Prof. Dr. Stefano Passerini

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Current positions
Director of the Helmholtz Institute Ulm, KIT, Germany (since 2018)
Head Electrochemistry for Batteries, HIU-KIT, Germany (since 2014)
Professor, Karlsruhe Institute of Technology, Germany (since 2014)

Previous position
Professor, University of Muenster, Germany (since 2010 - 2014)

Scientific degree
PhD in Chemical Sciences University of Rome I, Italy (1993)

Recent research topics	Electrode Materials; Liquid, polymer and solid Electrolytes; Green binders; Li-, Na-, Mg-, Ca- and Zn- batteries; Supercapacitors
Awards, honors, memberships	Research Award of the Electrochemical Society, Inc. Battery Div. (2012) Society of Electrochemistry Fellow (2015) Member of the Leopoldina Academy (since 2019)

Publications (5 most important)

- **X. Gao, A. Mariani,** S. Jeong, **X. Liu**, X. Dou, M Ding, A. Moretti, S. **Passerini**, Prototype rechargeable magnesium batteries using ionic liquid electrolytes *J. Power Sources* (2019) doi:10.1016/j.jpowsour.2019.03.049
- **T. Ates,** M. Keller, J. Kulisch, T. Adermann, **S. Passerini**, Development of an all-solid-state lithium battery by slurry-coating procedures using a sulfidic electrolyte, *Energy Storage Materials* (2019) doi:10.1016/j.ensm.2018.11.011
- **X. Liu**, H. Zhang, D. Geiger, **J. Han**, **A. Varzi**, U. Kaiser, A. Moretti, **S. Passerini**, Calcium vanadate sub-microfibers as highly reversible host cathode material for aqueous zinc-ion batteries, *Chemical Communications* (2019) doi:10.1039/c8cc07243d
- U. Ulissi, S. Ito, S.M. Hosseini, **A. Varzi**, Y. Aihara, **S. Passerini**, High Capacity All-Solid-State Lithium Batteries Enabled by Pyrite-Sulfur Composites, *Advanced Energy Materials* (2018) doi:10.1002/aenm.201801462
- C. Vaalma, D. Buchholz, **M. Weil, S. Passerini**, A cost and resource analysis of sodium-ion batteries, *Nature Reviews Materials* (2018) doi:10.1038/natrevmats.2018.13