

Curriculum Vitae Prof. Dr. Holger Braunschweig

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Date of birth: November 02, 1961



UNIVERSITY EDUCATION

1988-1990 Dr. rer. nat., RWTH Aachen with Prof. Dr. P. Paetzold
Reaktionen von Iminoboranen mit Carbenkomplexen des Tantal
1983-1988 Undergraduate Studies in Chemistry, RWTH Aachen

EMPLOYMENT

2017-current University Senator, Univ. Würzburg
2016-current Founding Director, Institute for Sustainable Chemistry & Catalysis with Boron, Univ. Würzburg
2012-current Head of Inorganic Chemistry, Univ. Würzburg
2010 Chair offered at the University of Erlangen (declined)
2009-current Professor (chair, W3), Inorganic Chemistry, Univ. Würzburg
2005-2009 Dean/Vice Dean of the Faculty for Chemistry and Pharmacy
2002-2009 Professor (chair, C4) of Inorganic Chemistry Univ. Würzburg
2002 Appointed Reader at Imperial College, London
2000 Appointed Senior Lecturer at Imperial College, London
1998 Appointed Privatdozent at the RWTH Aachen
1997 Habilitation, RWTH Aachen with Prof. Dr. P. Paetzold
1991-1992 Postdoc with Prof. M. F. Lappert, University of Sussex, UK

MAJOR FELLOWSHIPS, HONORS, AWARDS AND DISTINCTIONS

Academy	since 2019	Foreign Fellow, Indian National Science Academy
Memberships:	since 2015	Corresponding Member, North Rhine-Westphalian Academy of Sciences, Humanities and the Arts
	since 2011	Member, Leopoldina – German National Academy of Science
	since 2009	Member, Bavarian Academy of Science
	since 2002	Fellow, Royal Society of Chemistry
Board	2021-2024	Member of the International Editorial Board <i>Angewandte Chemie</i>
Memberships:	2020-2023	Member of the Senate Committee on Research Training Groups (GRKs) of the German Research Foundation (<i>Deutsche Forschungsgemeinschaft</i> , DFG)
	2017-2023	Member of the Evaluation Committee on Research Buildings of the German Council of Science & Humanities (<i>Wissenschaftsrat</i>)
	2017-2021	Member of the Editorial Board (Kuratorium) <i>Angewandte Chemie</i>
	2017-2024	Member of the Editorial Advisory Board <i>Eur. J. Inorg. Chem.</i>
	2017-current	Member of the Editorial Advisory Board <i>Organometallics</i>
	2014-2021	Member of Advisory Board, Leibniz Institute for Catalysis, Rostock
	2012-current	Member of the Editorial Advisory Board, <i>Dalton Transactions</i>
	2008-2016	Member of DFG Review Board for Chemistry (<i>Fachkollegium</i>)
	2007-2010	Member of the <i>Wöhler Vereinigung für Anorganische Chemie</i>
	2006-2009	Member of the Editorial Advisory Board, <i>Organometallics</i>
	2005-current	Member of Advisory Board, IMEBORON conferences
	2004-2019	Member of Advisory Board, EUROBORON conferences
Selected	2024	Eni Prize for Advanced Environmental Solutions
Major	2024	M. Frederick Hawthorne Award of the American Chemical Society
Awards:	2021	Mond-Nyholm Award of the Royal Society of Chemistry

2016	Alfred Stock Memorial Prize of the GDCh (Gesellschaft Deutscher Chemiker)
2014	RSC Main Group Award of the Royal Society of Chemistry
2009	Gottfried Wilhelm Leibniz Prize of the DFG

RESEARCH FUNDING AND SUPPORT

Major grants (above €1M)

