Special Issue

Modeling and Monitoring of Grassland Ecosystem Productivity, Carbon Assimilation and Allocation

Message from the Guest Editors

The modeling and monitoring of grassland ecosystem productivity, carbon assimilation and distribution is indispensable for sustainable grassland management and understanding the responses and feedback of grasslands to human activity and climatic change. Grassland ecosystem observation has developed from traditional manual and instrument observation to "Space–Sky–Terrestrial" integrated observation. Grassland ecosystem simulation has developed from simple empirical models to complex mechanism models.

This Special Issue focuses on the observation, modeling, monitoring and management of grassland ecosystem productivity and the carbon cycle and mainly focuses on new methods, theories, technologies, and discovered phenomena, including (1) methods for the observation and monitoring of the key parameters of grassland ecosystems, such as limited to plants, soil, animals, microorganisms, etc; (2) the modeling and monitoring of grassland ecosystem carbon, nitrogen and water cycle processes, including new models, new methods, analyses of influencing factors, etc; and (3) grassland ecosystem management, including but not limited to utilization, restoration, etc.

Guest Editors

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