

## **Biography**

Dr. Zeng is an Assistant Professor in the Department of Applied Science and Technology (DISAT) at Politecnico di Torino, Italy. Her research primarily focuses on CO<sub>2</sub> and H<sub>2</sub> technologies.

Prior to this role, she was a Senior Postdoctoral Researcher at the Center for Sustainable Future Technologies @POLITO, Istituto Italiano di Tecnologia (IIT), Italy, from 2016 to 2022. During this period, her research concentrated on developing carbon-based and metal oxide-based electrocatalysts for oxygen (O<sub>2</sub>) and carbon dioxide (CO<sub>2</sub>) reduction reactions.

From 2012 to 2016, Dr. Zeng was a Research Fellow at Politecnico di Torino, where she specialized in electrochemistry for fuel cells and Li-air battery applications.

During the career, Dr. Zeng has received the prestigious PhD "Fondazione De Nora" award, conferred by the Society of Italian Chemistry. She has played a pivotal role in five EU and three national research projects, serving as a Work Package leader or participant. Additionally, she has supervised seven master students and six PhD candidates since 2018.

Dr. Zeng has made significant contributions to the scientific community as the first or co-first, corresponding, or last author of 30 peer-reviewed journal articles, and as a co-author of 16 additional papers (Scopus ID 55192730800). Her bibliometric indicators include 1082 citations, an H-index of 21, two patents, 23 conference presentations, six invited talks, and the organization of one symposium at an international conference (MATSUS Fall 24).