

## Curriculum Vitae

### Prof. Dr. Martin Winter



#### Contact Details:

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#### Current positions

- Full Professor, [Institute of Physical Chemistry](#) at University of Münster (WWU)
- [Honorary Chair Professor \(Prof. h.c.\) at National Taiwan University of Science and Technology](#)
- Honorary Chair Professor (Prof. h.c.) at National Cheng-Kung University, Taiwan
- Director of the [Helmholtz-Institute Münster](#) (HI MS) 'Ionics in Energy Storage'
- [Scientific Director of MEET Battery Research Center](#)
- Head of the [Competence Center 'Battery Technology'](#) of the State of North-Rhine-Westphalia (NRW)
- Spokesperson: [German Battery Research](#)

#### University education and previous positions

Since 2016	W3 Full Professor: Chair of Materials Science, Energy and Electrochemistry
Since 2013	W3 Full Professor: Chair of Appl. Mat. Science for Electrochem. Energy Storage & Conversion
2008 – 2012	Endowed W3 Full Professor; Sponsors: Evonik Industries, Rockwood Lithium, Volkswagen AG
2007	Full Professor, Head, Inst. of Chem. Tech. of Inorg. Mat., Tech. University (TU) Graz, Austria
2000 – 2007	Univ.-Prof., Extraordinarius, TU Graz
	Since 2006: Vice-head of institute, responsible for projects and third party funding
1996 – 1999	University Assistant, TU Graz; 04/1999 Habilitation, venia legendi for Applied Inorganic Chemistry and Electrochemistry
1995 – 1996	Post-Doctoral Research Fellow at the Paul-Scherrer-Institute, Switzerland (Prof. Petr Novák)
1993 – 1995	Ph.D. Thesis at the Institute for Inorganic and Analytical Chemistry at WWU Münster (Prof. J. O. Besenhard)
1986 – 1992	Chemistry Studies at WWU Münster

## Scientific output (selected)

- > 450 articles in journals, books and conference proceedings (> 330 in peer-reviewed journals)
- 2016: Among the Top 150 most cited scholars in Energy Research ([Elsevier Scopus](#))
- 2016: 'Highly Cited Researcher' ([Shanghai Ranking](#))
- 2014, 2015, 2016 and 2017: 'Highly Cited Researcher' (ISI, Thomson Reuters, Clarivate Analytics, Web of Science)
- 2008: Among the Top 25 'Highly Cited Authors' in Energy & Fuels (1998 – 2008, ISI, Thomson Reuters, Web of Science)  
H-Indices:           70 (Google Scholar) > 27,000 citations  
                          61 (Web of Science) > 20,000 citations
- 50 patents, patent families and published patent applications
- > 300 invited, tutorial, keynote and plenary presentations
- Conference and symposia organizer/chairman on an (bi) annual basis:
  - Advanced Automotive Conference ([AABC](#)), Symposium Chair (2 – 3 times per year)
  - [Battery Day NRW, Scientific Chairman](#) (with Prof. Sauer, RWTH Aachen)
  - [Advanced Battery Power](#), Scientific Chairman (with Prof. Sauer, RWTH Aachen University)
  - Batterieforum Deutschland, [Chairman of the Scientific Board](#)
  - Status Seminar: Batterie2020 Project Initiative of the Federal Ministry for Education and Research BMBF (spokesperson and chairman)
- Numerous additional conference and symposia organizations. Numerous scientific advisory board positions of conferences, often on a regular basis, e.g.: ABAA, ECS, EVS, IMLB, IBA, ISE, LiBD

