

Publikationsliste von PD Dr. Torsten E.M. Staab

Artikel in referierten Zeitschriften und Konferenzproceedings

- [1] D. Petschke and T.E.M. Staab. Update (v1.3) DLTPulsegenerator: A library for the simulation of lifetime spectra based on detector-output pulses. *SoftwareX - in print*, Feb. 2019.
- [2] Danny Petschke, Frank Lotter, and Torsten E.M. Staab. Revisiting the crystal structure of the equilibrium S (Al₂CuMg) phase in Al-Cu-Mg alloys using X-ray absorption spectroscopy (XAFS). *submitted to Scripta Mater.*, Feb. 2019.
- [3] F. Lotter, U. Mühle, M. Elsayed, Alaa M. Ibrahim, T. Schubert, B. Kieback, R. Krause-Rehberg, and T.E.M. Staab. The influence of trace element additions to Al-1.7 at.% Cu alloys: Preservation of quenched-in vacancies and atomistic mechanisms supporting θ' -formation. *submitted to Acta Mater.*, Dec. 2018.
- [4] U. Mühle, M. Löffler, T. Schubert, T.E.M. Staab, R. Krause-Rehberg, and B. Kieback. Optimierung der FIB-Präparation an vielkristallinen Al-Werkstoffen durch Orientierungsbestimmung mittels EBSD. *Practical Metallography*, 56(1):22–33, 2019.
- [5] Danny Petschke, Ricardo Helm, and Torsten E.M. Staab. Data on pure tin by Positron Annihilation Lifetime Spectroscopy (PALS) acquired with a semi-analog/digital setup using DDRS4PALS. *Data in Brief*, 22:16–29, 2019.
- [6] F. Lotter, U. Mühle, M. Elsayed, Alaa M. Ibrahim, T. Schubert, B. Kieback, R. Krause-Rehberg, and T.E.M. Staab. Precipitation behavior in high-purity aluminium alloys with trace elements – the role of quenched-in vacancies. *phys. stat. sol. (a)*, 215(24):1800375, 2018.
- [7] Danny Petschke, Frank Lotter, Elischa Bläss, and Torsten E.M. Staab. Time-resolved X-ray absorption spectroscopy on Al-Cu alloys – from solute copper to stable precipitates. *J. Appl. Crystal.*, 51:1339–1351, 2018.
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- [13] D. Petschke and T.E.M. Staab. Micro structural changes in welded AlCuLi-alloys by positron annihilation spectroscopy, SAXS and DSC. *Mater. Sci. Forum*, 877:387–392, 2017.
- [14] Tahere Ebrahimi Sadrabadi, Saeed Reza Allahkaram, Torsten Staab, and Naser Towhidi. Preparation and characterization of durable micro/nanocapsules for use in self-healing anti-corrosive coatings. *Polymer Science*, 59(3):281–191, 2017.

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