



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

Guest Editors:

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Deadline for manuscript
submissions:
closed (30 September 2019)

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

