Life & Earth Science / Agriculture & Ecology

Invasive alien species are spreading into new ecosystems each year. The impacts caused by these invaders can be swift and devastating. The topic of invasive alien species is large, complex, and globally significant at various scales, exacerbated by the globalization of world economies and increased trade and commerce that has overcome natural barriers to species movement. Invasive alien species threaten global food supplies, water quality and availability, and energy production and delivery. With the added risks associated with global climate change, the global homogenization of plants, animals, and microbes is a major factor in the decline in ecosystem health and ecosystem services worldwide.

This 4-volume work is the first to compile a set of useful material for key topics, to provide a better understanding of the overall global threat of invasive alien species and the diverse array of problems faced around the world, and assemble material that includes potential replicable solutions to overcome these threats. The books also highlight the threat posed by invasive alien species in terms of a global ‘call to action’.

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