EINLADUNG

Hiermit lade ich ein zum öffentlichen Promotionskolloquium von

Herrn M.Sc. Clemens Matt
Physikalische Chemie und Didaktik der Chemie
(Priv.-Doz. Dr. Till Biskup)

am

Freitag, 06. August 2021, 13:00 Uhr s.t.

per Videokonferenz;
Link für MS Teams: https://bit.ly/3za4lQR

Thema der Dissertation:

Electronic Structure and Morphology of Organic Semiconductors and the Impact of Molecular Modifications

Organic semiconductors promise to revolutionize electronic devices and our way to interact with them. However, to fully exploit their potential, we need to understand the structure–function relationship of these materials on a molecular scale. Time resolved electron paramagnetic resonance (TREPR) spectroscopy combined with density-functional theory (DFT) calculations provides highly relevant insights. In a highly systematic manner, electronic structure and morphology of two prototypical polymers has been investigated in great detail. Highlights include identifying the building blocks dominating the electronic structure of the respective materials, separating the impact of alkylation on electronic structure and morphology, the interaction of well-known building blocks and their effect on the charge-transfer character, and the direct excitation of triplet states from the singlet ground state.

Saarbrücken, 22. Juli 2021

Prof. Dr. Christian Motz

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