

## Richard Dronskowski (\* November 11, 1961 in Brilon)

### Academic Training:

- 1981–1986 Studies of Chemistry and Physics at the University of Münster  
1987 Chemistry Diploma with Bernt Krebs and Arndt Simon:  
*The Crystal Structure of Mn<sub>2</sub>O<sub>7</sub>*  
1989 Physics Diploma with Ole Krogh Andersen and Johannes Pollmann:  
*Calculations of the Electronic Structures of Corner-Sharing M<sub>6</sub>X<sub>8</sub> Clusters*  
1990 Dissertation (s.c.l.) with Arndt Simon at the University of Stuttgart:  
*Condensed Clusters in Oxides and Arsenides of Molybdenum*  
1995 Habilitation and *venia legendi* at the University of Dortmund

### Professional Experience:

- 1991–1992 Visiting Scientist at Cornell University with Roald Hoffmann  
1992–1996 Senior Scientist at the Max Planck Institute for Solid State Research  
(Stuttgart) with Arndt Simon  
1993–1996 Lecturer at the University of Dortmund  
1997–2005 Chair of Inorganic and Analytical Chemistry at RWTH Aachen University;  
Director, Institute of Inorganic Chemistry  
2004 Guest Professor (Quantum-Theoretical Materials Chemistry) at the Center of  
Interdisciplinary Research of Tōhoku University (Sendai)  
2006–today Chair of Solid-State and Quantum Chemistry at RWTH Aachen University;  
Director, Institute of Inorganic Chemistry  
2013–today Director, *ab initio* Simulation Laboratory for Chemistry and Physics,  
*Jülich-Aachen Research Alliance* (JARA-High Performance Computing)

### Scholarships and Awards:

- 1984 German National Academic Foundation  
1987–1990 Kekulé Scholarship (Chemical Industry Association)  
1990 Otto Hahn Medal (Max Planck Society)  
1991–1993 Liebig Scholarship (Chemical Industry Association)  
1996 Prize of *Angewandte Chemie*  
1997 Chemistry Lecturer Prize (Chemical Industry Association)  
2014 Distinguished Professorship (RWTH Aachen University)  
2015 Innovation Award (RWTH Aachen University)  
2017 Egon Wiberg Lecture (Ludwigs-Maximilians-Universität Munich)

### Fields of Research:

Synthetic Solid State Chemistry (Metastable Solids, Nitrides, Carbodiimides, Cyanamides, Guanidates, Intermetallics), Quantum Chemistry (Chemical Bonding, Steel *ab initio*, Phase-Change Materials, Modelling and Phase Prediction, *ab initio* Thermochemistry), Neutron Diffraction

### Memberships:

German Chemical Society, American Chemical Society, German Physical Society, Working Association Theoretical Chemistry, World Association of Theoretically Oriented Chemists, German Crystallographic Society

### Professional Services:

Editorial Board (*J. Solid State Chem.*, *Inorganics*, *J. Phys.: Condens. Matter*), Elected Member of the Committee “Research with Neutrons” (Department “Infrastructure & Instrumentation”), Scientific Advisory Board (European Spallation Source)