Niklas Nilius - Curriculum Vitae

Current Position:	Full Professor in Physics Carl von Ossietzky Universität Oldenburg Institut für Physik D-26111 Oldenburg, Germany Phone: +49-441-798-3152 Email: Niklas.nilius@uni-oldenburg.de
Studies and Degrees:	1993-1997 Studies in Physics, 'Martin-Luther-University', Halle-Wittenberg 1997 Diploma thesis with Prof. H. Neddermeyer 'Low-temperature STM study of the O_2 adsorption on Ru(0001)' 1998-2001 PhD student at Fritz-Haber-Institute, Department of Chemical Physics with Prof. H.-J. Freund 2001 PhD degree from the Humboldt-University Berlin on 'Light emission from single, oxide supported metal clusters in the STM' 2005-2009 Habilitation at the Humboldt-University of Berlin 2009 Venia legendi from the Humboldt-University Berlin
Scientific Vita:	2001-2002 Postdoctoral position at the University of California, Irvine with Prof. W. Ho working on: • Artificial nanostructures built via atom manipulation in the STM • Electronic / vibrational properties of single atoms and molecules 2009 Research Stay at the University of Modena, Italy with Prof. S. Valeri 'Photoelectron diffraction on oxide supported metal particles' 2010-2012 Coordinator of the Max-Planck-Research School 'Complex Surfaces in Materials Science' since 2012 Professor (W2) in Physics at the Carl von Ossietzky University of Oldenburg
Awards:	1994-1997 Scholarship of the Studienstiftung des Deutschen Volkes 2001 Otto-Hahn-Medal of the Max-Planck-Society
Research Interests	Experimental methods: Scanning tunneling microscopy and embedded spectroscopic techniques (luminescence spectroscopy with the STM, conductance spectroscopy and inelastic tunneling spectroscopy) Research Topics: • Preparation and characterization of oxide thin films for applications in heterogeneous catalysis, microelectronics and photovoltaics • Tailoring oxide properties via doping and defect engineering • Structural, electronic and optical properties of individual metal particles • Electron quantization effects in supported metal islands • Molecular adsorption on metal-oxide systems
Publication metrics	158 publications, 5000 citations, h-factor 38 (Web of Science 2019)