## Coordinator/Leadership activities in the past 10 years (selected)

Since 01/2007	> 150 research projects, > 300 partners, grants > € 150 Mio.
Since 12/2017	Coordinator: <a href="#">Nanobat</a> (BMBF)
Since 10/2017	Appointment to the Expert Council for Electro-Mobility of NRW Government
Since 09/2017	Coordinator: <a href="#">Germany-Taiwan Battery Cooperation (BMBF and MoST, Taiwan)</a>
Since 05/2017	Coordinator: <a href="#">GrEEen Batteries Project (State of NRW)</a>
Since 03/2017	Chairman of the International Battery Materials Association (IBA)
Since 06/2016	Head of the <a href="#">Scientific Advisory Board of Battery Research</a> of the German Ministry of Education and Research (BMBF), representing German Battery Research nationally and internationally
Since 06/2016	Vice-President of <a href="#">International Meeting on Lithium Batteries</a> (IMLB)
Since 01/2016	Coordinator of the project 'Benchbatt' (BMBF)
Since 10/2015	Spokesman of the Project Alliance 'Batterie2020' (BMBF, GER)
Since 10/2014	Board member: <a href="#">Battery Division of The Electrochemical Society</a>
Since 03/2014	Board member of the competence network lithium ion batteries, 'KLIB' (≈ 50 industrial and 10 academic members; represented by 12 board members)
Since 05/2013	Head of the scientific advisory board of 'Batterieforum Deutschland'
Since 02/2012	Coordinator of the project 'Insider' (BMBF)
Since 06/2011	Co-Coordinator of the German priority program 'WendeLiB: Materials with novel design for lithium ion batteries' of the German Research Foundation (DFG, SPP 1473)
Since 05/2010	Member of the <a href="#">National Platform E-Mobility</a> (NPE), informing the German chancellor and government on the battery technology progress in Germany.
2009 – 2011	Spokesman of the <a href="#">Competence Alliance North</a> 'Electrochemistry' (BMBF)
2009 - 2013	Spokesman of the Innovation Alliance <a href="#">LiB2015</a> of the Federal Ministry of Education and Research (GER); Coordinator of the Status Seminar; see ' <a href="#">Elektromobilität – das Auto neu entdecken</a> '
12/2008	Coordinator of the Task Force 'Battery Technology' within the National development

2008 – 2013	plan E-mobility, planning the German R&D strategy Chair Elect, Chair and Immediate Past Chair of Division 3 'Electrochemical Energy Conversion and Storage' of the International Society of Electrochemistry (ISE)
Since 2008	Member of the Board of IMLB
2007 – 2011	Coordinator of the EU project <a href="#">LLIBATT</a>
2007 – 2010	Board member of German Chemical Society (GDCh); Division: Electrochemistry
2006 – 2010	President of the IBA
2006 – 2014	Spokesperson and Coordinator of the Project Initiative ' <a href="#">High Power Lithium Batteries</a> ' of the German Research Foundation (PAK177, DFG)
Since 06/2006	Member of the Board of Directors of the IBA

### Reviewer, chair, advisory boards and committees in the past 10 years (selected)

- Active member of the scientific advisory boards of:
  - The Joint Center for Energy Storage Research (JCESR), Energy Hub of the DOE at Argonne (USA),
  - The Swiss Competence Centers for Energy Research (SCCER)
  - [Israel National Center of Electrochemical Propulsion \(INREP\)](#)
  - [Scientific Advisory Board](#) of Germany Battery Research of the BMBF, Germany
  - Energieforschungszentrum Niedersachsen (EFZN), Energy Research Center Lower Saxony, Germany
  - [Enova Science Board for Electro-Mobility, Germany](#)
- Past member of the advisory board of the Fraunhofer Institute ISC in Würzburg (2008 – 2014)
- Reviewer, examples:
  - Energy Frontiers of Research Center Program (EFRC), DOE, USA
  - German Research Foundation (DFG), incl. excellence initiative
  - Swiss Competence Centers of Energy Research (SCCER)
  - National Science Foundation, American Chem. Soc. Petroleum Research Fund (USA)
  - CERC, Canada
  - EPSRC, Set-Up of Faraday Challenge Institute, United Kingdom
  - Taiwanese National Excellence Initiative
  - EU-Research Programs
  - Department of Energy, USA (Review Panel); US National Labs (Chair of Review Panel)
- Frequently: Member and/or chair of (scientific) award committees of The International Society of Electrochemistry (ISE), The Electrochemical Society (ECS) and The International Battery Materials Association (IBA), Award of EES Europe Fair, AABC Bi-annual conferences
- Board Member of Voltabox
- Member of the ECS committees on 'Free Dissemination of Research', 'Interdisciplinary Science and Technology' and 'Free the Science'
- Reviewer for scientist's promotions, (inter-)national reviewer for companies (awards, strategic decisions, due diligence, etc.);
- Referee for leading journals in Materials Science, Energy and Electrochemistry

