



Simon, Ulrich, Prof. Dr. rer. nat.

* 18 October 1963, male

Institut für Anorganische Chemie
RWTH Aachen University, 52074 Aachen

Phone: +49 (0) 241 80 94644

E-mail: ulrich.simon@ac.rwth-aachen.de

Current position: Professor (W3)

University training and degree

1983–1990 Degree in chemistry (*summa cum laude*), thesis in solid state chemistry, Universität Duisburg-Essen

Advanced academic qualifications

1992 Doctorate in inorganic chemistry (*summa cum laude*), Universität Duisburg-Essen

Postgraduate professional career

Since 2018 Dean of the Fakultät für Mathematik, Informatik und Naturwissenschaften, RWTH Aachen University

2012–2016 Chairman of the Senate, RWTH Aachen University

2012 Visiting professor, International Institute for Nanotechnology, Northwestern University, Evanston, USA

Since 2011 Steering committee member of the DFG collaborative research center Nanoswitches (SFB 917)

2008–2010 Dean of the Fakultät für Mathematik, Informatik und Naturwissenschaften, RWTH Aachen University

2007 Visiting professor, International Institute for Nanotechnology, Northwestern University, Evanston, USA

2006–2008 Vice-dean of the Fakultät für Mathematik, Informatik und Naturwissenschaften, RWTH Aachen University

2004–2006 Head of the Department of Chemistry, RWTH Aachen University

2002–2005 Chair of the Interdisciplinary Forum Life Sciences, RWTH Aachen University

since 2000 Chair of Anorganische Chemie und Elektrochemie and director of the Institut für Anorganische Chemie, RWTH Aachen University

1999–2000 Associate professor, Universität Duisburg-Essen

1992–1999 Assistant professor, Universität Duisburg-Essen

Other

- RWTH Fellow award for experienced professors with outstanding research achievements that have significantly contributed to the University's success (2016)
- Member of the DFG collaborative research center Microgels (since 2012)
- Member of the editorial advisory board of the journal Small (since 2012)
- Member of the editorial board of the European Journal of Inorganic Chemistry (2007–2012)
- Elected member of the European Academy Bad Neuenahr/Ahrweiler (since 2003)
- Annual award for postgraduates of the ADUC, awarded by the Association of German University Professors in Chemistry (1998)
- Prize for excellence in a doctoral thesis, Universität Duisburg-Essen (1993)
- Gottschalk-Diederich-Baedeker Prize for outstanding work in the natural sciences and engineering, Universität Duisburg-Essen (1983)

Publications

1. P. Chen, A. Khetan, M. Jabłońska, J. Simböck, M. Muhler, R. Palkovits, H. Pitsch, U. Simon
Local dynamics of copper active sites in zeolite catalysts for selective catalytic reduction of NO_x with NH₃
Appl. Catal. B Environ., 237, 263-272 (2018).
2. P. Chen, M. Jabłońska, P. Weide, T. Caumanns, T. Weirich, M. Muhler, R. Moos, R. Palkovits, U. Simon
Formation and effect of NH₄⁺ intermediates in NH₃-SCR over Fe-ZSM-5 zeolite catalysts
ACS Catal. 6(11), 7696–7700 (2016).
3. S.D.M. Bourone, C. Kaulen, M. Homberger, U. Simon
Directed self-assembly and infrared reflection absorption spectroscopy analysis of amphiphilic and zwitterionic Janus gold nanoparticles
Langmuir 32(4), 954-962 (2016).
4. A.P.H. Gelissen, A. Oppermann, T. Caumanns, P. Hebbeker, S.K. Turnhoff, R. Tiwari, S. Eisold, U. Simon, Y. Lu, J. Mayer, W. Richtering, A. Walther, D. Wöll
3D structures of responsive nanocompartmentalized microgels
Nano Lett. 16(11), 7295–7301 (2016).
5. D.O. Schmidt, S. Hoffmann-Eifert, H. Zhang, C. La Torre, A. Besmehn, M. Noyong, R. Waser, U. Simon
Resistive switching of individual, chemically synthesized TiO₂ nanoparticles
Small 11(48), 6444–6456 (2015).
6. T. Saltzmann, M. Bornhöfft, J. Mayer, U. Simon
Shape without structure: An intriguing formation mechanism in the solvothermal synthesis of the phase-change material Sb₂Te₃
Angew. Chem. Int. Ed. 54(22), 6632–6636 (2015).
7. B. Hauer, T. Saltzmann, U. Simon, T. Taubner
Solvothermally synthesized Sb₂Te₃ platelets show unexpected optical contrasts in mid-infrared near-field scanning microscopy
Nano Lett. 15(5), 2787–2793 (2015).
8. Leifert, Y. Pan, A. Kinkeldey, F. Schiefer, J. Setzler, O. Scheel, H. Lichtenbeld, G. Schmid, W. Wenzel, W. Jahnen-Dechent, U. Simon
Differential hERG ion channel activity of ultrasmall gold nanoparticles
Proc. Natl. Acad. Sci. USA 110(20) 8004–8009 (2013).
9. S. Gutrath, I.M. Oppel, O. Presly, I. Beljakov, V. Meded, W. Wenzel, U. Simon
[Au₁₄(PPh₃)₈(NO₃)₄], discovery of a new class of Au(NO₃)-ligated superatom complexes
Angew. Chem. Int. Ed. Engl. 52(12), 3529–32 (2013).
10. J. Timper, K. Gutmiedl, C. Wirges, J. Broda, M. Noyong, J. Mayer, T. Carell, U. Simon
Surface “click” of DNA followed by directed metallization allows construction of contactable conducting nanostructures
Angew. Chem. Int. Ed. 51(30), 7586–7588 (2012).