

Curriculum vitae Sabine Kubicek

Personal Details

Name: Dipl.Ing. Dr. techn. Sabine Kubicek (former Reither)

Date & place of birth: 05.01.1992 in Vienna, Austria

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Education

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| 11/2020 | Rigorosum |
| 09/2015- 08/2018 | Doctoral program at TU Wien, Vienna, Austria
Thesis title: "Deposition Mechanism and Stability of Copper Oxide on Copper" |
| 09/2014- 08/2015 | Master program Technical Chemistry at TU Wien, Vienna, Austria
Thesis title: Automated Evaluation for Corrosion Inhibitor Testing and All Solid State Batteries With Doped Garnet Type Electrolyte $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ " |
| 10/2010- 08/2014 | Bachelor program Technical Chemistry at TU Wien, Vienna, Austria
Thesis title: "Mizellare Extraktion von Betulin mittels ionischer Flüssigkeiten" |

Professional Experience

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| Since 01/2021 | Project assistant at Integrated Process Development Group at TU Wien, Vienna, Austria
Development of an impedimetric biosensor for Fab detection |
| 09/2018 – 12/2020 | Junior Scientist at Kompetenzzentrum für Automobil- und Industrieelektronik (KAI) GmbH, Villach, Austria
Development of alternative processes for an electrochemical deposition process and process scale-up together with cooperation partners, Master student supervision, electropolishing of copper |
| 09/2015 – 08/2018 | Industrial PhD thesis at Kompetenzzentrum für Automobil- und Industrieelektronik (KAI) GmbH, Villach, Austria
Electrolyte and process research with UV-Vis spectroscopy, cyclic voltammetry (CV), electrochemical impedance spectroscopy (EIS), |

electrochemical quartz crystal microbalance (EQCM) and X-ray diffraction (XRD)

08/2011- 09/2011 Internship at SGL Carbon, Meitingen, Germany
Design of Experiment, SixSigma and heat transfer simulation with COMSOL

Carrier Break

02/2019- 03/2020 Parental leave

Publications and Scientific Contributions

- 1) **Sabine Reither**, Werner Artner, Andreas Eder, Silvia Larisegger, Michael Nelhiebel, Christoph Eisenmenger-Sittner and Günter Fafilek (2017). On the In-Situ Grazing Incidence X-ray Diffraction of Electrochemically Formed Thin Films, ECS Trans. 80 1231.
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Patents

- 1) Silvia Larisegger, Michael Nelhiebel, **Sabine Reither**: Semiconductor Device with Copper Structure (US2019304884A1)
 - 2) Günter Fafilek, **Sabine Reither**, Silvia Larisegger: Semiconductor device with Copper Corrosion Inhibitors (US201988563A1)
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Award

Metrohm Young Chemist Award 2018

Languages

German (native)

English (proficient)