### Editorial positions, editorial advisory board member

- 2012 – 2014: Editor 'Batteries and Energy Storage', Journal of the Electrochemical Society / ECS Electrochemistry Letters; 2004 – 2011: Associate Editor: Journal of the Electrochemical Society
- Advisory Boards: ACS Applied Energy Materials, Advanced Energy Materials (Founding board member), Journal of Power Sources, Ionics, Energy Storage Materials (Founding board member), Journal of the Electrochemical Society (2004 – 2014), ECS Electrochemistry Letters (2004 – 2014)

## Honors, awards and recognitions (selected)

- 2018 Honorary Chair Professor, National Cheng-Kung University, Taiwan
- 2018 Featured Scientist, Image Brochure, Helmholtz Association
- 2017 [Pregl Lecture](#), National Institute of Chemistry, Ljubljana, Slovenia
- 2017 [Appointment to the National Academy of Science and Engineering \(acatech\)](#)
- 2017 Appointment to the [Expert Council for Electro-Mobility of the NRW Government](#)
- 2017 Highly Cited Researcher ([Clarivate Analytics](#), former ISI, Thomson Reuters)
- 2017 [Honorary Chair Professor \(Prof. h.c.\) at National Taiwan University of Science and Technology](#)
- 2017 Founding [Academic Fellow of AABC](#)
- 2016 [Braunschweig Research Prize](#) for internationally outstanding interdisciplinary research in technical, life and cultural sciences
- 2016 [Plenary](#): 25<sup>th</sup> Anniversary Celebration Li Ion Battery, 216<sup>th</sup> ECS Meeting, Honolulu (HI, USA)
- 2016 Among the 150 most cited scientists in energy research ([Elsevier Scopus](#))
- 2016 MEET Battery Research Center awarded (renewal) as WING [Excellent Battery Center](#) (German Ministry of Education and Research, BMBF)
- 2016 Highly Cited Researcher ([Shanghai Ranking](#))
- 2016 Highly Cited Researcher ([Clarivate Analytics](#), former ISI, Thomson Reuters)
- 2015 Honorary Lifetime Membership of The Electrochemical Society (ECS)
- 2015 Recognized in the [History of the ECS](#)
- 2015 [Carl Wagner Memorial Award](#) of the ECS
- 2015 Highly Cited Researcher (ISI); [World's most influential minds](#)
- 2015 [ECS Battery Research Award](#)
- 2015 Fellow: [International Society of Electrochemistry](#) (ISE)
- 2015 ['Energiewendezeuge'](#) recognized by the World Wildlife Foundation (WWF)
- 2015 [Technology Award](#) of the International Battery Materials Association (IBA)
- 2014 Highly Cited Researcher (ISI); [World's most influential minds](#)
- 2014 [ECS Trading Card](#)
- 2013 MEET awarded by BMBF as [German Electrolyte Hub](#) via the Project '4E'
- 2013 [Fellow of the ECS](#)
- 2012 Lu Jiaxi Lectureship: Xiamen University, China
- 2012 MEET Battery Research Center awarded as WING [Excellent Battery Center](#) (BMBF)
- 2012 MEET recognized as 'Site of Progress' (['Ort des Fortschritts'](#)) by the State of NRW (MIWF)
- 2012 MEET recognized as ['Germany at its Best'](#), by the State of NRW (MWEIMH)
- 2012 MEET awarded with two lighthouse projects ([Lithorec](#) and [Safebatt](#)) of the German National Platform E-Mobility (NPE)
- 2009: Hans L. Merkle Stipend of Bosch AG
- 2008 Among 25 ['Highly Cited Researchers in Energy & Fuels, 1998-2008'](#) (Web of Science)
- 2007 Gordon Lectureship: Tel Aviv University, Israel
- 2004 NATO-CARWC lectureship: Argonne, Chicago (IL, USA)
- 2003 University Lectureship, Kyushu University, Japan
- 2003 [Kardinal Theodor Innitzer-Award](#) in Natural Sciences
- 2002 [ECS Battery Division Technology Award](#)
- 2002 [Josef-Krainer-Award for Chemical Technology](#)
- 2001 Research Award of the IBA
- 1999 Guest Professor at the University of Thessaloniki, Greece
- 1997 Award of the Division of Applied Electrochemistry of the German Chemical Society (Gesellschaft Deutscher Chemiker) for the [best Ph.D. thesis](#) in the 3-year term 1995 – 1997
- 1995 Excellence Award of WWU Münster for an outstanding doctoral exam ('summa cum laude', with highest honors)