DFG Reinhart Kosellek Grant (2018-2022) <i>Polyborylene – Constructing a One-Dimensional Boron Chain with Molecular Tools</i>	1,500,000 €
German Science Council Research Building (2016), <i>Institute for Sustainable Chemistry & Catalysis with Boron</i> , Founding Director Prof. H. Braunschweig, Co-directors Profs. T. B. Marder, M. Finze	19,400,000 €
ERC Advanced Grant 669054 (2016-2021) <i>Boron-Boron Multiple Bonding</i>	2,500,000 €
ERC Advanced Grant 267155 (2011-2016) <i>The Versatile Metal-Boron Multiple Bond</i>	2,497,000 €
DFG Leibniz Prize (2009-2015)	3,000,000 €

Equipment grants awarded by the Deutsche Forschungsgemeinschaft (DFG) (as co-PI)

2004-2020 – 10 grants	ca. 3,429,000 €
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Individual research grants and grants awarded as part of collaborative projects (DFG, EPSRC (UK))

1996-current – 17 grants	ca. 5,709,000 €
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Research grants from industry sources

2007-current – funding from BASF AG, Novaled, Cynora, Merck, Marvel Fusion, Nissan	ca. 760,000 €
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Hosting of researchers with individual scholarships / fellowships

Postdoctoral and senior researchers with fellowships, e.g. AvH, CSC (China), NSERC (Canada):	34
Doctoral students with scholarships, e.g. FCI, CSC, Studienstiftung des Deutschen Volkes:	14

PUBLICATIONS SUMMARY

- Publications: over 750
- H-index: 78 (Web of Science), 94 (Google Scholar)
- Citations: 27,398 (Web of Science), 39,760 (Google Scholar)
- Papers designated as Highly Cited Papers (Clarivate Analytics): 5
- Over 300 papers in top-ranked journals including *Science* (4), *Nature* (1), *Nature Chemistry* (5), *Nature Synthesis* (1), *Chem* (1), *Angewandte Chemie* (159), *J. Am. Chem. Soc.* (65), *Chemical Science* (46)

TEN REPRESENTATIVE PUBLICATIONS

- M. Michel, S. Kar, L. Endres, R. D. Dewhurst, B. Engels, H. Braunschweig, The synthesis of a neutral boryne, *Nature Synth.* **2025**, DOI: 10.1038/s44160-025-00763-1
Highlighted in: *Chemistry World*
- M.-A. Légaré, G. Bélanger-Chabot, M. Rang, R. D. Dewhurst, I. Krummenacher, R. Bertermann, H. Braunschweig, One-Pot, Room-Temperature Conversion of Dinitrogen to Ammonia at a Main-Group Element, *Nature Chem.* **2020**, *12*, 1076–1080.
Highlighted in: *Chemical and Engineering News, ChemistryViews, ARD Frankenschau*
- M.-A. Légaré, M. Rang, G. Bélanger-Chabot, J. I. Schweizer, I. Krummenacher, R. Bertermann, M. Arrowsmith, M. C. Holthausen, H. Braunschweig, The reductive coupling of dinitrogen, *Science* **2019**, *363*, 1329–1332.
Highlighted in: *Chemical and Engineering News, Spektrum Web of Science Highly Cited Paper - top 1% of its field*
- M.-A. Légaré, G. Bélanger-Chabot, R. D. Dewhurst, E. Welz, I. Krummenacher, B. Engels, H. Braunschweig, Nitrogen Fixation and Reduction at Boron, *Science* **2018**, *359*, 896–900.
Highlighted in: *Science, Chemical and Engineering News Web of Science Highly Cited Paper - top 1% of its field*

