

Foreword

The present special issue of the *Display and Imaging* journal provides an overview of the synthesis, analysis of emitters as well as formation and broad characterization of Organic Light Emitting Diodes (OLEDs). The main concept of this special issue was to create a tutorial for young scientists to be able to investigate emitters including highly emissive Thermally Activated Delayed Fluorescence emitters, starting from molecular design up to characterization of the devices.

The research in organic optoelectronics, and especially in OLEDs, is a multidisciplinary work and by combining scientific, as well as technological aspects of material engineering, it aims at understanding the mechanisms involved in the generation of light. Theoretical analysis of physical processes and also modeling of performance of the devices, in conjunction with experimental investigations, give a deep understanding of science which is needed to design and fabricate stable and efficient OLEDs. To succeed with the overall description of the analysis of OLED emitters we divided the special issue into three parts: Synthesis and Properties (1), Characterization of the Compounds (2) and Fabrication and Characterisation of the Devices (3). In every part, authors tried to answers to most common questions in their area of expertise.

We sincerely hope that this special issue will provide a good overview and tutorial in organic electronics research topics and that *Display and Imagine* readers will enjoy reading articles as much as we did. We would like to take this opportunity to thank everybody involved in making this special issue, especially peoples from the EXCILIGHT project (www.excilight.com) funded by European Union's Horizon 2020 research and innovation programme project nr H2020-MSCA-ITN-2015/674990 EXCILIGHT, „Donor-Acceptor light emitting exciplexes as materials for easily to tailor ultra-efficient OLED lighting“.

Guest Editors:
Przemyslaw Data
Gliwice & Durham
Beata Luszczynska
Lodz
Jacek Ulanski
Lodz