## Founding of spin-off institutions

- Founding Director Positions: MEET Battery Research Center & Helmholtz-Institute Münster (HI MS)

## Distinguished lectures (selected)

- 2017: Inaugural Chair Professor Lectureship at Taiwan Tech (NTUST)
- 2017: Keynote: 150<sup>th</sup> Anniversary of German Chemical Society (GDCh)
- 2017: Plenary: 81<sup>st</sup> Meeting of the Germany Society of Physics
- 2017: Plenary: 38<sup>th</sup> Vienna Motor Symposium, Vienna, Austria
- 2016: Keynote: Nordrhein-Westfälische Akademie der Wissenschaften und der Künste
- 2015: Award address: [ECS Battery Research Award](#) and [Carl Wagner Memorial Award](#) of the ECS, 214<sup>th</sup> ECS Meeting, Phoenix (AR, USA)
- 2015: [Plenary: 66<sup>th</sup> ISE Meeting in Taipei](#), Taiwan
- 2015: Award address: IBA Technology Award, Big Island of Hawaii (HI, USA)
- 2014: [Plenary: Gordon Research Conference](#), Ventura, CA, USA
- 2013: Award address: Fellow of the ECS, San Francisco (CA, USA)
- 2012: Keynote: LANXESS China Mobility Day – Sustain. Technologies for China’s Future, Shanghai
- 2012: Keynote: Nordrhein-Westfälische Akademie der Wissenschaften und der Künste
- 2012: Plenary: European Energy Conference, Maastricht, The Netherlands
- 2012: Plenary: 9<sup>th</sup> Symposium: Hybrid and Electric Vehicles, Braunschweig, Germany
- 2012: Plenary: K+S-Group, Kassel, Germany
- 2011: Plenary: German Chemistry Teacher Conference, Klagenfurt, Austria
- 2011: Keynote: 150<sup>th</sup> Anniversary of Bosch AG, Stuttgart, Germany
- 2011: Plenary: WING.DE2011 – Werkstoffe gestalten Zukunft, Berlin, Germany
- 2011: Plenary: 33<sup>rd</sup> International Telecommunications Energy Conference (INTELEC) Amsterdam, The Netherlands
- 2010: Keynote: Evonik Meets Science, Marl, Germany
- 2009: Keynote: Batterie Kolloquium, Audi AG, Ingolstadt, Germany
- 2009: Plenary: Lithium Supply and Markets, Santiago de Chile, Chile
- 2007: Conference “Sun-Day”, Volkswagen, Auto-Uni, Wolfsburg, Germany
- 2007: Keynote: DOE Workshop, Chemical Storage: Batteries, Today and Tomorrow, Boston (MA, USA)
- 2007: Plenary: GDCh-Wissenschaftsforum, Arvedson Schlenk-Symposium, Ulm, Germany
- 2004: Keynote, DOE Symposium on Advanced Anodes for Lithium Ion Batteries, Lawrence Berkeley National Laboratory, USA
- 2003: Plenary: Lithium battery discussion conference, Bordeaux, France
- 2003: Keynote: Taipei International Power Forum and Exhibition, Taipei, Taiwan
- 2002: Award address: ECS Battery Division Research Award, Salt Lake City (UT, USA)
- 2001: Award address: IBA Research Award, Kwa-Maritane, South Africa
- 1999: Plenary: Annual Nagoya International Battery & Power Source Conference, Nagoya, Japan
- 1997: Keynote: Joint International Meeting of the Electrochemical Society and the International Society of Electrochemistry, Paris, France
- 1997: Award address: Ph.D. Thesis Award of the Division of Applied Electrochemistry of the German Chemical Society, Vienna, Austria

## Memberships

American Chemical Society (ACS), International Society of Electrochemistry (ISE), The Electrochemical Society (ECS), Deutsche Bunsen-Gesellschaft für Physikalische Chemie (DBG), Materials Research Society (MRS), Gesellschaft Deutscher Chemiker (GDCh), Deutscher Hochschulverband (DHV), Universitätsgesellschaft Münster