Special Issue

Forest Silviculture and Carbon Sequestration in a Changing Climate

Message from the Guest Editor

Increased carbon sequestration by forests is an important element of a comprehensive strategy to reduce net CO2 emissions that contribute to climate change. Silvicultural practices such as site preparation, species and genotype selection, nutrient and residue management, vegetation control, prescribed fire, and thinning have long been used to increase stand productivity and wood biomass, but effects on carbon allocation and storage in understory, forest floor, and mineral soil storage are often neutral or negative. A better understanding of the interaction between silviculture practices, species selection, and soil biogeochemical processes will aid in the development management strategies that maximize carbon sequestration while also maintaining productive capacity and provisioning of other ecosystem services. This Special Issue explores our current understanding of the relationship between silviculture, forest development, and carbon dynamics in managed forests. Suitable manuscripts may include stand scale experimental studies, regional or landscape modeling analyses, meta-analyses, or reviews.

Guest Editor

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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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