

Critical Paper Published in *Nature Materials* Urges Scientists to Take the Lead in Tackling the Climate Crisis

Sankt Augustin/Kiel/Darmstadt, 06.12.2024 – An alarming paper titled “*Planetary Boundaries and Scientific Societies*” has been published today in the renowned journal **Nature Materials**. Written by a team of prominent researchers, including **Prof. Dr. Jürgen Rödel** of TU Darmstadt, the paper outlines the critical role scientists and scientific societies must play in addressing the escalating climate crisis and achieving global sustainability.

Interdisciplinary Solutions for a Global Challenge

The brief yet impactful paper highlights the **International Alliance of Societies for a Sustainable Future (SfS)**, established by Prof. Dr. Rödel and colleagues, as a global unifying platform for scientific societies to drive decisive action. The authors call for interdisciplinary collaboration and emphasize the urgent need to move beyond academic silos to engage actively with policymakers, institutions, and the public.

“Our education and expertise give us not just the ability, but the responsibility, to lead by example and advocate for transformative changes,” states Prof. Dr. Rödel. “The Alliance of Societies for a Sustainable Future is a vital step in uniting scientific disciplines toward addressing this global crisis.”

A Call for Action and Accountability

The publication underscores the systemic challenges of sustainability, spanning from climate change to biodiversity loss and resource depletion. It advocates for specific actions, including:

- Embedding sustainability into conferences and scientific journals.
- Supporting universities in becoming role models for sustainable operations.
- Combating misinformation and promoting informed public discourse.

The paper is a rallying cry for the scientific community to leverage its networks, expertise, and authority to combat the intertwined crises of planetary boundary transgressions and ensure a sustainable future for all.

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About the Authors

Prof. Dr. Jürgen Rödel (TU Darmstadt), Prof. Dr. Franz Faupel (CAU Kiel), and Dr. Stefan Klein (DGM e. V.) are leading figures in the field of materials science and engineering. Their interdisciplinary expertise brings a unique perspective to this urgent global issue.

Full paper in **Nature Materials**: <https://rdcu.be/d2DZ7>

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