Introduction to Dalton Transactions themed issue – New Talent: Europe (2022)

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Russell E. Morris,[a] Maarit Karppinen[b] and Paola Ceroni[c]

[a] School of Chemistry, EaStCHEM, University of St Andrews, North Haugh, St Andrews, Fife, UK

[b] Department of Chemistry and Materials Science, Aalto University, FI-00076 Espoo, Finland

[c] Dipartimento di Chimica "G. Ciamician", Università di Bologna, Via Selmi, 2, Bologna, Italy

As guest editors and Europe-based members of the Dalton Transactions editorial board, it is our pleasure to present the 2022 issue of New Talent: Europe. This issue brings together a collection of papers authored by some of the rising stars in European chemistry. Inorganic chemistry is a broad church, with a scope that ranges from fundamental studies of small molecules to the bioinorganic chemistry of large and complex natural products. It overlaps with all the other major disciplines in chemistry: materials, physical and organic, and, as such, it deserves a broad-based, general journal that supports the subject as a whole, and that concentrates solely on the quality of the science, irrespective of fashion. Dalton Transactions strives to be exactly that publication, giving a forum to all members of our community through which they can communicate their science to a like-minded audience. An important part of this overall ethos is the support and encouragement of early career researchers. This New Talent: Europe issue is the latest in a series that has been published over the last decade that highlights younger researchers in Europe, Asia and the Americas. These authors represent the future of our science and our community, and it is our duty to highlight their achievements as much as we can. With this in mind, contributors were selected based on a broad range of topics, such as medicinal inorganic chemistry, catalysis, materials science, and more fundamental questions associated with the structure–reactivity relationship in new compounds. We are greatly indebted to all the young inorganic chemists across Europe who accepted our invitation and contributed to this "New Talent: Europe" issue. This issue contains articles that cover a wide range of inorganic chemistry: from perspective articles on hydrogen evolution using cobalt complexes (https://doi.org/10.1039/D2DT00476C) and tetraazamacrocycles (https://doi.org/ 10.1039/D2DT00597B) to Frontier articles describing encounter complexes in frustrated Lewis pair chemistry (https://doi.org/10.1039/D2DT00655C) and main group cations in cross-couplings (https://doi.org/10.1039/D2DT00871H). The communications and full articles in this issue report an appropriately wide range of chemistry suitable for the varied Dalton Transactions audience. There are new compounds and complexes with interesting fundamental properties (https://doi.org/10.1039/ D2DT01802K, https://doi.org/10.1039/ D2DT00185C, https://doi.org/10.1039/ D2DT00582D, https://doi.org/10.1039/ D1DT03905A, https://doi.org/10.1039/ D1DT03532K and https://doi.org/ 10.1039/D2DT00607C), a group of contributions with interesting photoproperties (https://doi.org/10.1039/ D2DT00014H, https://doi.org/10.1039/ D2DT00889K, https://doi.org/10.1039/ D2DT00581F, https://doi.org/10.1039/ D2DT01157C and https://doi.org/ 10.1039/D2DT00054G) and inorganic materials with different functions (https://doi.org/10.1039/D2DT00829G, https://doi.org/10.1039/D2DT00614F, https://doi.org/10.1039/D2DT00616B, https://doi.org/10.1039/D2DT00779G and https://doi.org/10.1039/D1DT03543F). We hope that you enjoy this themed issue and we express our gratitude to Dr Andrew Shore, Dr Samuel Oldknow and the team in the Editorial Office at Dalton Transactions for supporting us in this endeavour.