

**Call for papers
thematic issue**

European Journal of

**Soil
Science**

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**Biological and physicochemical processes and control of
soil organic matter stabilization and turnover**

**Soil organisms in their environment - links
between biology, chemistry and physics**



Molecular methods in soil biology - perspectives and limitations of their use in organic matter research

Linking community diversity to the function of soil organisms in organic matter cycling

Microbial-faunal interactions and their contribution to the stabilization and turnover of organic matter

**Molecular and isotopic (^{13}C , ^{14}C) signatures of
soil organic matter**

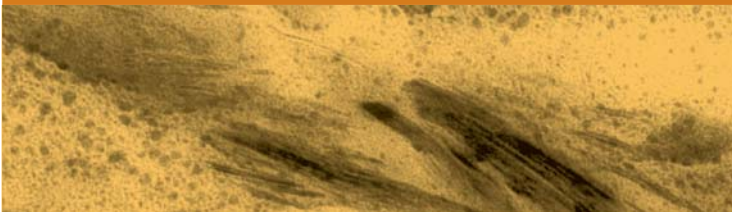


New techniques for the characterization of SOM composition (C, N, P, S)

Measuring the turnover of organic molecules in soils: Signatures of diagnostic SOM fractions and molecules

Where, how large and what is the stable C pool in soils?

**Soil architecture and mineral surface controls
on soil organic matter turnover**



Soil microhabitats: regulating stabilization and turnover of SOM at the scale of decomposers

Stabilization of OM by minerals: adsorption, entrapment and complexation

**Integrating processes, technologies and
predictions of carbon sequestration in soils**



SOM as a control and buffer of carbon cycling in the biosphere: kinetic pools and diagnostic molecular fractions

Methods and technologies of C sequestration in soils

Mechanistic models for SOM turnover

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