- M. Arrowsmith, H. Braunschweig, M. A. Celik, T. Dellermann, R. D. Dewhurst, W. C. Ewing, K. Hammond, T. Kramer, I. Krummenacher, J. Mies, K. Radacki, J. K. Schuster, Neutral Low-Valent s-Block Complexes with Strong Multiple Bonding, *Nature Chemistry* **2016**, 8, 890
Highlighted in: Der Spiegel, Chemistry World, Nature Chemistry
- H. Braunschweig, R. D. Dewhurst, F. Hupp, M. Nutz, K. Radacki, C. W. Tate, A. Vargas, Q. Ye, Multiple Complexation of CO and Related Ligands to a Main Group Element, *Nature* **2015**, 522, 327–330
Highlighted in: Nature, Chemical and Engineering News
- H. Braunschweig, T. Dellermann, R. D. Dewhurst, W. C. Ewing, K. Hammond, J. O. C. Jimenez-Halla, T. Kramer, I. Krummenacher, J. Mies, A. K. Phukan, A. Vargas, Metal-Free Coupling of Carbon Monoxide at a Boron-Boron Triple Bond, *Nature Chemistry* **2013**, 5, 1025
Highlighted in: Nature
- H. Braunschweig, A. Damme, R. D. Dewhurst, A. Vargas, Bond-strengthening π backdonation in a transition-metal π -diborene complex, *Nature Chemistry* **2013**, 5, 115
Highlighted in: Nature Chemistry
- H. Braunschweig, R. D. Dewhurst, K. Hammond, J. Mies, K. Radacki, A. Vargas, Ambient-Temperature Isolation of a Compound with a Boron-Boron Triple Bond, *Science* **2012**, 336, 1420
Highlighted in: The Times of London, New Scientist, Science, Nature, Chemistry World, Spektrum
- H. Braunschweig, K. Radacki, A. Schneider, Oxoboryl Complexes: Boron–Oxygen Triple Bonds stabilized in the Coordination Sphere of Platinum, *Science* **2010**, 328, 345
Highlighted in: Chemical and Engineering News, Angewandte Chemie

PATENTS AND PATENT APPLICATIONS

- L. Wüst, O. Steinlein, T. Keim, H. Braunschweig, L. Meinel, *Newly synthesized boron-nitrogen heterocycles and their conjugates with pharmaceutically utilizable substances*, European Patent Application No. 24 207 621.4, 2024.
- H. Braunschweig, F. Güthlein, *TM catalyzed synthesis of diboranes(4)*, EP2554547(A1), 2013.
- H. Braunschweig, C. von Koblinski, M. O. Kristen, *Metallocene Complexes*, EP1140955(A1), 2001.

SELECTED INVITED PRESENTATIONS

2024	<i>M. Frederick Hawthorne Lectureship</i> , University of California Los Angeles	Named Lectureship
2024	<i>A. Chakravorty Endowment Lectureship</i> , Chem. Research Society of India	Named Lectureship
2023	<i>Frankland Lectureship</i> , Imperial College London	Named Lectureship
	<i>Margot Becke Lectureship</i> , Univ. Heidelberg	Named Lectureship
2022	<i>Manchot Research Lectureship</i> , TU München	Named Lectureship
2019	<i>Leibniz Lecture Tour</i> , IIS Bangalore & IIT Madras, India	Award Lecture Tour
	<i>Intl. Congress on Catalysis & Chemical Science</i> , Singapore	Keynote Lecture
2018	<i>JSPS Invitation Fellowship / Lecture Tour</i> of 7 Japanese universities	Award Lecture Tour
	<i>IOCF Lectureship Award</i> , Universities of Kyoto and Osaka	Award Lecture Tour
	<i>Intl. Conf. on Emerging Trends in Chem. Sciences</i> , Dibrugarh, India	Plenary Lecture
2017	<i>Leibniz Lecture Tour</i> , Universities of Calgary and Ottawa, Canada	Award Lecture Tour
	<i>Glenn Seaborg Lectureship</i> , University of California Berkeley, USA	Named Lectureship
2016	<i>Frontiers Lecture Series</i> , Texas A&M	Named Lectureship
	<i>Clemens-Winkler-Kolloquium</i> , TU Bergakademie Freiberg	Named Lectureship
	<i>Boron in the Americas XV</i> , Kingston, Canada	Keynote Lecture
	<i>Inorganic Lecture Series MIT and Harvard</i> , Boston, USA	Lecture Series
2015	<i>Inorganic Lecture Series UBC and UVic</i> , Vancouver/Victoria	Lecture Series
	<i>6th Global Congress of Catalysis</i> , Xi'an, China	Keynote Lecture
	<i>14th Inorganic Ring Systems (IRIS) Conference</i> , Regensburg	Keynote Lecture
	<i>RSC Main Group Award lecture tour</i> (five UK universities)	Award Lecture Tour
	<i>Plenary talk at SFB symposium</i> , Universität Münster	Plenary Lecture
	<i>Mike Lappert Memorial Symposium</i> , London	Keynote Lecture
2014	<i>Bruker Lectureship</i> , University of Toronto, Canada	Named Lectureship
	<i>ScotChem Lecture Tour</i> (lectures at five Scottish universities)	Award Lecture Tour
	<i>XXVII ICOMC</i> , Sapporo, Japan	Plenary Lecture
	<i>ICCC 41</i> , Singapore	Keynote Lecture
	<i>ATC-Diskussionstagung of DECHEMA</i> , Frankfurt, Germany	Keynote Lecture

