

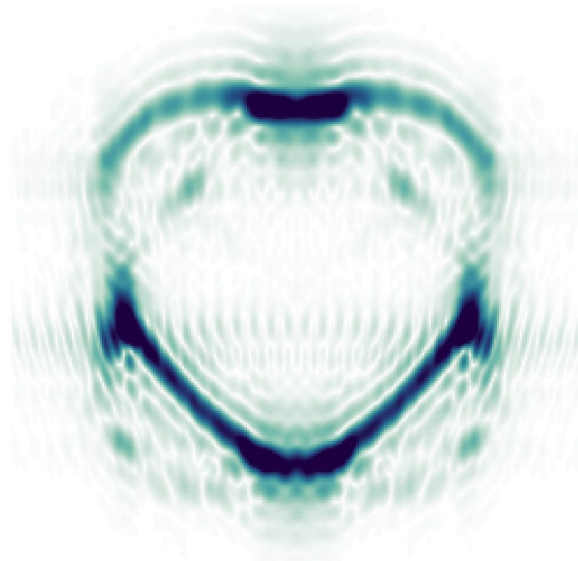
Call for Papers

Special Issue on the topic:

Guided Waves: Physics and Applications

in *Acta Acustica*

(Journal of the European Acoustics Association)



Iso-frequency contour of upward-travelling guided waves in silicon.

Guest Editors

Jens Prager, Bundesanstalt für Materialforschung und -prüfung (BAM), Berlin, Germany

Daniel A. Kiefer, Institut Langevin, CNRS, Paris, France

Background:

The application of acoustic and elastic Guided Waves (GW) offers a vast range of opportunities across materials characterization, non-destructive testing (NDT), electronics and sensing, as well as medical diagnostics. Research in this field ranges from fundamental physics and diverse application scenarios to advanced computational methods for wave propagation analysis and interpretation of measured signals.

The Guest Editors aim to provide a premier platform for publishing groundbreaking research, novel methodologies, and innovative GW applications. This Special Issue is linked to the **2026 Workshop “Guided Ultrasonic Waves: Emerging Methods” (GUWEM 2026)**, which serves as a forum to review the latest research activities. Selected contributions from the workshop are highly encouraged for publication as a full research article in this issue.

Scope of the Special Issue:

We invite submissions that present recent advances in GW research. While we welcome all relevant topics, the primary focus includes:

- **Physical Foundations:** Theoretical findings on wave propagation, dispersion properties, complex media, and fundamental physics.
- **Measurement Science:** Development of dedicated experimental setups.
- **GW devices:** This includes the development of transducers for GW excitation and sensing, piezoelectric BAW/SAW design, seismic surveying, and research using GWs as sensor principle.
- **Computational Methods:** Advanced modelling of wave propagation, computational tools, and sophisticated signal processing for data interpretation.

The Editors encourage all researchers in these fields to submit their findings.

Contacts:

- Jens Prager (jens.prager@bam.de)
- Daniel A. Kiefer (daniel.kiefer@espci.fr)

Submission Guidelines:

All submissions, including original research articles based on GUWEM 2026 presentations, will undergo the same rigorous peer-review process by international experts to ensure the highest scientific standards.

- **Article Types:** We welcome full-length original research articles and letters.
- **Format:** Manuscripts may be submitted in **LaTeX** or **MS Word**.
- **Optional Abstract:** You may submit an abstract directly to the Guest Editors for early feedback on whether your work aligns with the issue's scope.
- **Online Submission:** Please register and submit via the *Acta Acustica* portal, selecting the special issue title: "**Guided Waves: Physics and Applications**".
- **Detailed Instructions:** Please refer to the [Author Guidelines](#).

Important Dates & Publication Policy:

- **Submission Deadline:** 30 November 2026.
- **Review Process:** Manuscripts are handled and published on a **rolling basis** to ensure rapid publication.
- **Diamond Open Access:** Since 1 January 2025, *Acta Acustica* is a fully **Diamond Open Access** journal. This means your research is free for readers, and **no article processing charges (APCs)** apply to authors.