

Candidate Division 3 Sara Cavaliere

Short curriculum vitae

Sara Cavaliere (47 years old) is a Full Professor of Chemistry at the University of Montpellier (France). After a Master degree in Chemistry at the University of Milan (Italy) (2001), a PhD at the Lavoisier Institute of Versailles (France) in collaboration with the French Alternative Energies and Atomic Energy Commission (2006), and postdoctoral fellowships at the Universities of Freiburg (Germany) and Lyon (France), she was appointed as a lecturer at the University of Montpellier in 2009, where she was promoted to Full Professor in 2021. She is performing her research activity at Charles Gerhardt Institute for Molecular Chemistry and Materials in Montpellier (ICGM), focusing on design, synthesis and characterisation of nanostructured core materials for low temperature fuel cells and electrolysers. Her research was supported in 2013 by an ERC Starting Grant, followed by a Proof of Concept Grant in 2019, aiming to develop novel electrodes and membranes for hydrogen energy technologies. In 2017, she was appointed junior member of the Institut Universitaire de France and awarded the CNRS Bronze medal. In 2024 Prof. Cavaliere worked for a semester on electroanalytical chemistry at the University of Nevada, Reno (USA), supported by a Fulbright Scholar Grant. She has mentored 15 PhD students, and she has edited one book and co-authored 5 book chapters, 87 peer-reviewed publications, 2 patents, and 31 invited lectures at international and national meetings. She became a member of the International Society of Electrochemistry (ISE) in 2010 and is currently serving as vice-chair of the Division 3, and recently organised a Symposium at the 75th ISE Annual Meeting.

Brief statement of the candidate

Electrochemistry has been a foundational field for centuries, but it has recently gained renewed attention due to its potential to address the challenges of the energy transition. Therefore, the specific focus of Division 3 on Electrochemical Energy Conversion and Storage is particularly critical today. The role of the International Society of Electrochemistry and Division 3 is to underscore the importance of fundamental research in these highly applied areas in shaping a sustainable future. With this aim, I will work to expand the electrochemical energy conversion and storage community by fostering collaborations with other divisions within ISE as well as externally, with scientists from physics, chemistry, engineering, and materials science for an enhanced and broaden outreach. This will also contribute to attract novel members and enlarge the ISE community.

To ensure the advancement of the field, it is essential to engage scientists at all levels, from early-career researchers to senior experts. In particular, I will support young scientists by encouraging their participation in ISE meetings and application to awards. Additionally, I will involve young researchers in symposium organisation, while promoting initiatives such as regional student meetings and webinars to facilitate the dissemination of their research and engage with the broader electrochemistry community.

A strong commitment to inclusivity and gender equality will guide my efforts. I will advocate for diversity in participation and leadership, acknowledging it as a vital asset for science and society.