Prof. Michael Bojdys

Faculty of Mathematics and Natural Sciences
Department of Chemistry
Functional Nanomaterials

Expertise
Professor Bojdys research focuses on the design of covalent organic polymers with applications as organic transistor devices and on light-reactive polymers (e.g., Nat. Commun. 2019. DOI: 10.1038/s41467-019-11264-z). He and his team cooperate with established battery and coating companies and with a Berlin SME.

Since 2018, Professor Bojdys has been a member of the "Young Scientists" at the World Economic Forum (WEF) and further serves on their advisory board since 2019.

Scientific Services
- Gas sorption analysis: Quantachrome Instruments Autosorb IQ (probegases: N2, Ar).
- Robotic synthesis & formulation: ChemSpeed ASW 2000
- X-ray diffractometers (Cu and Mo radiation, transmittance, Bragg-Brentano and reflectonomy configuration).

Testimonials
- groupwork focusing on flexible batteries with a Berlin SME
- cooperation on robot-assisted synthesis with Chemspeed Technologies Ltd.
- collaboration with The World Economic Forum (WEF)
- council member at "Young Scientists"

Patents
- WO/2020/216408 - RECHARGEABLE LITHIUM-ION BATTERY ANODE, AND METHOD FOR PRODUCING A RECHARGEABLE LITHIUM-ION BATTERY ANODE
- WO/2016/027042 - TWO-DIMENSIONAL CARBON NITRIDE MATERIAL AND METHOD OF PREPARATION

Förderung
- ERC Proof of Concept Grant (Ultra-high energy storage Li-anode materials - LiAnMAT)
- ERC Starting Grant (Beyond Graphene Materials - BEGMAT)

Topics / Trends
Batteries
Coatings / Surfaces
Sustainability & Ressource Efficiency
Robotics & Artificial Intelligence

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IRIS Adlershof

Industries
Education
Energy, Utilities & Raw Materials

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