

Special Issue

Urbanization Effects on Carbon Pools: Spatial Complexity and Temporal Trajectories

Message from the Guest Editor

Land use activities contribute almost one-quarter of anthropogenic greenhouse gas emissions. Traditionally, understanding shifts in carbon stocks due to land-cover and land-use change have primarily focused on agriculture and forestry, but urban areas are increasingly recognized for their role in the carbon dynamics of land. These dynamics are complex, with both carbon hotspots and losses documented in cities. Urbanization encompasses a wide array of land transformation processes, creating an intricate mosaic of land uses and land covers including residential, commercial, industrial, and transportation spaces, modified and designed greenspaces, and remnant native ecosystems. From local place-making to regional development, these land-use decisions have both cumulative and compounding effects on global carbon pools and net emissions, thus affecting the Earth system.

Guest Editor

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Land is the only open access journal covering all aspects of land science, and it is a pioneering platform for publishing on land system science. Our editorial board is comprised of eminent scholars. We publish high quality research on societally relevant, emerging and innovative topics and results in land system research. It is now one of the top land journals with a significant Impact Factor, and has a goal to become the best journal in land in the coming years.

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