

## Novel method to measure pH

# Sebastian Chalupczok defended his doctoral thesis

### Congratulations!

Sebastian Chalupczok defended his doctoral thesis about a voltammetric method for pH measurements with proton-conducting functional layers (German original title: “*Untersuchung einer voltammetrischen Methode zur pH-Wert-Messung mit protonenleitenden Funktionsschichten*”) on Thursday, September 29<sup>th</sup>, 2022.

The research work for this dissertation was conducted at the Ostbayerische Technische Hochschule Amberg-Weiden (OTH), Labor für Elektrochemie und Umweltanalytik (Prof. Peter Kurzweil). Prof. Kurzweil also served as the second examiner!

Dr. Chalupczok already published parts of his thesis in peer-reviewed journals.

S. Chalupczok, P. Kurzweil, H. Hartmann, C. Schell:  
The Redox Chemistry of Ruthenium Dioxide: A Cyclic Voltammetry Study, Review and Revision  
*International Journal of Electrochemistry* **2018**, 1273768 (2018), doi: 10.1155/2018/1273768

S. Chalupczok, P. Kurzweil, H. Hartmann:  
Impact of Various Acids and Bases on the Voltammetric Response of Platinum Group Metal Oxides  
*International Journal of Electrochemistry* **2018**, 1697956 (2018), doi: 10.1155/2018/1697956

S. Chalupczok, P. Kurzweil, J. Schottenbauer, C. Schell:  
pH Sensitivity of Screen-Printed Sensors based on amorphous and Crystalline RuO<sub>2</sub> and the Impact of Conducting and inert Binders  
*International Journal of Science and Research* **7**, 419-427 (2018), doi: 10.21275/ART20192493



The evaluation board and the candidate.

From left to right: Prof. Helbig, Prof. Moos, Dr. Chalupczok, Prof. Kurzweil, and Prof. Danzer

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