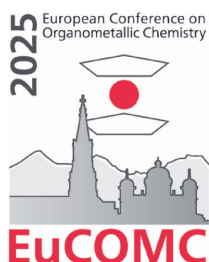


Editorial



We are delighted to present this themed issue of *CHIMIA*, entitled ‘*New Frontiers in Organometallic Chemistry*.’ This issue features a selection of highlights from the research of group leaders working at the forefront of organometallic chemistry in Europe. This discipline of chemistry touches upon many aspects of our everyday lives, finding widespread applications that extend far beyond academic research — including materials science, chemical manufacturing, catalysis, and pharmacology, to name just a few.

In July 2025, Bern hosted the *XXVI European Conference on Organometallic Chemistry (EuCOMC 2025)*, bringing together 285 delegates from over 33 countries to share their passion for organometallic chemistry and discuss the latest developments in the field. The conference featured 85 oral presentations and 180 posters, showcasing a broad spectrum of cutting-edge research. One of the highlights of the event was undoubtedly the presentation of the Fischer–Wilkinson Prize, awarded by the EuChemS Division of Organometallic Chemistry to Odile Eisenstein in recognition of her outstanding contributions to the field.

Building on the momentum generated during the conference, this issue of *CHIMIA* features the work of a selection of contributors who presented their research at EuCOMC 2025. We hope you enjoy this collection of articles, which highlights both the breadth and depth of research in organometallic chemistry, as well as its broad multidisciplinary applications.

Robert Mulvey (University of Strathclyde, UK) uncovers the catalytic potential of alkali-metal dihydropyridinates which can act as hydride surrogates. **Gilles Gasser** (Chimie ParisTech, PSL University, France) explores the use of metal-based photosensitisers as new alternatives for next-generation cancer treatments. Breaking new ground in materials science, **Marta Elena González-Mosquera** (Universidad de Alcalá, Spain) describes recent advances in the use of alkali-metal compounds for the controlled polymerisation of *L*-lactide. **Kay Severin** (EPFL, Switzerland) reports on the applications of *N*-heterocyclic diazoolefins as unique precursors for accessing transition-metal complexes featuring *N*-heterocyclic vinylidene ligands. Towards the development of more sustainable organometallic synthesis, **Joaquín García-Álvarez** (Universidad de Oviedo, Spain) discusses the benefits of using iron-based deep eutectic solvents as an alternative to traditional volatile toxic organic solvents. **Martin Albrecht** (University of Bern, Switzerland) showcases the applications of donor-flexible ligands in homogenous catalysis. Exploring bimetallic cooperation, **Eva Hevia** (University of Bern, Switzerland) assesses the structural and reactivity diversity of alkali-metal nickelates.

As Chairs of EuCOMC 2025, we would like to take this opportunity to express our sincere thanks to the Swiss Chemical Society, and in particular to David Spichiger, Céline Wittwer, and Sarah Schmitz, for their invaluable support and the excellent organization of this event. Special thanks also go to every single participant of this event, who made this conference truly memorable. We would also like to thank Joaquín García-Álvarez and Javier Cerezo for the design of the cover picture of this themed issue of *CHIMIA*.

Best wishes

Martin Albrecht and Eva Hevia
(Co-Chairs of EuCOMC 2025)

The CHIMIA Editorial Board is very grateful to Profs. Martin Albrecht and Eva Hevia for their efforts in organizing this issue on *New Frontiers in Organometallic Chemistry* showcasing the diverse range of applications for Organometallic Chemistry.