# Prof. Ulrich Stimming US-webpage

Professor of Chemistry and Head of School of Chemistry

### Introduction:

Ulrich Stimming is currently Professor of Chemistry and Head of School of Chemistry at Newcastle University. He was a Chair of Technical Physics at Technical University of Munich (TUM), Germany. He was Scientific Advisor and Principal Investigator of TUM CREATE, Singapore.

He is the founder and Editor-in-chief of the scientific journal “*Fuel Cells-From Fundamentals to Systems*”, VCH-Wiley. He is member of various national and international academic advisory committees and served on evaluation panels of the European Research Council (ERC).

He also coordinated for the Association of Leading Technical Universities in Germany (TU9) a research network of a total of 8 universities in electromobility between Germany and China, and was co-director of the Joint “Institute for Advanced Power Sources” of TUM and Tsinghua University from 2010-2014.

### Work Experience:

* 2014-present, Professor and Head of School of Chemistry, Newcastle University, United Kingdom
* 2012-2014, Principal Investigator and Scientific Adviser of TUM CREATE, Singapore
* 2011-2012, Chief Executive Officer (CEO), TUM CREATE, Centre for Electromobility, Singapore
* 2010-2011, Member of the Governing Board, TUM CREATE, Centre for Electromobility, Singapore
* 2010-2014, Carl v. Linde Senior Fellow, Institute for Advanced Study of the Technical University of Munich
* 2005-2008, Chairman of the Board of Directors, Bavarian Center for Applied Energy Research, ZAE Bayern
* 1997-2011, Head of Institute of Division 1, Member of Board of Directors, Bavarian Center for Applied Energy Research, ZAE Bayern, Germany
* 1997-2011, Full Professor (Chair), Department of Physics & Department of Chemistry, Technical University of Munich, Germany
* 1991-1997, Full Professor, Institute of Physical Chemistry, University of Bonn, Germany
* 1991-1997, Head of “Institute of Energy Process Engineering”, Institute Energy Process Engineering, Research Center Jülich (KFA), Germany
* 1983-1991, Assistant, then Associate Professor Chemical Engineering, Columbia University, New York, U.S.A.

### Honors and Awards:

* Fellow of I.S.E., International Society of Electrochemistry, 2011
* Electrochimica Acta Gold Medal, By International Society of Electrochemistry, 2010
* Hellmuth Fischer Medal, By DECHEMA, Germany, 1998

### Publications (Selected):

Approx. 300 publications in scientific journals and books (h index 50+), 12 patents.

* T. Brülle, U. Stimming: *Catalytic activity of platinum nanoparticles on highly boron-doped and 100-oriented epitaxial diamond towards HER and HOR*, Chem. Chem. Phys. 2011, 13, 12883
* L. Wang, U. Stimming, M. Eikerling: *Kinetic model of hydrogen evolution at an Array of Au-supported catalyst nanoparticles*, Electrocatalysis 2010, 1, 60;
* H. Wolfschmidt, C. Baier, S. Gsell, M. Fischer, M Schreck, U. Stimming: *STM, SECPM, AFM and Electrochemistry*, Materials 3, 2010, 4196
* H. Wolfschmidt, D. Weingarth, U. Stimming: *Enhanced reactivity for hydrogen reactions at Pt nanoislands on AU(111)*, CHemPhysChem 11, 2010, 1533
* C. Baier, U. Stimming: *Imaging Single Enzyme Molecules under in-situ Conditions*, Angewandte Chem.Int.Ed. 48, 2009, 5542
* P. Bele, H.Yano, H.Uchida, M.Watanabe, U.Stimming: *STEM Image Analysis Unsing LAT Image Processing – Study on Pt3Co/CB catalysts prepared by nanocapsule method*, Imaging & Microscopy 2009, 11, 34
* H. Wolfschmidt, R. Bußar, U. Stimming: *Charge transfer reactions at nanostructured Au(111) surfaces: influence of the substrate material on electrocatalytic activity*, Journal of Physics: Condensed Matters 2008, 20, 374127

### Education:

* 1979, Ph.D. in Physical Chemistry, Free University of Berlin, Germany
* 1974, Diploma in Chemistry, Free University of Berlin, Germany