Jeppe V. Lauritsen, Professor, Ph.D

Personal Data

Born on December 27th 1975, Married, 3 children, Nationality: Danish
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The Lauritsen research group focuses on experimental *surface science and surface physics*, in particular for atomic-scale characterization of materials relevant for *heterogeneous catalysis, electrocatalysis, and energy storage*. I am head of a surface science laboratory that employs state-of-the-art multi-technique approaches to investigate surface chemistry, catalysts, and energy materials.

Employment

2021-	**Professor -** Head of Interface and Catalysis group Interdisciplinary Nanoscience Center, Aarhus University
2008-2021	**Associate Professor** Interdisciplinary Nanoscience Center, Aarhus University
2007-2008	**Assistant Professor** Department of Physics and Astronomy, Aarhus University
	Postdoctoral positions
2003-2007	Department of Physics and Astronomy, Aarhus University Research visit at Ludwig-Maximilians-Universität München (Aug-Oct 2004)
2002-2003	Employed by Haldor Topsøe A/S
	I have taken parental leave three times: 12 weeks in 2006 and 6 weeks in 2008, and 12 weeks in 2011.

University Education

1999-2002	**Ph.D.,** Department of Physics and Astronomy, Aarhus University (November 12, 2002)
1994-1999	**M.Sc**. Materials Science, Department of Physics and Astronomy, Aarhus University

Scientific Activities Summary

- Peer-reviewed papers: 131, Hereof, 11 ACS Nano, 12 in Physical Review Letters, 2 Nanolett, 1 Nature Nanotechnology, 5 Nature Communications, 1 JACS, 1 Angewandte Chemie. Book chapters: 5.
- Citations: >11000 in total (+ ca. 1000/year), H-factor: 55 (Google scholar)/50 (WoS) (including self-citations, May 22)
- >60 invited talks at international conferences, workshops, summerschools and universities.
- Reviewer for international journals, including Science, Phys. Rev. Lett., Nature journals, JACS, Angw. Chemie, Nano Energy, ACS Nano, and >20 more. Reviewer on grant proposals from US, Canada, Norway, Sweden, The Netherlands, Israel, Poland, Germany and on ERC starting/consolidator, EU FP7, and Horizon2020 projects.

Academic Services and Leadership

- Member of Executive Committee of the Interdisciplinary Nanoscience Center, Aarhus University (2014-)
- Member of Executive Committee, Integrated Materials Research Center (iMAT), Aarhus University (from 2017-)
- ERC Starting Grant panel member (Panel PE4) (20/22 and ongoing)
- MAX IV Programme Advisory Committee member (PAC) – Chair of Spectroscopy & Spectromicroscopy
- Project manager and Work-package leader on Innovation Fund Denmark (IFD) projects.

Awards

- Berzelius Award, Swedish Catalysis Society, 2020

- Zhang Dayu Young Investigator Lectureship, Dalian Institute of Chemical Physics, 2019
- Other: Richard A. Glenn Award of the American Chemical Society 2003, Lundbeckfondens Talentpris – 2005, 2006 Grant from the Betty and Valdemar van Hauen Foundation, ERC Starting Investigator Grant 2009 – "OxideSynergy"
- PhD: Morton M. Traum Award of the American Vacuum Society – 2001, Nano-ECOSS Prize - 2002, European Conference on Surface Science, Award of the European Federations of Catalysis Societies (EFCATS) 2003, 2003 PhD award of the Danish Academy of Natural Sciences

Teaching Experience and Supervision

- Supervisor of 25 PhD students (5 currently) and 11 post docs (3 currently) and numerous Master and Bachelor theses.
- Lecturer at iNANO and Dept. of Physics and Astronomy - Surface and Semiconductor Physics (10 ECTS) (20-30 students/year), Materials Physics (5 ECTS) (20 students/year).
- Coordinator of the challenge-track (talent) program (30 ECTS) at the Interdisciplinary Nanoscience Center.
- Member of PhD committee in nanoscience and chairman of outreach and student recruitment activities in nanoscience.
- Opponent/evaluator/promoter on PhD defenses at Copenhagen University, Danish Technical University and at universities in Finland, Sweden, France and The Netherlands.

Recent Research Funding

Principal Investigator (recent):

- Innovation Fund Denmark - Grand Solutions: Project "HyProFuel", (2022-2026) 42 Mkr (main applicant)
- Villum Experiment "Are topological insulators active in electrocatalytic reactions?" 2 Mkr (2021-2023)
- Independent Research Fund Denmark – Thematic call on green solutions "Earth-abundant Metal Oxides for Electrocatalytic Hydrogen Production" (2022-2025), 2.9 Mkr
- Independent Research Fund Denmark – Technology and Production "Metal-sulfide Catalysts for Renewable Jet Fuel Production from Bio-oil" (2021-2024), 2.9 Mkr
- Independent Research Fund Denmark – Technology and Production "Heterogeneous Catalyst for Higher Alcohol Synthesis from Renewable Sources" (2019-2023), 2.9 Mkr
- Independent Research Fund Denmark - Thematic call on green solutions "Electrocatalysis in Renewable Energy Conversion by Heteroatom-doped Carbon Materials" (2020-2024), 6.4 Mkr
- Sabbatical grant, Faculty of Science, Aarhus University (200kkr) (2020-2021)
- Industry collaborations with Haldor Topsøe A/S (DK), Syngaschem BV (NL)