

Anja Bieberle-Hütter, Dr. sc. techn.

Materials Scientist

Nonmetallic Inorganic Materials

Department of Materials

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PERSONAL DATA

Date and Place of Birth: October 18, 1971, Erlangen, Germany

Nationality: German

Marital Status: married, 2 children (2005, 2007)

CURRENT POSITION

since 1/05 **Senior Researcher and Oberassistent** (since 1/09) at Nonmetallic Inorganic Materials, ETH Zurich (Prof. L.J. Gauckler)

EDUCATION

University: 2/97 - 12/00 Dissertation at Nonmetallic Inorganic Materials (Prof. Dr. L. J. Gauckler), ETH Zurich, Switzerland
(Title of Thesis: The Electrochemistry of Solid Oxide Fuel Cell Anodes: Experiments, Modeling, and Simulations)
Degree: **Dr. sc. techn.**

11/91 - 12/96 Study of Materials Science at the Friedrich-Alexander-University Erlangen-Nürnberg, Germany
(Title of Thesis: Switching Behavior of Thin Films for Electrochromic Applications)
Degree: **Dipl.-Ing. (Werkstoffwissenschaften)**

8/94 - 5/95 Integrated Exchange Study at New York State College of Ceramics at Alfred University, Alfred, NY, USA
(Senior Thesis: Preparation and Characterization of Nanocrystalline Yttrium Iron Garnet Ceramics)

School: 9/82 - 7/91 Ohm-Gymnasium, Erlangen, Germany
Degree: **Allgemeine Hochschulreife**

9/78 - 7/82 Michael-Poeschke-Grundschule, Erlangen, Germany

WORK EXPERIENCE

Research and Teaching:

- since 2007 **Co-advisor for PhD** students
- since 03/06 **Lecturer** (Lehrauftrag) for “Inorganic Thin Films” (lecture and practical work) for Master students, Department of Materials, ETH Zurich
- since 01/05 **Project Manager** for multi-university micro-Solid Oxide Fuel Cell projects (ONEBAT), Nonmetallic Inorganic Materials, ETH Zurich
- 6/03 – 10/04 **Postdoctoral Research Associate** at the Crystal Physics & Electroceramics Laboratory, Department of Materials Science & Engineering, Massachusetts Institute of Technology, Cambridge, MA 02139, USA (Prof. H. L. Tuller)
- 2/97 – 4/01 Nonmetallic Inorganic Materials, ETH Zurich, Switzerland: Supervisor for Practical Work of Students, Master, and Bachelor Theses, Lecturer as a Substitute for “Ceramics for Engineers”

Industry: 5/01 – 5/03 **Senior Engineer**, Process Engineering Assembly at Nortel Networks Optical Components Zurich / Bookham Technology, Switzerland

- Internships: 9/95 Materials Analyses of Solid Oxide Fuel Cells; Siemens KWU, Erlangen, Germany
- 8/95 Examination of the Morphology of Fractal TaC Layers on Ti Substrates; Zentralinstitut für Biomedizinische Technik, Erlangen, Germany
- 4/94 Production Procedures; Siemens MED, Erlangen, Germany
- 4/93 Training in Mechanical Skills (drilling, turning, milling, etc); Siemens MED, Erlangen, Germany

AWARDS

- 11/01 HILTI Award for Innovative Research of the Year 2001 (HILTI Corporation, Schaan, Liechtenstein)

GRANTS

- 6/03 - 6/04 Research Grant from the Swiss National Foundation (SNF) (\$ 14'500) and from the Deutsche Forschungsgemeinschaft (DFG) (16'200 Euro)
- 11/91 - 3/96 Scholarship according to the Bayerischen Begabtenförderungsgesetz
- 3/94 - 12/01 Member of the International Student Program of Siemens
- 8/94 - 5/95 Scholarship of the DAAD (Deutscher Akademischer Austauschdienst) for Study Abroad

OTHER

Languages: German mother tongue
 English excellent (spoken as well as written)
 French good

Computer Skills: Operating Systems: Windows, Macintosh, UNIX
Programs: MS Office, MATLAB / SIMULINK, LabView
Programming Languages: Basic, Fortran (basic knowledge)

PUBLICATIONS

15 refereed journal articles (plus 2 in press. 1 submitted)
2 book chapters
19 conference proceedings
>50 conference talks
12 conference posters

CONFERENCE ORGANISATION

9/04 Organisation of MIT – Tohoku “21 COE” Joint Workshop on Nano-
Science in Energy Technology, Massachusetts Institute of Technology,
Cambridge, USA (together with H.L. Tuller and T. Kawada).

8/03 Proceedings Committee of the International Conference on
Electroceramics 2003, Cambridge, USA: Special Issue of the Journal of
Electroceramics 13 (1-3) 2004

REFEREE SERVICES

Solid State Ionics
Journal of Electroceramics
Journal of the Electrochemical Society
International Journal of Hydrogen Energy
Korean Society for Precision Engineering

POTENTIAL REFEREES

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Risoe National Laboratory – Technical University of Denmark

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