



GESELLSCHAFT DEUTSCHER CHEMIKER  
ORTSVERBAND SIEGEN

## ***Ankündigung***

Am Dienstag, **25. Juni 2019**, spricht um **16:30 Uhr**  
im Hörsaal AR-F 002, Department Chemie und Biologie

***Prof. Dr. Mathias Wickleder***

***Universität zu Köln***

**Rudolf-Hoppe-Vorlesung**

über das Thema

***„Hot acids! From synthesis under harsh conditions to  
oxoanionic function“***

**Kaffeerunde ab 16 Uhr im Foyer des Hörsaals AR-F 002.**

Alle interessierten Kolleginnen und Kollegen, Mitarbeiterinnen und Mitarbeiter  
und Studierende sind zu diesem Vortrag herzlich eingeladen.  
Gäste sind herzlich willkommen.

Der Ortsverbandsvorsitzende  
PD Dr. Stephan Bäurle  
Tel. 0271 740-4025



**Prof. Dr. Mathias Wickleder**

**Rudolf-Hoppe-Vorlesung**

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## **Hot acids! From synthesis under harsh conditions to oxoanionic function**

Oxoacids are frequently used compounds in chemical processes. Typical examples are sulfuric acid ( $\text{H}_2\text{SO}_4$ ) with a world production of over 200 million tons, and nitric acid ( $\text{HNO}_3$ ) as the key chemical for the production of nitrates. Throughout the last 20 years my group has developed preparative pathways for the synthesis of oxoanionic compounds. Especially reactions under harsh conditions displayed unforeseen reactivity. A large number of interesting compounds emerged from these reactions, displaying interesting properties, for example with respect to their magnetic and spectroscopic behaviour. The presentation will discuss fundamental aspects of oxoanionic compounds. Main emphasis will be put on compounds of the noble metals and the lanthanides.