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Skills

Laboratory techniques: Anion or cation routine analysis, Electrochemical analysis, HPLC-ICP-MS, UPLC-MS, Gel permeation chromatography (GPC), GC MS, Capillary electrophoresis (CE), Mossbauer Spectroscopy (Ms), Extended x-ray absorption fine structure (EXAFS), TOC/TON, UV-vis, FTIR, XRD, Raman, XPS, BET, SEM, TEM, AFM, TGA, et al.

Research interests

I am interested in the design and synthesis of functional nanomaterials and nanostructures, as well as their energy and environment applications combining with the electrochemical processes. Currently, he is mainly conducting research on the combination of electrochemical techniques with membrane technologies for optimal performance of membrane-based water purification.