

Special Issue

Advances in Catheter Ablation of Atrial Fibrillation

Message from the Guest Editors

Catheter ablation for atrial fibrillation (AF) is undergoing a transformative evolution, fueled by rapid innovation in energy delivery, mapping technologies, and data integration. This Special Issue invites original research, reviews, and clinical insights that explore the latest technological and procedural advances in the field, with a special focus on pulsed field ablation (PFA) and intelligent mapping strategies.

This Special Issue encourages contributions from clinician-scientists, electrophysiologists, and biomedical engineers working at the intersection of ablation therapy, imaging, AI, and device development. Topics of interest include the following:

- Clinical experience and innovation in PFA (point-by-point and single-shot);
- Advanced mapping techniques for complex arrhythmias;
- AI-driven signal analysis, mapping, or procedural guidance;
- Integration of mapping and energy delivery systems;
- Comparative studies of PFA vs. thermal ablation;
- Translational work bridging engineering solutions with clinical application.

Guest Editors

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Editor-in-Chief

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