

CELEST Member Short Profile



Kerstin Leopold

Since 2011, Kerstin Leopold has been a full professor for Analytical Chemistry at Ulm University and deputy director of the Institute of Analytical and Bioanalytical Chemistry. Before, she was Research Group Leader of Ultratrace Analysis Group at Technical University of Munich (TUM) and Visiting Researcher at School of Geography, Earth and Environmental Sciences, Plymouth University, UK. Her research focus is in trace and ultra-trace analysis of elements, element species, and nanoparticles. Thereby, new analysis methods using Atomic Spectrometry and tailor-made sample preparation techniques are developed following the principles of Green Analytical Chemistry. Research projects always include validation and application to real-world samples coming from interdisciplinary cooperation in environmental, biological, medical and energy research. Kerstin Leopold is PI in DFG-SFB CatalLight (UUm & FSU Jena).



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Research areas

The development of analytical methods for trace and ultra-trace analysis of elements, element species, and nanoparticles is in focus of her research. This includes distribution analysis, element mapping, study of stability, migration, and bioavailability of elements and nanoparticles that are relevant in environmental, biological, medical and energy research and application.

Lab equipment (at MZE and AOC, campus south of KIT)

Atomic spectrometry techniques: such as atomic absorption spectrometry (AAS), total reflection X-ray fluorescence spectrometry (TXRF), micro-X-ray fluorescence spectrometry (μ XRF), atomic fluorescence spectrometry (AFS); sample preparation techniques: such as solid phase extraction techniques (SPE), automated flow injection analysis systems (FIAS)

Kerstin Leopold @ institute	Link institute	Link lab equipment
https://www.uni-ulm.de/en/nawi/iabc/institut/members/	https://www.uni-ulm.de/en/nawi/institute-of-analytical-and-bioanalytical-chemistry/	https://www.uni-ulm.de/en/nawi/institute-of-analytical-and-bioanalytical-chemistry/research/research-group-leopold/research/

Partners

