rotational diversity enhances belowground communities and functions in an agroecosystem. <i>Ecology Letters</i> , 2015, 18, 761-771. | 3.0 | 485 |
| 4 | Ecological interpretations of nitrogen isotope ratios of terrestrial plants and soils. <i>Plant and Soil</i> , 2015, 396, 1-26. | 1.8 | 424 |
| 5 | Beyond clay: towards an improved set of variables for predicting soil organic matter content. <i>Biogeochemistry</i> , 2018, 137, 297-306. | 1.7 | 423 |
| 6 | Biodiversity recovery of Neotropical secondary forests. <i>Science Advances</i> , 2019, 5, eaau3114. | 4.7 | 291 |
| 7 | Paradigm shifts in soil organic matter research affect interpretations of aquatic carbon cycling: transcending disciplinary and ecosystem boundaries. <i>Biogeochemistry</i> , 2014, 117, 279-297. | 1.7 | 196 |
| 8 | The database of the <sc>PREDICTS</sc> (Projecting Responses of Ecological Diversity In Changing Tj ETQq0 0 0 rgBT /Overlock 10 T | 0.8 | 186 |
| 9 | Soil organic matter dynamics during 80 years of reforestation of tropical pastures. <i>Global Change Biology</i> , 2009, 15, 1584-1597. | 4.2 | 185 |
| 10 | Microbial community structure varies across soil organic matter aggregate pools during tropical land cover change. <i>Soil Biology and Biochemistry</i> , 2014, 77, 292-303. | 4.2 | 185 |
| 11 | Role of Soil Erosion in Biogeochemical Cycling of Essential Elements: Carbon, Nitrogen, and Phosphorus. <i>Annual Review of Earth and Planetary Sciences</i> , 2018, 46, 521-548. | 4.6 | 184 |
| 12 | The rise of novelty in ecosystems. <i>Ecological Applications</i> , 2015, 25, 2051-2068. | 1.8 | 179 |
| 13 | The <sc>PREDICTS</sc> database: a global database of how local terrestrial biodiversity responds to human impacts. <i>Ecology and Evolution</i> , 2014, 4, 4701-4735. | 0.8 | 178 |
| 14 | Multidimensional tropical forest recovery. <i>Science</i> , 2021, 374, 1370-1376. | 6.0 | 165 |
| 15 | Successional and seasonal variations in soil and litter microbial community structure and function during tropical postagricultural forest regeneration: a multiyear study. <i>Global Change Biology</i> , 2015, 21, 3532-3547. | 4.2 | 156 |
| 16 | Land management: data availability and process understanding for global change studies. <i>Global Change Biology</i> , 2017, 23, 512-533. | 4.2 | 142 |
| 17 | Soil burial contributes to deep soil organic carbon storage. <i>Soil Biology and Biochemistry</i> , 2014, 69, 251-264. | 4.2 | 141 |
| 18 | Tropical reforestation and climate change: beyond carbon. <i>Restoration Ecology</i> , 2015, 23, 337-343. | 1.4 | 127 |

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|----|--|------|-----------|
| 19 | Convergence of soil nitrogen isotopes across global climate gradients. <i>Scientific Reports</i> , 2015, 5, 8280. | 1.6 | 127 |
| 20 | Carbon storage in successional and plantation forest soils: a tropical analysis. <i>Global Ecology and Biogeography</i> , 2013, 22, 105-117. | 2.7 | 123 |
| 21 | Wet and dry tropical forests show opposite successional pathways in wood density but converge over time. <i>Nature Ecology and Evolution</i> , 2019, 3, 928-934. | 3.4 | 120 |
| 22 | Litterfall and Decomposition in Relation to Soil Carbon Pools Along a Secondary Forest Chronosequence in Puerto Rico. <i>Ecosystems</i> , 2008, 11, 701-714. | 1.6 | 119 |
| 23 | Legume abundance along successional and rainfall gradients in Neotropical forests. <i>Nature Ecology and Evolution</i> , 2018, 2, 1104-1111. | 3.4 | 107 |
| 24 | Chemical and mineral control of soil carbon turnover in abandoned tropical pastures. <i>Geoderma</i> , 2008, 143, 49-62. | 2.3 | 105 |
| 25 | Improving understanding of soil organic matter dynamics by triangulating theories, measurements, and models. <i>Biogeochemistry</i> , 2018, 140, 1-13. | 1.7 | 83 |
| 26 | Hostile climates are barriers to diversifying the geosciences. <i>Advances in Geosciences</i> , 0, 53, 117-127. | 12.0 | 83 |
| 27 | Long-term stabilization of deep soil carbon by fire and burial during early Holocene climate change. <i>Nature Geoscience</i> , 2014, 7, 428-432. | 5.4 | 81 |
| 28 | Ecosystem Processes and Biogeochemical Cycles in Secondary Tropical Forest Succession. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2017, 48, 497-519. | 3.8 | 78 |
| 29 | Beyond bulk: Density fractions explain heterogeneity in global soil carbon abundance and persistence. <i>Global Change Biology</i> , 2022, 28, 1178-1196. | 4.2 | 67 |
| 30 | Scientists from historically excluded groups face a hostile obstacle course. <i>Nature Geoscience</i> , 2022, 15, 2-4. | 5.4 | 64 |
| 31 | Hydrologic Connectivity in the High-Elevation Tropics: Heterogeneous Responses to Land Change. <i>BioScience</i> , 2014, 64, 92-104. | 2.2 | 62 |
| 32 | Carbon delivery to deep mineral horizons in Hawaiian rain forest soils. <i>Journal of Geophysical Research</i> , 2011, 116, . | 3.3 | 59 |
| 33 | An actionable anti-racism plan for geoscience organizations. <i>Nature Communications</i> , 2021, 12, 3794. | 5.8 | 55 |
| 34 | Impacts of climate variability on tree demography in second growth tropical forests: the importance of regional context for predicting successional trajectories. <i>Biotropica</i> , 2016, 48, 780-797. | 0.8 | 50 |
| 35 | An open-source database for the synthesis of soil radiocarbon data: International Soil Radiocarbon Database (ISRaD) version 1.0. <i>Earth System Science Data</i> , 2020, 12, 61-76. | 3.7 | 48 |
| 36 | Soil type mediates effects of land use on soil carbon and nitrogen in the Konya Basin, Turkey. <i>Geoderma</i> , 2014, 232-234, 517-527. | 2.3 | 47 |

