

Curriculum Vitae

Torben René Jensen, Dr. Scient. Professor (ORCID id. 0000-0002-4278-3221)

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Civil status Danish citizen, born 5/9-1966, married 14/5-1994, Children: Anders 15/3-1995, Johanne 29/5-1999 and Frederikke 5/4-2003. *Private*: Brombærhaven 26, DK-7120 Vejle Ø (ph: +45 2272 1486).

Education

- 2014 Dr. Scient, 'Inorganic Nanomaterials for Hydrogen Storage', Faculty of Science and Technology, Aarhus University (Thesis subm. 1. Oct. 2012, degree awarded 7. April 2014).
- 1999 Ph.D. in materials chemistry, SDU, Odense (PhD degree awarded 4. Feb. 1999).
- 1995 Pedagogical education for high school (gymnasium) teachers in chemistry and physics.
- 1993 M. Sc. in Chemistry and Physics, University of Southern Denmark (SDU), Odense.

Job

- 2016- Professor MSO, Department of Chemistry and *iNANO*, Aarhus University.
- 2002-2016 Associate Professor, Department of Chemistry and *iNANO*, Aarhus University.
- 2000-2001 Assistant Professor, Department of Chemistry and *iNANO*, Aarhus University.
- 1998-2000 Projektforsker (post doc), Condensed Matter Physics and Chemistry Dept., Risø.
- 1995-1998 Ph.D. education at Chemistry Dept., SDU, Odense.
- 1994-1995 Adjunkt (assist. prof.) at Rosborg Amtsgymnasium, Vejle.

Awards

- 2017-2020 **Guest Professor**, State Key Laboratory of Advanced Technology for Materials Synthesis and Processing, Wuhan University of Technology, Wuhan, Hubei, China
- 2017-2019 **Guest Professor**, Intl. Research Center for Hydrogen Energy, Kyushu University, Japan.
- 2016- **Adjunct Professor**, Curtin University of Technology, Perth, Australia.
- 2016 *Hydrogen Energy Award* at the 10th Int. Symposium Hydrogen & Energy, Zao, Japan.
- 2005-2007 *Carlsberg-stipend*, CarlsbergFondet.
- 2002-2005 *Steno-stipend*, Danish Research Council.

Leadership

- 2018- Coordinator for SolBat Marie Curie ETN consortium with 21 international partners (Proposal to be subm jan. 2019).
- 2017-2020 Coordinator, FunHy-Neutrons for multi-functional hydrides, 2017-2020. Nordforsk-The Nordic Neutron Science Program, 6.989.343,- NOK. Five partner.
- 2012-2016 Principal Investigator of HyFillFast, Innovation Fond, six partners, Budg 39.391.185,- DKK.
- 2009-2019 Co-investigator in Centre for Materials Crystallography CMC, (DNRF).
- 2006- Scientific expert (2006-) for the International Energy Agency (IEA HIA).
- 2012- Work package leader, *Ecostore* 2013-2017. *Bor4Store* 2012-2015. *FlyHy* 2009-2012.

Administration

- 2014- Department of Chemistry Scientific Management Committee (Ledelsesteam).
- 2013- PhD evaluation board member at iNANO, GSST, AU. Chairman for >25 PhD thesis evaluations at iNANO.
- 2010- External opponent and examination board member for Intl. PhD. Theses (~14).

Research Group: Research Assistant (1), *Post doc*. (2), *Ph.D. stud.* (3), *Master stud.* (1), *Bachelor and project stud.* (1). I have previously supervised 11 post doc., 15 PhD theses, 36 M.Sc., ~70 B.Sc. theses and other individual projects (10-30 ECTS).

Publication record: 280: 242 peer review papers, 16 proceedings and book ch., 22 'other' publications. *Scopus*: 250 Publications, **H = 49**, citations >**7800** (). 2 Patents (submitted).

Google: 540 papers, posters and abstracts, **H = 52**, citations >**9020**, ()

~210 Oral presentations: 99 *Invited*: 57 at international conferences, 22 at Universities, 20 Plenary, keynote etc., 66 invited pop. science & tutorial lectures public, high schools or at summer schools.

Editorial

- 2018- Editorial board member of *Inorganics* (Open Access, peer-reviewed Journal)

- 2018 Guest Editor: Book published by *Inorganics*.
2017 Guest Editor: Special issue of *Int. J. of Hyd. Energy*
2016 Guest Editor: Special issue of *Inorganics*

International relations

- 2017 *Co-organiser* of E-MRS, session C, 2017.
2016 *Organiser, Chair and panel discussion leader* of HydEM2016, AU (85 participants).
2016- *International Steering Committee*, Int. Symposium of Metal-Hydrogen Systems.
2014- *Member of several Scientific Committees* at E-MRS Fall Meetings.
2014 *Co-organiser* of EPDIC14 conference AU, 15-19 June 2014 (~300 participants).

