

CURRICULUM VITAE

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Education:

1979 PhD in Theoretical Physics, University of Aarhus, Denmark
1976 MSc in Physics and Chemistry, University of Aarhus, Denmark

Professional career:

2014- Senior Fellow, Precourt Institute for Energy, Stanford University
2010- Leland T. Edwards Professor in the School of Engineering, Stanford University
2010- Professor, Departments of Chemical Engineering and Photon Science, Stanford University and SLAC National Accelerator Laboratory
2010- Director, SUNCAT Center for Interface Science and Catalysis, Stanford University and SLAC National Accelerator Laboratory
2010-2014 Co-director, Catalysis for Sustainable Energy Initiative, Technical University of Denmark
2009-2010 Director, Catalysis for Sustainable Energy Initiative, Technical University of Denmark
2006-2010 Director, The Lundbeck Foundation's Center for Atomic-scale Materials Design (CAMD), Technical University of Denmark
2004-2009 Director of the Nano-technology Center (NANO-DTU), Technical University of Denmark
2001-2008 Chair, Danish Center for Scientific Computing (DCSC)
1999 Visiting Professor, Department of Chemistry, University of California, Santa Barbara, CA, USA
1993-2003 Director, Center for Atomic-scale Materials Physics (CAMP), Technical University of Denmark
1992-2010 Professor of theoretical physics, Department of Physics, Technical University of Denmark
1987-1992 Professor by special appointment of the Danish Minister of Research, Laboratory of Applied Physics, Technical University of Denmark
1982-1985 Assistant Professor, Nordita, (Nordic Institute for Theoretical Physics), Copenhagen
1981, 85-87 Scientific Staff, Haldor Topsøe A/S, Lyngby
1979 -1981 Post Doctoral Fellow, IBM T. J. Watson Research Center, Yorktown Heights, New York; Nordita (Nordic Institute for Theoretical Physics), Copenhagen; Århus University

Research:

Research interests in the theoretical description of surfaces, catalysis, materials, and nanostructures. Ca. 550 published papers (cited more than 65,000 times, H-index 128, ISI March 2017), 16 patents or patent applications.

Awards and honors:

- European Inventor Award, European Patent Office, 2016
- Murray Raney Award, Organic Reactions Catalysis Society, 2016
- The Carlsberg Foundation Research Prize, Royal Danish Academy of Science and Letters, 2015
- Honorary Professor of the Dalian Institute of Chemical Physics, Chinese Academy of Sciences, 2015
- Rigmor og Carl Holst-Knudsen's Award, Aarhus University, 2015
- Irving Langmuir Prize in Chemical Physics, American Physical Society, 2015
- Elected Foreign Member of the US National Academy of Engineering, 2014
- Michel Boudart Award for the Advancement of Catalysis, North American Catalysis Society and the European Federation of Catalysis Societies, 2013
- Hagemann Medal, Technical University of Denmark, 2013
- Dr. Honoris Causa, Norwegian University of Science and Technology, Trondheim, Norway, 2012
- Elected Member of Academia Europea
- Giuseppe Parravano Memorial Award for Excellence in Catalysis Research, Michigan Catalysis Society, 2011
- Alwin Mittasch Award, Germany, 2009
- Gerhard Ertl Lecture Award, Berlin, Germany, 2009
- Gabor A. Somorjai Award for Creative Research in Catalysis, American Chemical Society, 2009
- Science of Hydrogen and Energy Award, Switzerland, 2009
- Grundfos Prize, Copenhagen, 2007
- Mulliken Medal, University of Chicago, Illinois, USA, 2007
- Dr. Honoris Causa, Technical University of Eindhoven, The Netherlands, 2006
- The Innovation Prize, DTU, 2005
- Elected Fellow of the American Physical Society, 2003

- Richard A. Glenn Award, American Chemical Society, 2003
- Elected member of the Royal Danish Academy of Science and Letters, 1996
- Villum Kann Rasmussen's Award, Lyngby, 1991
- Danish Physical Society's Prize of 1990
- Samuel Friedman (Rescue) Award, 1989
- Reinholdt W. Jorch's Award, 1987
- Elected member of the Danish Academy of Engineering (ATV), 1987
- Professor by special appointment of the Danish Minister of Research and Education, 1987
- ECOSS prize, Cambridge, UK 1979

Lectureships:

