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Science and policy in times of multicrisis and dissent: Issues of framing, authority, evidence
– and political-economic power

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Abstract

Reproducible and trustworthy science: challenges and solutions

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Most scientific research across diverse areas of scientific investigation does not meet standards of reproducibility and transparency. This creates challenges and a large waste of effort and even of trust in science. There are many ongoing efforts to improve the reproducibility, transparency, and eventually the credibility and usefulness of scientific evidence. More than 7 million papers are published every year and the system is largely driven by publish or perish incentives. Proper incentives and research assessment may help in enhancing research design, conduct, and outcomes. Many ideas are proposed in this regard, but few of them have solid evidence.