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|----|---|------|-----------|
| 37 | Trends in Above and Belowground Carbon with Forest Regrowth After Agricultural Abandonment in the Neotropics. , 2008, , 22-72. | | 34 |
| 38 | Functional recovery of secondary tropical forests. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 34 |
| 39 | Managing water services in tropical regions: From land cover proxies to hydrologic fluxes. Ambio, 2015, 44, 367-375. | 2.8 | 32 |
| 40 | Harassment should count as scientific misconduct. Nature, 2018, 557, 141-141. | 13.7 | 29 |
| 41 | Changing Academic Cultures to Respond to Hostile Climates. ACS Symposium Series, 2020, , 109-125. | 0.5 | 27 |
| 42 | Land use legacy effects on structure and composition of subtropical dry forests in St. Croix, U.S. Virgin Islands. Forest Ecology and Management, 2015, 335, 270-280. | 1.4 | 26 |
| 43 | Litter quantity, litter chemistry, and soil texture control changes in soil organic carbon fractions under bioenergy cropping systems of the North Central U.S.. Biogeochemistry, 2019, 143, 313-326. | 1.7 | 23 |
| 44 | The soil and plant biogeochemistry sampling design for The National Ecological Observatory Network. Ecosphere, 2016, 7, e01234. | 1.0 | 21 |
| 45 | Towards diverse representation and inclusion in soil science in the United States. Soil Science Society of America Journal, 2021, 85, 963-974. | 1.2 | 19 |
| 46 | Impact of hydrologically driven hillslope erosion and landslide occurrence on soil organic carbon dynamics in tropical watersheds. Water Resources Research, 2016, 52, 8895-8919. | 1.7 | 18 |
| 47 | Examining intersectionality and inclusivity in geosciences education research: A synthesis of the literature 2008â€“2018. Journal of Geoscience Education, 2019, 67, 505-517. | 0.8 | 18 |
| 48 | Clay and climate are poor predictors of regional-scale soil carbon storage in the US Caribbean. Geoderma, 2019, 354, 113841. | 2.3 | 17 |
| 49 | Soil microclimates influence annual carbon loss via heterotrophic soil respiration in maize and switchgrass bioenergy cropping systems. Agricultural and Forest Meteorology, 2019, 279, 107731. | 1.9 | 16 |
| 50 | Soil carbon management. Developments in Soil Science, 2019, 36, 215-257. | 0.5 | 14 |
| 51 | "Maybe this is just not the place for me:" Gender harassment and discrimination in the geosciences. PLoS ONE, 2022, 17, e0268562. | 1.1 | 14 |
| 52 | Conversion to bioenergy crops alters the amount and age of microbially-respired soil carbon. Soil Biology and Biochemistry, 2019, 128, 35-44. | 4.2 | 11 |
| 53 | Steps to Building a No-Tolerance Culture for Sexual Harassment. Eos, 2016, 97, . | 0.1 | 11 |
| 54 | Strong floristic distinctiveness across Neotropical successional forests. Science Advances, 2022, 8, . | 4.7 | 10 |

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|----|---|-----|-----------|
| 55 | A meta-analysis of tropical land-use change effects on the soil microbiome: Emerging patterns and knowledge gaps. <i>Biotropica</i> , 2021, 53, 738-752. | 0.8 | 9 |
| 56 | Long term effects of intensive biomass harvesting and compaction on the forest soil ecosystem. <i>Soil Biology and Biochemistry</i> , 2019, 137, 1075-72. | 4.2 | 6 |
| 57 | Wet tropical soils and global change. <i>Developments in Soil Science</i> , 2019, 36, 131-169. | 0.5 | 6 |
| 58 | Distinguishing fact from value?. <i>Trends in Ecology and Evolution</i> , 1999, 14, 205-206. | 4.2 | 2 |
| 59 | Leveraging Field-Campaign Networks to Identify Sexual Harassment in Atmospheric Science and Pilot Promising Interventions. <i>Bulletin of the American Meteorological Society</i> , 2021, , 1-32. | 1.7 | 1 |
| 60 | Recovery of Ecosystem Processes: Carbon and Energy Flows in Restored Wetlands, Grasslands, and Forests. , 2016, , 365-394. | | 1 |
| 61 | Organized Oral Session 44. Advances in Biochemical Methods for Studying Organic Matter Dynamics in an Ecological Context. <i>Bulletin of the Ecological Society of America</i> , 2010, 91, 94-99. | 0.2 | 0 |