

CELEST Member Short Profile



Birgit Esser

Birgit Esser is full professor for Organic Chemistry at Ulm University, Germany, since 2022. She obtained her Ph.D. in 2008 at the University of Heidelberg. After postdoctoral studies at the Massachusetts Institute of Technology as Leopoldina fellow from 2009–2012, she joined the University of Bonn, Germany, as Liebig and later Emmy-Noether junior group leader. From 2015–2021 she was associate professor for Molecular/Organic Functional Materials at the University of Freiburg, Germany. She is co-coordinator of the DFG-funded Priority Program 2248 “Polymer-based Batteries” and spokesperson for Research Unit X of the POLiS Cluster of Excellence.

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Research areas

Research in the Esser Lab focusses on organic electrode materials for next-generation batteries, including post-lithium battery chemistries, hoop-shaped, conjugated π -systems, and small molecule semiconductors. See Website www.esserlab.com for more information.

Lab equipment

Fully equipped organic synthesis lab at Ulm University campus; battery fabrication and characterization lab at POLiS building.

Birgit Esser @ IOC II	Link IOC II	Link lab equipment
www.esserlab.com	https://www.uni-ulm.de/nawi/institut-fuer-organische-chemie-ii-und-neue-materialien/	

Partners