

## Special Issue

# Re-Examining Argumentation in Science Education: Implications for the Future of Learning, Pedagogy and Research

### Message from the Guest Editors

We invite researchers and practitioners to contribute original research papers and theoretical perspectives that shed light on the role played by argumentation in science education and the implications for classroom environments, pedagogical decisions, professional learning, and research. Topics include but not limited to: The relationship between uncertainty, argumentation, and the epistemic nature of science.

The history of argumentation in school science and examination of the various roles of argumentation in school science.

Human learning and the implications for argumentation in classrooms.

Unpacking the mechanisms underlying both the processes and products of argumentation.

Classroom characteristics that support or inhibit argumentation to learn in science classrooms.

The nature of human agency and the implications for argumentation and classroom pedagogy.

Challenges and opportunities related to enacting dialogic pedagogy.

Information flow in the era of GenAI.

Implications of argumentation in science on GenAI and/or implications of GenAI on argumentative dialogue.

Methodological considerations and/or approaches to studying argumentation in science classrooms.

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### Guest Editors

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### Deadline for manuscript submissions

31 August 2026



## Education Sciences

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## About the Journal

### Message from the Editor-in-Chief

From its first issue in 2011, *Education Sciences* (ISSN 2227-7102) has grown as a scholarly international open access journal. Its aim remains to publish extended full-length research papers that have the scope to substantively address current issues in education. As a member of the Committee on Publication Ethics (COPE), our goal has been to disseminate high quality research. Our publisher, MDPI, takes the responsibility to enforce a rigorous double-blind peer-review together with strict ethical policies and standards to ensure to add high quality scientific works to the field of scholarly publication.

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### Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 26.5 days after submission; acceptance to publication is undertaken in 3.9 days (median values for papers published in this journal in the second half of 2025).