

Small Organoboron Emitters

Project description:

In this project we aim at the synthesis of new chromophores and highly emissive chiral (or achiral) small molecules based on boron and other main group elements. The compounds should find application in bioimaging and OLEDs. The successful applicant will be involved in the synthesis of organoboron emitters, development of synthetic approaches to new classes of compounds and characterization of their optical, chiroptical and electrochemical properties. These studies will be supported by the DFT calculations and X-ray crystallography.

Keywords

chirality, fluorescence, functional dyes, organoboron, synthesis

Entry requirements

A master's degree or equivalent in Chemistry or related disciplines; a strong background in organic synthesis, a background in boron and materials chemistry would be an asset; experience in purification and analytical techniques; good writing and speaking skills in English; critical thinking

Location

Institut für Anorganische Chemie and Institute for Sustainable Chemistry & Catalysis with Boron/ Universität Würzburg/ Würzburg

Starting date

01.11.2021

Funding

limited to 3 years

How to apply

Please apply via the [HFA application portal](#).

The Hector Research Career Development Awardees will arrange interviews (via skype or if feasible in-person) with the most promising applicants. The final candidates will be invited for a personal presentation on July 8, 2021 in Bremen (Germany). The final decisions will be announced by August 2021.

Application Deadline

March 31st, 2021

Enquiries

For further details about the project, please contact the Hector Research Career Development Awardee at: agnieszka.nowak-krol@uni-wuerzburg.de

For questions related to making your application, please contact Hector Fellow Academy Office: application@hector-fellow-academy.de or www.hector-fellow-academy.de