- Berkeley Lectureship, Department of Chemical and Biomolecular Engineering, University of California, Berkeley, 2016
- Zhnag Dayu Lectureship, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, 2015
- Dodge Lectureship, Yale University, 2015
- Bayer Distinguished Lectureship at the Swanson School of Engineering, University of Pittsburgh, 2014
- DGIST Distinguished Lectureship, Daegu Institute of Science and Technology, South Korea, 2014
- Donald L. Katz Lectureship in Chemical Engineering, University of Michigan, 2011.
- Kenneth S. Pitzer Memorial Lectureship, Department of Chemistry, University of California, Berkeley, USA, 2009
- Olaf A. Hougen Visiting Professorship, Department of Chemical and Biological Engineering, University of Wisconsin, Madison, USA, 2007
- Mulliken Lectureship, University of Chicago, Illinois, USA, 2007
- Magister Lectureship, University of Barcelona, Spain, 2004
- Distinguished Catalyst Lectureship, Pacific Northwest National Laboratory, Washington, USA, 2004
- G.C.A. Schuit Lectureship, University of Delaware, 2002
- Ford Distinguished Lectureship, Dearborn, Michigan, 2001
- Gwathmey Distinguished Lectureship, University of Virginia, 1998

Miscellaneous:

- Member of Scientific Advisory Board for Netherlands Center for Multiscale Catalytic Energy Conversion, 2015-
- Member of Scientific Advisory Board for the Max-Planck-Institute for Chemical Energy Conversion, 2014-
- Member of the International Advisory Board of the State Key Laboratory of Catalysis (SKLC), Dalian Institute of Chemical Physics, Chinese Academy of Sciences, 2014-
- Director, Chemical Science Division, SLAC National Accelerator Laboratory, 2013-14
- Member of the Condensed Matter and Materials Research Committee, Board on Physics and Astronomy, National Academies, 2013-16
- Member of Advisory Board, Innovation Center Denmark, Silicon Valley, 2012-
- Member of the Board of Directors, Haldor Topsøe A/S, 2010-
- Member of the Helios SERC External Advisory Council, Lawrence Berkeley National Laboratory, 2009-2011
- Member of the Board of Directors, Topsøe Fuel Cells A/S, 2009-2014
- Member of the Scientific Advisory Board, UniCat, Technische Universität Berlin, Germany, 2008-2012
- Co-chair US National Academies Committee on the Review of the U.S. Department of Energy, Basic Energy Sciences Catalysis Science Program, 2008
- Member of the Scientific Advisory Board of the Center for Nano-technology, University of Duisburg-Essen, Germany, 2007- 2012
- Member of the Advisory Board and Scientific Committee of the State Key Laboratory for Surface Physics (SKLSP), Chinese Academy of Sciences & Division of Surface Physics, Beijing National Lab for Condensed Matter Physics, 2006-
- Member of the International Advisory Board, The Partnership for International Research and Education, University of California, Santa Barbara, USA, 2005-2010
- Co-founder of Amminex A/S, 2005. Amminex A/S develops diesel emission control and energy storage technology (www.amminex.com). Member of Board of Directors 2005-2010.
- Member of the Scientific Advisory Board, Photo-nano Program, Chalmers University of Technology, Sweden, 2004 -2009
- Member of the Science Policy Committee for the Danish Academy of Engineering, 2004 -2007
- Member of the Scientific Advisory Board, Center for Functional Nanostructures, Brookhaven National Laboratory, USA, 2003 - 2005

- Member of the Danish Research Council for the Technical Sciences, 2000-2003
- Member of the Committee for the Niels Bohr Medal 1997 - 2010
- Member of the physics evaluation committee under the Swedish Research Council for the Technical Sciences (TFR), 1993-1998
- Member of Chemistry and Materials Committee, Danish Research Council for the Technical Sciences, 1987-1996
- Member of Fachbeirat der Fritz-Haber-Institut der Max-Planck Gesellschaft, 1986-2004
- Member of the International Advisory Board, Angewandte Chemie, 2014-
- Member of the Editorial Board of Journal of Chemical Physics, 2006-2009
- Member of the Editorial Board of Journal of Molecular Catalysis A: Chemical, 2004 -
- Member of the International Advisory Board of the Physical Chemistry Chemical Physics Journal, 2001-2004
- Member of the Editorial Board of Journal of Catalysis 1997-
- Member of the Editorial Board of Industrial Catalysis News, 1998-1999
- Member of the Editorial Board of Catalysis Letters, 1995-
- Member of the Editorial Board of Surface Science, 1995-1999, 2014-
- Member of the Advisory Editorial Board of Chemical Physics Letters, 1994-1996, 2007-2015
- Member of the Materials Research Society
- Member of the American Chemical Society
- Member of the American Physical Society
- Member of the American Vacuum Society