2013	<i>ChemComm/Dalton Symposium</i> , Regensburg, Germany <i>96th Canadian Society for Chemistry Conference</i> , Quebec <i>INEOS RAS, A. N. Nesmeyanov Institute</i> , Moscow, Russia	Plenary Lecture Keynote Lecture Plenary Lecture
2012	<i>Organometallic Summer School</i> , Jaca, Spain <i>Steinhofer Lectureship</i> , Univ. Freiburg <i>13th Inorganic Ring Systems (IRIS) Conference</i> , Victoria, Canada	Keynote Lecture Named Lectureship Plenary Lecture
2011	<i>XIX European Conference on Organomet. Chem.</i> , Toulouse, France <i>IMEBoron XIV</i> , Niagara Falls, Canada	Plenary Lecture Plenary Lecture
2010	<i>Main Group Interest Group</i> , Oxford, U.K. <i>25th OKV</i> , Tromsø, Norway	Plenary Lecture Keynote Lecture
2009	<i>92nd Canadian Society for Chemistry Conference</i> , Hamilton, Canada <i>Zing Organometallics Conference</i> , Antigua <i>Arduengo Lectureship</i> , University of Alabama, U.S.A.	Keynote Lecture Keynote Lecture Award Lecture
2008	<i>IMEBoron XIII</i> , Barcelona, Spain	Keynote Lecture

ORGANISATION OF INTERNATIONAL CONFERENCES

- *Summer School on Catalysis and Organometallic Synthesis*, Würzburg (2017)
- *International School on Organometallic Chemistry Marcial Moreno Mañas*, International Scientific Advisory Board (2016-current)
- *International Meeting on Boron Chemistry (IMEBORON)*, Steering Committee: Platja d'Aro (2008), Niagara Falls (2011), Prague (2014), Hong Kong (2017), Rennes (2020)
- *European Conference on Boron Chemistry (EUROBORON)* Steering Committee: Bremen (2007), Edinburgh (2010), Radziejowice (2013), Suzdal (2016), Montpellier (2019)
- AGICHEM Steering Committee: Cardiff (2008)
- *International Ferrocene Symposium*, Symposium Chairman, Würzburg (2004)

