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Challenges



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Message from the Editor-in-Chief

Addressing scientific advancements and technological processes responding to societal needs are the new frontiers that humankind needs to face and cope with. Discovery and advances in basic research, synthetic biology, biochemistry, material science and biosystems engineering, are providing cutting edge progress and solutions. Scientists from multidiscipline fields are invited to discuss challenging science and research, and technology innovations in *Challenges* aimed towards solving current problematic issues.

Editor-in-Chief

Prof. Dr. Susan Prescott

Aims

Challenges ISSN (2078-1547) provides an advanced forum for publishing content related to planetary health, including ecological, technical, social, economic, cultural, behavioral, theoretical, organizational, philosophical, spiritual, and educational solutions that address the Grand Challenges of the Anthropocene.

Challenges seeks to foster collaboration and knowledge exchange among diverse fields in the sciences and humanities in order to promote planetary health through a holistic understanding of the interdependence of all natural and human systems.

All submissions to *Challenges* are expected to highlight how the work is relevant to planetary health and how the findings directly impact the flourishing of humans and/or the environments on which we depend. Where possible, authors should indicate how their work addresses the sustainable development goals (SDG) of the 2015 United Nations Action Plan for People, Planet, Prosperity, and Peace. All regional studies should be framed within a global context, and all papers should be written with a wide transdisciplinary audience in mind.

Challenges publishes scholarly content including high-quality reviews, novel viewpoints, regular research papers, communications, case/project reports, and Special Issues. This may include subjects and formats typically not found in traditional research journals, such as research proposals, policy studies, descriptions of prototypes, creative and artistic perspectives, and open contests.

Scope

We welcome manuscripts that address the challenges posed to different aspects of planetary health. Topics may include, but are not limited to, the following:

- Human Flourishing (health and wellbeing)—including the interplay between human beings and their physical, emotional, social, economic, and political environments.
- Climate Change and Earth's Biophysical Systems (human interdependence and impact on large scale "planetary boundaries").
- Biodiversity and Natural Ecology (including microbial systems).
- Food Systems.
- Regenerative Economies (including regenerative business and wellbeing economies).
- Indigenous and Traditional Ecological Knowledge.
- Sustainable Energies (with an emphasis on the risks and benefits to human and planetary systems).
- Social Trends and Transitions (including psychology, attitudes, behaviors and movement building).
- Technologies (solutions and risks to planetary health).
- Ethics, Values, and Spirituality (worldviews and mindsets that influence planetary health and justice).
- Planetary Health Education (including knowledge, skills, emotional intelligence, and moral wisdom)
- Governance, Development, Policy, Peace, and Justice (including infrastructure, planning, law, for more livable, fair, and sustainable systems).

Author Benefits

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Thorough Peer-Review

No Space Constraints, No Extra Space or Color Charges

No restriction on the maximum length of the papers, number of figures or colors

Rapid Publication

A first decision is provided to authors approximately 29.3 days after submission; acceptance to publication is undertaken in 4.6 days (median values for papers published in this journal in the first half of 2025)

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