

lädt ein

gemeinsam mit der Gesellschaft
Deutscher Chemiker
zum

Vortrag

von Herrn

Prof. Dr. Maik Finze

*Institut für Anorganische Chemie -
Lehrstuhl III;*

*Institut für nachhaltige Chemie &
Katalyse mit Bor (ICB)*

**Julius-Maximilians-
Universität Würzburg**



„From anion development for coordination chemistry and electrolyte design to fluorinated building blocks“

am: 23.04.2026

um: 09:30 Uhr

WO: im Raum A12.232

Gäste sind herzlich willkommen!



Prof. Dr. Maik Finze

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**From anion development for coordination chemistry
and electrolyte design to fluorinated building blocks**

The properties of borate anions, anionic boron clusters, and nitrogen- as well as phosphorus-centered anions can be tuned by the substituents at boron. Fluorine and perfluoroalkyl substituents render them weakly coordinating anions (WCAs) while other substituents such as cyano or ethynyl groups introduce a diverse range of functionalities. These functionalities are of interest for different areas of applications, e.g. as ligands or weakly coordinating anions in catalysis or as electrolyte components for electrochemical devices such as supercapacitors and batteries. The presentation will provide an overview on the design of weakly coordinating anions and anionic N-heterocyclic carbenes (NHCs), the synthesis of stable low-viscous ionic liquids (ILs), and the accessibility of boryl dianions and diborane(6) dianions. The efficient electrochemical synthesis of small fluorinated building blocks and their relevance for anion design will be presented.