Funding administrated by TRJ (PI)

2017 *FunHy*, **6.9 mio NOK** NordForsk. 2016 *Hyd-EM* symposium / summer school, **59.850,- DKK**, Carlsbergfondet. 2016 TEM plasma-cleaner, **375.000,- DKK**, Carlsbergfondet. 2015-2019, *HyNanoBorN*, **6.480.000 DKK**, DFF-FTP-FP2. 2012-2017 *HyFillFast*, DCSR/EnMi, **21.970.115 DKK**. 2013-2017 *Ecostore*, EU FP7, **636.306 Euro**. 2014-2016 *Mobilix post doc stipendie*, (DFF-FNU) **2.300.000 DKK**. 2012-2015 *Bor4store*, EU, **327.907 Euro**. 2011, *equipment* CarlsbergFondet, **400.000 DKK**. 2009-2012 *FlyHy*, EU FP7, **3.300.000 DKK**. 2009-2011 (FNU) **500.000 DKK**. 2006-2009 (DSF, En-Mi) **2.500.000 DKK**. 2007 (DSF, En-Mi) **400.000 DKK**. 2005-2007 CarlsbergFondet, **1.005.823 DKK**; 2004 (SNF) **700.000 DKK**; 2002-2005 (SNF) **2.091.322 DKK**.

Prices received by my students: The European Young Researchers' Award (EYRA, 2011); M.C. Holst Rejselegat; Aarhus University Research Foundation PhD Price 2012; Danmarks Naturvidenskabelige Akademis Ph.D.-pris 2012 and 2015; Excellent International research cooperation - The Danish Council for Strategic Research Price 2014; Danscatts PhD pris 2016; Poster Price at MH2012 etc.

Teaching experience Lecturer and responsible teacher in *Inorganic Chemistry* (2005-), a course with 2-300 students and 20-25 teaching assistants; *Advanced Inorganic Chemistry* (2010-). I have also thought other courses, *Advanced Inorganic Synthetic Chemistry* (2000-08), *Experimental Materials Chemistry* (5 ECTS), *Experimental Nano Project* (5 ECTS), *Energy generation and storage* (3 ECTS) – the latter four courses are developed by me.

Referee for international scientific journals and research councils:

- 2013- Panel Reviewer for the US DOE Hydrogen and Fuel Cells Program & Vehicle Technologies Annual Merit Review in Washington DC.
- Euroscience Young Researcher's Award (evaluator) 2015.
- Member of evaluation panels: 2009 *Swedish Research Council* (NT-D2), 2011 *Research Council of Norway* (NT-D2), Energy research programme RENERGI.
- *Research proposal reviewer:* US Department of Energy BES, Højteknologifonden, ACS Petroleum Research Fund USA, Dutch research Council, Research Council of Norway, Dutch research Council, Britain Research Council, Swedish Research Council, Swiss National Science Foundation, The Marsden Fund New Zealand.
- 2012-2014 Member of the *Peer Review Panel* for proposals evaluation for the beamlines I11, I15 and I19 at Diamond Light Source, Oxfordshire, UK.
- Reviewer for international scientific journals: *Nature Mater.*; *Angew. Chem. Int. Ed.* **ACS:** *J. Am. Chem. Soc.*, *J. Phys. Chem.*, *Mater. Chem.*, *Inorg. Chem.*, **RSC:** *Chem. Science*, *J. Mater. Chem.*, *Chem. Commun.*, *Chem. Soc. Rev.*, *Energy and Environ. Sci.*, **Others:** *Surf. Sci.*, *Micropor. Mesopor. Mater.*, *J. Solid State Chem.*, *J. Alloys and Comp.*, *Inter. J. Hyd. Ener.*, *J. Appl. Cryst.*

Professional memberships etc.

- Member of American Chemical Society, Danish Chemical Society, The Interdisciplinary Nano Science Centre at AU (*iNANO*), and Centre for Materials Crystallography (*CMC*).
- Member of Partnerskabet for brint og brændselsceller.

Background

Torben R. Jensen (TRJ) obtained a M. Sc. degree in chemistry and physics in 1993 after which he taught at a high-school where he also passed a pedagogical education. In 1995 he went back to SDU to become a PhD student in materials chemistry focusing on synthesis of battery materials and materials characterisation, i.e. diffraction studies at synchrotron facilities. He joined Risø Natl. Lab as a post doc, Oct. 1998, where he changed research topic to biophysics and conducted surface diffraction and reflectivity of lipids and enzymes. Much of the research was conducted at the synchrotron facility Hasylab, Hamburg. After 2 years, Oct. 2000, he joined AU as an Assist. Prof., and was promoted to Research Assoc. Prof. in 2002. Since then he has created a unique and extremely successful research group within energy materials science. The research achievements led to a Doctor of Science degree (D.Sc. in 2014) from the Faculty of Science and Technology at AU. He was awarded for his outstanding research and the discovery of multitudes of new compounds and studies of structure-property relationships with the Science of Hydrogen & Energy prize 2016. He is Guest professor at three universities and has a very large international network. His 124 new publications from 2013 to 2018 all ready received 16.5 citation per paper and 86 % involved international collaboration.