

Special Issue

Organo-Mineral Interactions: The Role of Biotic and Abiotic Controls on the Dynamics and Storage of C in Soil

Message from the Guest Editors

Organo-mineral interactions are recognized as a key factor in stabilizing organic matter against biological decomposition in soils. They thus are essential to our understanding of soil organic matter dynamics and why, where, and for how long C is stored in soils. We encourage submissions of papers investigating any of the above-cited topics, including the time dependence of organo-mineral associations dynamics, conceptual, analogic or numerical organo-mineral associations modeling, the nano-scale characterization of organo-mineral interactions through high-resolution imaging microscopies and spectroscopies, the impact of plant C input, the role of soil fauna and microorganisms, as well as organo-mineral interactions for C storage issues in any type of ecosystem.

- Soil C storage
- Soil organic matter
- Organo-mineral interactions
- Short range order minerals
- Mineral weathering
- Stabilization/destabilization
- Carbon residence time
- Microbial activity
- Root exudates
- Plant litter
- Soil fauna

Guest Editors

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Deadline for manuscript submissions

closed (30 September 2019)



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About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

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JCR - Q2 (Soil Science) / CiteScore - Q1 (Earth-Surface Processes)

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 31.6 days after submission; acceptance to publication is undertaken in 4.6 days (median values for papers published in this journal in the first half of 2025).