

Faculty of Chemistry and Food Chemistry, Chair of Molecular Functional Materials

The Chair of Molecular Functional Materials is focused on synthesizing and characterizing 2D layered structures such as intercalated compounds and heterostructures, which emerge as outstanding candidates for many (opto)electronic applications. This research aims to develop the layered structures via wet chemistry, including the electrochemical approach to achieve 2D layered materials bearing novel electronic functions.

Tasks: responsible for designing, synthesizing, and characterizing 2D layered structures, and studying their physics and (opto)- electronic properties.

Requirements: an outstanding university degree and a master's degree in inorganic/organic chemistry, polymer chemistry, or similar; previous experience in 2D layered materials preparation (i.e., heterostructures); very good interpersonal and communication skills; an independent, target- and solution-driven work attitude; inter- and multidisciplinary thinking; fluency in English - written and oral.

If you are interested to join an international, motivated group for developing the materials for the future, please send your application as a single PDF document to:

Dr. Ali Shaygan Nia (Research Group Leader)

Ali.shaygan_nia@tu-dresden.de