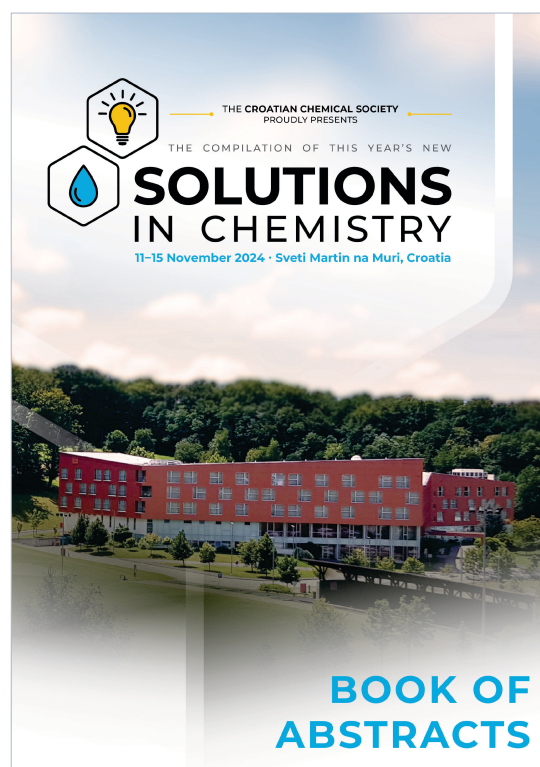


FOREWORD

The second *Solutions in Chemistry* conference was held in Sveti Martin na Muri, Croatia, from 11 to 15 November 2024. As in the first edition, the focus was on the dual meaning of the word “Solutions” in its title: solution as a phase, covering experimental and computational studies of processes taking place in liquid media, and general solutions to chemical problems encountered in academia and industry. The Conference gathered nearly 200 scientists from 20 countries across five continents, representing diverse fields of chemistry. It provided a valuable platform for sharing expertise, particularly supporting young researchers and encouraging their engagement in all areas of chemistry and chemical engineering. The breadth of topics, including supramolecular chemistry, medicinal chemistry and biochemistry, chemical sensors, AI in chemical sciences, chemical education, and personal development, highlighted the importance of collaboration among universities, research institutes, schools, and chemistry-related companies in developing innovative solutions to the challenges faced by the scientific community.

We are pleased to present this special issue of *Croatica Chemica Acta*, featuring selected contributions from *Solutions in Chemistry 2024*. The included papers represent a cross-section of the cutting-edge research presented at the Conference. Their diversity reflects the Conference’s overarching theme “solutions” as a unifying concept in chemistry, while also showcasing recent advances in various branches of the chemical sciences.

We extend our sincere gratitude to all authors who contributed to this special issue, as well as to the reviewers for their dedicated, meticulous, and insightful evaluations, which were essential in ensuring the high quality of the published papers. We also warmly thank all the participants and the members of the SiC2024 Organising Committee for



creating an inspiring environment that fostered fruitful scientific discussions and new collaborations.

It has been our privilege to serve as Guest Editors of this issue of *Croatica Chemica Acta*. We hope that the research presented will be of interest to the Journal’s broad readership and will serve as a valuable resource for those seeking solutions across the diverse areas of fundamental and applied chemistry.

Guest editors

Ernest Meštrović, Vladislav Tomišić, and Andrea Usenik