Prof. Michael Bojdys

Faculty of Mathematics and Natural Sciences
Department of Chemistry
Functional Nanomaterials


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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

Scientific Institution
IRIS Adlershof

Industries
Education
Energy, Utilities & Raw Materials

https://www.linkedin.com/in/michael-j-bojdys-5994911b3/

Humboldt-Innovation GmbH
Innovation Management

Eleonora Frühwirt
Transfer Manager
+49 30 2093 70769
eleonora.fruehwirt@humboldt-innovation.de

Jan Eggert
Innovation Manager
+49 30 2093 70764
jan.eggert@humboldt-innovation.de

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