

Special Issue

Peatlands: Properties, Values and Recent Advances

Message from the Guest Editors

Peatlands have recently risen in prominence in the global narrative due to their large carbon stores and outsized role in the global carbon cycle. Peat soils are the functional foundation and defining feature of peatlands and comprise much of the global peatland carbon stock. While a sophisticated understanding of peat soil properties and function has developed in some regions, there is a significant mismatch between the global distribution of peat soils and our knowledge of them. This Special Issue on peat soils invites contributions from the participants of the International Peatland Society Annual Convention 2025 and related work. Papers will be grouped into three themes. Theme One: the properties and functioning of peat soils at all scales. Theme Two: the value of peat soils to Indigenous, local communities and cultural heritages, industry, nations, or the planet. Theme Three: uses of new technology or conceptual approaches to help us better understand and sustainably manage peat soils.

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Editor-in-Chief

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