

FEMS EUROMAT23

03 - 07 Sep 2023 (Frankfurt)

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FEMS EUROMAT is the most important international congress in materials science and technology in Europe. It continues a successful congress series promoting the transfer of knowledge and the exchange of experience between academia and industry. **Submission deadline: 31 January 2023**

Area E: Energy and Transportation

E07: Anion Exchange Membrane Fuel Cells and Electrolyzers

Anion-exchange membrane fuel cells (AEMFCs) and anion-exchange membrane water electrolyzers (AEMWEs) are attracting increasing attention as promising electrochemical devices for power generation and hydrogen production. Much of the recent progress is due to improvements in materials chemistry, MEAs design, cell modeling, and optimization of the operating conditions of both electrochemical systems. Beyond this short description, the following specific topics must highlight the importance of the subject-matter.

- PGM and PGM-free electrocatalysts for hydrogen and other fuels' oxidation reaction
- PGM and PGM-free electrocatalysts for ORR
- PGM and PGM-free electrocatalysts for OER and HER
- AEMFC and AEMWE modeling
- Polymer electrolyte membranes and ionomers
- CO₂ effects on AEMFCs and AEMWEs
- Durability studies of low and high-temperature AEMFCs and AEMWEs
- Degradation mechanisms, aging, and stability of membranes
- Anion-exchange membranes
- Catalyst supports
- Catalyst stability
- AEMFCs, HT-AEMFCs, AEMWE performance

Symposium Organizer



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