MENTORSHIP OF JUNIOR RESEARCHERS WHO HAVE TAKEN UP FACULTY POSITIONS

- 1 Habilitation host (2004-2008) to Prof. Dr. David Scheschkewitz, Krupp Professor (W3) at Universität des Saarlandes, Germany.
- 2 Habilitation host (2011-2016) to Prof. Dr. Viktoria Däschlein-Gessner, Professor (W3) at Ruhr-Universität Bochum, Germany.
- 3 Habilitation host (2015-2021) to Prof. Dr. Crispin Lichtenberg, Professor (W2) at Philipps-Universität Marburg, Germany.
- 4 Postdoctoral host (2008-2010) to Prof. Ching-Wen Chiu, Associate Professor at the National Taiwan University, Taiwan.
- 5 Postdoctoral host (2011-2013) to Dr. Alfredo Vargas, Senior Lecturer at the University of Sussex, UK.
- 6 Postdoctoral host (2011-2012) to Prof. J. Oscar C. Jimenez-Halla, Professor at the University of Guanajuato, Mexico.
- 7 Postdoctoral host (2011-2013) to Dr. Sakya S. Sen, Research Group Leader at the National Chemical Laboratory in Pune, India.
- 8 Postdoctoral host (2011-2015) to Prof. Rong Shang, Assistant Professor at Hiroshima University, Japan.
- 9 Postdoctoral host (2013) to Prof. Ashwini Phukan, Professor at Tezpur University, India.
- 10 Postdoctoral host (2014-2016) to Prof. Xiaoyu Yan, Assistant Professor at Renmin University, China.
- 11 Postdoctoral host (2012-2016) to Prof. K. Geetharani, Assistant Professor at the Indian Institute of Science Bangalore, India.
- 12 Doctoral and postdoctoral host (2009-2014) to Prof. Qing Ye, Professor at Julius-Maximilians-University of Würzburg, Germany.
- 13 Doctoral host (2016) to Prof. Fabiola de la Cruz, Professor at the Universidad Autónoma de Coahuila, Coahuila, Mexico.
- 14 Postdoctoral host (2015-2017) to Prof. Sunewang R. Wang, Assistant Professor at East China Normal University, Shanghai, China.
- 15 Postdoctoral host (2015-2018) to Prof. Xiaoning Guo, Assistant Professor at the Technical Institute of Physics and Chemistry, Chinese Academy of Sciences, China.
- 16 Postdoctoral host (2015-2017) to Prof. Chang-Jiang Yao, Professor at the Beijing Institute for Technology, China.
- 17 Postdoctoral host (2016-2019) to Prof. Dipak Roy, Assistant Professor at IIT Indore, India.
- 18 Doctoral host (2015-2019) to Prof. Siyuan Liu, Associate Professor at China University of Petroleum, Qingdao, China.

- 19 Postdoctoral host (2017-2019) to Prof. Guillaume Bélanger-Chabot, Assistant Professor at Université Laval, Quebec City, Canada.
- 20 Postdoctoral host (2017-2020) to Prof. Marc-André Légaré, Assistant Professor at McGill University, Montreal, Canada.
- 21 Postdoctoral host (2017-2020) to Prof. Conor Pranckevicius, Assistant Professor at the University of British Columbia, Kelowna, Canada.
- 22 Postdoctoral host (2018-2021) to Dr. Felipe Fantuzzi, Lecturer at the University of Kent, UK.
- 23 Postdoctoral host (2019-2021) to Prof. Wei Lu, Associate Professor at Sichuan University, China.
- 24 Postdoctoral host (2019-2021) to Prof. Jingjing Cui, Assistant Professor at Wuhan Institute of Technology, China.
- 25 Postdoctoral host (2019-2024) to Prof. Arumugam Jayaraman, Assistant Professor at the University of Nevada, Las Vegas, USA.
- 26 Postdoctoral host (2020-2024) to Prof. Debabrata Dhara, Assistant Professor at IIT Palakkad, India.

HOSTING OF RESEARCHERS WITH THIRD-PARTY FELLOWSHIPS AND SCHOLARSHIPS

Alexander von Humboldt Fellowships and Awards for Senior Researchers:

