

Dr. Andreas Güntner is a lecturer & research team leader at ETH Zürich's Dept. Mechanical and Process Engineering and a research associate at the Univ. Hospital Zürich's Dept. Endocrinology, Diabetes and Clinical Nutrition. His research focuses on the design of molecule-selective chemical sensors for medical diagnostics, air and food quality monitoring and human search & rescue applications. This encompasses the nanoscale engineering of sensing materials and thin films in particular by flame-aerosol technology and their combination to orthogonal sensor arrays. Furthermore, he is interested in the design of filters, sampling technology, portable devices integration and their testing in the applications. His research has been recognized with the *Beiersdorf & EFCE Excellence Award in Product Design and Engineering* by the European Federation of Chemical Engineering and the *GAeF PhD Award* by the Association for Aerosol Research in 2019. Furthermore, he received twice the *ETH Zürich Medal* in 2014 and 2017 for outstanding M.Sc. and Ph.D. theses. His research results have been highlighted >100 times since 2016 in international news outlets.