

Special Issue

Thermodynamic, Environmental, and Socio- Political Determinants of the Development of Ecological Economics

Message from the Guest Editors

Unlike traditional economics, ecological economics views the economy as an integral part of a larger ecological system, rather than an isolated entity. This represents a fundamental shift in perspective. This transdisciplinary field analyzes the interdependencies between thermodynamic, ecological, and social processes in order to promote sustainable development. The field is fundamentally questioning the mainstream economic paradigm of unlimited growth and is under pressure to provide robust, actionable frameworks for a sustainable and equitable future. Key research imperatives include developing alternative economic models, accurately valuing nature, and navigating the complex interplay between thermodynamic, ecological, and sociopolitical limits and human well-being.

Original research articles and reviews are welcome. Research topics may include (but not limited to) the following:

- Integrating economic models with the laws of thermodynamics;
- Conflict-free cooperation between the global economy and natural systems;
- Climate change and biodiversity loss;
- The problem of waste and the Circular Economy.

Guest Editors

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Editor-in-Chief

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