Special Issue

Biodiversity Patterns and Ecosystem Functions in Forests

Message from the Guest Editor

This Special Issue explores the intricate relationships between forest biodiversity and the processes that sustain ecological services. Forests host immense biological diversity and underpin critical functions such as carbon sequestration, water regulation, and habitat provision. The Issue seeks research that uncovers spatial and temporal patterns of biodiversity (e.g., species richness, phylogenetic and functional diversity) across forest types (tropical, temperate, boreal, and fragmented landscapes) and links these patterns to ecosystem processes like productivity, nutrient cycling, resilience to disturbances, and climate change adaptation. Contributions may address how biodiversity loss or compositional changes affect forest functioning, including mechanisms driving tree community dynamics, the role of keystone species, and interactions between aboveground and belowground biodiversity. Studies employing observational, experimental, or modeling approaches—at scales ranging from plot-level experiments to landscape or global analyses—are welcome. The goal is to advance our understanding of how forest biodiversity supports ecosystem stability and services.

Guest Editor

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Deadline for manuscript submissions

10 February 2026

Forests

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 4.6

mdpi.com/si/242300

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Forests (ISSN 1999-4907) is an international and cross-disciplinary, scholarly forestry journal. The distinguished editorial board and refereeing process ensures the highest degree of scientific rigor and review of all published articles. Original research articles and timely reviews are released online, with unlimited free access. Our goal is to have *Forests* be recognized as one of the foremost publication outlets for high quality, leading edge research in this broad and diverse field. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global forestry community.

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