

Soil systems: Analytical methods for integrating the chemical, biophysical interface in soils

Literature meeting I

Course task: Assessment whether a soil system view is critical to own scientific work

9th of November, 9:00 – 12:00

zoom meeting: <https://slu-se.zoom.us/j/63328043059>

passcode: 880713

Importance of soil system sciences for ecosystem services

- How does your own research fit into a soil system approach?
- How can you relate your own research to ecosystem services and functions?
- Read through the papers and summarize one of them (your own choice)
- Do you have any specific questions regarding the papers?

Literature list

Bach, EM, Ramirez, KS, Fraser, TD, Wall, DH (2020). Soil biodiversity integrates solutions for a sustainable future. *Sustainability*, **12**, 2662

Bardgett, RD, van der Putten WH (2014) Belowground biodiversity and ecosystem functioning. *Nature*, **515**, 505 – 511

Buenemann, EK, Bongiorno, G, Bai, Z, Creamer, RE, De Deyn G, de Goede, R, Fleskens, L, Geissen, V, Kuyper, TW, Mäder, P, Pulleman, M, Sukkel, W, van Groenigen, JW, Brussaard L (2018) Soil quality – A critical review. *Soil Biology and Biochemistry*, **120**, 105 – 125

Patzel, N, Sticher, H, Karlen, DL (2000) Soil fertility – Phenomenon and concept. *Journal of Plant Nutrition and Soil Science*, **163**, 129 – 142

Vogel, H-J, Eberhardt, E, Franko, U, Land, B, Liess, M, Weller, U, Wiesmeier, M, Wollschläger, U (2019) Quantitative evaluation of soil functions: potential and state. *Frontiers in Environmental Science*, **7**, 164