

### Dr. Daniel Puppe

**Position:** Researcher in the working group "Silicon Biogeochemistry",  
Research Area 1 "Landscape Functioning"



### Academic education and scientific degrees

2010 – 2015      Doctorate studies, BTU Cottbus-Senftenberg  
2003 – 2010      Diploma in Biology, TU Brunswick

### Professional experience

Since 2015      Researcher at ZALF

### Research Profile

- Background**
- Silicon (Si) cycling in terrestrial biogeosystems
  - The role of Si in various organisms (biogenic silica)
  - Si-related sustainable agriculture
- Research**
- Crop straw recycling and its role in Si cycling of agricultural plant-soil systems
- Activities**
- Physicochemical properties of biogenic silica and the potential of phytogenic silica (phytoliths) for carbon sequestration
  - The significance of protozoic silica for global Si cycling

### Functions and memberships

Since 2010      Member of the German Soil Science Society (DBG)  
Since 2010      Member of the German Society for Protozoology (DGP),  
a Constituent Society of the Federation of European  
Protistological Societies (FEPS)  
Since 2022      Review Editor for Frontiers in Environmental Science,  
section Biogeochemical Dynamics  
2022/2023      Guest Editor for Biology, Special Issue "Biodiversity and  
Ecosystem Functioning in Naturally and Experimentally  
Assembled Communities"

### Other

Contributor to the blog of the International Society for Testate Amoeba

Research (ISTAR)

Contributor to sciencetrends.com

Reviewer for various international peer-reviewed journals (e.g., Biogeosciences, Communications Biology, Geoderma, Global Change Biology, Functional Ecology, Frontiers, Plant and Soil, PloS one, Science of the Total Environment)

Reviewer for the Deutsche Forschungsgemeinschaft (DFG)

Reviewer for the National Science Centre (NCN), Poland

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