Prof. Sundargopal Ghosh	<i>Fellowship for Senior Researchers (2008, 2010, 2014)</i>
Prof. Todd B. Marder	<i>Humboldt Research Award (2010)</i>
Prof. Krishna Kumar Pandey	<i>Fellowship for Senior Researchers (2010)</i>
Prof. Emmanuel Lacôte	<i>Friedrich Wilhelm Bessel Research Award (2018)</i>
Prof. Shigehiro Yamaguchi	<i>Humboldt Research Award (2019)</i>
Prof. Zhenguo Huang	<i>Fellowship for Senior Researchers (2022)</i>
Prof. Shabana Khan	<i>Fellowship for Senior Researchers (2022)</i>
Prof. Anukul Jana	<i>Fellowship for Senior Researchers (2022)</i>
Prof. Zuowei Xie	<i>Humboldt Research Award (2023)</i>
Prof. Muralee Murugesu	<i>Humboldt Research Award (2023)</i>
Prof. Simon Aldridge	<i>Humboldt Research Award (2023)</i>
Prof. Makoto Yamashita	<i>Humboldt Research Award (2024)</i>

Alexander von Humboldt Postdoctoral and Return Fellowships:

Dr. Daniela Rais (2004-2005)	Dr. Rian Dewhurst (2007-2008)
Dr. Ching-Wen Chiu (2009-2010)	Dr. Viktoria Däschlein-Gessner (2010)
Dr. Marta Lopez de Rego Lage (2011-2012)	Dr. Sakya S. Sen (2011-2013)
Dr. Kalimuthu Geetharani (2012-2014)	Dr. Silvia Mozo de la Vieja (2013-2015)
Dr. Xiaoyu Yan (2014-2016)	Dr. Merle Arrowsmith (2014-2016)
Dr. Rixin Wang (2015-2017)	Dr. Chang-Jiang Yao (2015-2017)
Dr. Crispin Lichtenberg (2015-2016)	Dr. Guillaume Bélanger-Chabot (2016-2018)
Dr. Conor Pranckevicius (2017-2019)	Dr. Xiaoning Guo (2015-2018)
Dr. James Goettel (2017-2019)	Dr. Felipe Fantuzzi (2018-2020)
Dr. Soren Møllerup (2018-2020)	Dr. Arumugam Jayaraman (2019-2021)
Dr. Debabrata Dhara (2020-2022)	Dr. Koushik Saha (2021-2023)
Dr. Sourav Kar (2023-)	

Verband der Chemischen Industrie Ph.D. scholarships:

Dr. Frank Breitling (2002-2004)	Dr. Thomas Kupfer (2005-2007)
Dr. Achim Schneider (2007-2009)	Dr. Jürgen Bauer (2010-2012)
Dr. Johannes Wahler (2011-2013)	Dr. Johannes Brand (2012-2014)
Dr. Lisa Mailänder (2013-2015)	Dr. Alexander Hermann (2016-2018)
Dr. Merlin Heß (2017-2020)	Josina Bohlen (2021-2023)
Lukas Endres (2021-2023; Kekulé fellowship)	Alexander Gerstner (2023-2025)

Studienstiftung des Deutschen Volkes scholarships:

Dr. Carsten Lenczyk (2016-2019)	Dr. Fabian Schorr (2019-2022)
Dr. Stephan Hagspiel (2019-2022)	Dr. Maximilian Dietz (2020-2023)

Fellowships and scholarships from other sources:

Dr. Siyuan Liu (2014-2018)	<i>China Scholarship Council doctoral stipendee</i>
Dr. Marc-André Légaré (2016-2017)	<i>NSERC postdoctoral fellow (Canada)</i>
Dr. Conor Pranckevicius (2017-2019)	<i>NSERC postdoctoral fellow (Canada)</i>

Dr. James Goettel (2018-2019)	<i>Banting postdoctoral fellow (Canada)</i>
Dr. Dipak Roy (2017-2018)	<i>SERB National Post Doctoral Fellowship (India)</i>
Dr. Soren Mellerup (2018-2020)	<i>Banting postdoctoral fellow (Canada)</i>
Dr. Arumugam Jayaraman (2018-2019)	<i>NSERC postdoctoral fellow (Canada)</i>
Dr. Jingjing Cui (2019-2020)	<i>China Scholarship Council postdoctoral fellow</i>