

## PUBLICATIONS LIST

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### **Peer-reviewed Articles Book Chapters, and Books (\* with students and postdocs)**

201. A. V. Di Vittorio, M. Simmonds, A. Jones, W. L. **Silver**, B. Houlton, M. Torn, M. Almaraz, and P. Nico. 2024. Soil management practices can contribute to net carbon neutrality in California. In press, *Environmental Research Letters*.
- 200.\* Mayer, A., K. J. McFarlane, and W. L. **Silver**. 2024. The effect of repeated hurricanes on the age of organic carbon in humid tropical forest soil. *Global Change Biology* <https://doi.org/10.1111/gcb.17265>.
- 199.\* Almaraz, M., M. Simmonds, F. G. Boudinot, N. Bingham, S. Darshan, S. Khalsa, S. Ostoja, K. Scow, A. Jones, I. Holzer, E. Manaigo, E. Geoghegan, H. Goertzen, and W. L. **Silver**. 2024. Undervaluing soil carbon sequestration potential enables climate inaction. *Global Change Biology* <https://doi.org/10.1111/gcb.17011>.
- 198.\* Anthony, T. L., and W. L. **Silver**. 2023. Hot spots and hot moments of greenhouse gas emissions in agricultural peatlands. *Biogeochemistry* <https://doi.org/10.1007/s10533-023-01095-y>.
197. Zhao, J., S. Weldon, A. Barthelmes, E. Swails, K. Hergoualc'h, Ü. Mander, C. Qiu, J. Connolly, W. L. **Silver**, D. I. Campbell. 2023. Global observation gaps of peatland greenhouse gas balances – needs and obstacles. *Biogeochemistry* <https://doi.org/10.1007/s10533-023-01091-2>
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- 195.\* Pérez, T., S. E. Vergara, and W. L. **Silver**. 2023. Assessing the climate change mitigation potential from food waste composting. *Scientific Reports* <https://doi.org/10.1038/s41598-023-34174-z>.
- 194.\* Anthony, T. L., D. J. Szutu, J. G. Verfaillie, D. D. Baldocchi, and W. L. **Silver**. 2023. Carbon-sink potential of continuous alfalfa agriculture lowered by short-term nitrous oxide emission events. *Nature Communications* <https://doi.org/10.1038/s41467-023-37391-2>.
- 193.\* Hendricks-Franco, L., S. L. Stephens, W. L. **Silver**, and W. P. Sousa. 2023. Removal of N-fixing vs. non-N-fixing herbs in post-fire chaparral: competition and contributions to soil N and C cycling. *Ecosphere* <https://doi.org/10.1002/ecs2.4607>.
- 192.\* Almaraz, M., P. M. Groffman, W. L. **Silver**, S. J. Hall, Y. Lin, C. O'Connell. 2023. Dinitrogen emissions dominate nitrogen gas emissions from soils with low oxygen availability in a moist tropical forest. *Journal of Geophysical Research – Biogeosciences*, DOI.org/10.1029/2022JG007210.
- 191.\* Kutos, S. E. Stricker, A. Cooper, J. Creque, M. Machmuller, R. Ryals, M. E. Kroeger, and W. L. **Silver**. 2023. Utilizing compost to enhance carbon sequestration in rangelands. *Journal of Soil and Water Conservation* DOI: <https://doi.org/10.2489/jswc.2023.00072>.
- 190.\* Pérez, T., **Silver**, W.L., Mayer, A. and A. Jones. 2022. Nature's contributions to people: The role of soils in food production. In *Thinking about science in an alternative way: Decolonial proposals and challenges for a sovereign Venezuela (Thinking as a Country Collection)*. Herrera, F. F., Lew, D. and Caruci, N. Eds. Mincyt Editions. ISBN:

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182. \*Aoyama, L., J. W. Bartolome, L. Silva, and W. L. **Silver**. 2022. A case study using the Ecological Site Descriptions to assess soil organic matter and soil carbon stocks on Tejon Ranch. *California Agriculture* <https://doi.org/10.3733/ca.2022a0007>.
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180. \*Lin, Y., A. Gross, and W.L. **Silver**. 2022. Low Redox Decreases Potential Phosphorus Limitation on Soil Biogeochemical Cycling Along a Tropical Rainfall Gradient. *Ecosystems*, doi.org/10.1007/s10021-021-00662-4.
179. \*Anthony, T. L. and W. L. **Silver** 2021. Hot moments drive extreme nitrous oxide and methane emissions from agricultural peatlands. *Global Change Biology* doi.org/10.1111/gcb.15802.
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174. Smith, P, S. Keesstra, W. L. **Silver**, T. K. Adhya, G. B. De Deyn, L. Carvalheiro, D. Giltrap, P. Renforth, K. Cheng, B. Sarker, P. M. Saco, K. Scow, J. Smith, J. Morel, S. Thiele-Bruhn and P. McElwee. 2021. Soil-derived Nature's Contributions to People and their contribution to the UN Sustainable Development Goals. *Philosophical Transactions of the Royal Society B*. doi.org/10.1098/rstb.2020.0185.
- 173.\* Valach, A.C., K. Kasak, K.S. Hemes, T.L. Anthony, I. Dronova, S. Taddeo, W.L. **Silver**, D. Szutu, J. Verfaillie, and D. Baldocchi. 2021. Productive wetlands restored for carbon sequestration quickly become net CO<sub>2</sub> sinks with site-level factors driving uptake variability. *PLOS ONE* doi.org/10.1371/journal.pone.0248398
- 172.\*Lin, Y., A. N. Campbell, A. Bhattacharyya, N. DiDonato, A. M. Thompson, M. M. Tfaily, P. S. Nico, W. L. **Silver**<sup>#</sup>, and J. Pett-Ridge<sup>#</sup>. 2021. Differential effects of redox conditions on the decomposition of litter and soil organic matter. *Biogeochemistry Letters*. <https://doi.org/10.1007/s10533-021-00790-y>. <sup>#</sup>co-senior authors,
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169. Billings, S. A., K. Lajtha, A. Malhotra, A. A. Berhe, M.-A. de Graaff, S. Earl, J. Fraterrigo, K. Georgiou, S. Grandy, S. E. Hobbie, J. Moore, K. Nadelhoffer, D. Pierson, C. Rasmussen, W. L. **Silver**, B. Sulman, S. Weintraub, W. Wieder. 2021. Soil organic carbon is not just for soil scientists: Measurement recommendations for diverse practitioners. *Ecological Applications*, doi.org/10.1002/eap.2290. **\*Most downloaded paper in 2021**
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