


**Personal Information**

Full name	Gareth S. Parkinson	
Current position	Asst. Prof.	
Organization	TU Wien	
Country	Austria	

**Short Biography**

**Gareth S. Parkinson** received a masters degree in Physics from the University of Warwick (UK) in 2004, and subsequently completed a PhD in Physics at the same institution under the supervision of Prof. D. P. Woodruff in 2007. That year he moved to Pacific Northwest National Laboratory (USA) and performed postdoctoral research in surface chemistry under the supervision of Dr. Brice Kay and Dr. Zdenek Dohnalek. In 2009, he joined the group of Prof. Ulrike Diebold at Tulane University (USA), and, when the Diebold group moved to TU Wien (Austria) in 2010, Parkinson was employed as a University Assistant (habilitant) and started his own research group. To date, the group has focused on understanding iron oxide surfaces, in particular the (100) surface of magnetite ( $\text{Fe}_3\text{O}_4$ ). This surface undergoes an unusual reconstruction based on an ordered array of subsurface cation vacancies and interstitials, which stabilizes metal adatoms to temperatures as high as 700 K. In 2015 Parkinson was awarded the FWF START prize (€ 1.2M over 6 years) to utilize this remarkable model system to study the mechanisms underlying single atom catalysis, a rapidly emerging field of catalysis research. In the same year he became an Assistant Professor at the TU Wien, the position he currently holds. In total, Parkinson has published 42 papers (including first/last author papers in Science, Nature Materials, Angew. Chem., PRL, ACS Nano, and JACS, and a single author review in Surface Science Reports (2016)), 2 book chapters, and has presented 22 invited talks at international conferences.