



R. Dronskowski

The author presented on this page has recently published his **10th article** in *Angewandte Chemie* in the last 10 years:

“ β - CuN_3 : The Overlooked Ground-State Polymorph of Copper Azide with Hetero-graphene-Like Layers”: X. Liu, J. George, S. Maintz, R. Dronskowski, *Angew. Chem. Int. Ed.* **2015**, 54, 1954; *Angew. Chem.* **2015**, 127, 1977.



The work of R. Dronskowski has been featured on the inside cover of *Angewandte Chemie*:

“Bonding Nature of Local Structural Motifs in Amorphous GeTe ”: V. L. Deringer, W. Zhang, M. Lumeij, S. Maintz, M. Wuttig, R. Mazzeo, R. Dronskowski, *Angew. Chem. Int. Ed.* **2014**, 53, 10817; *Angew. Chem.* **2014**, 126, 10993.

Richard Dronskowski

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Position:	Chair of Solid-State and Quantum Chemistry; Director, Institute of Inorganic Chemistry, RWTH Aachen University
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Education:	1987 Diploma in chemistry, University of Münster 1989 Diploma in physics, University of Münster 1990 PhD (supervised by Arndt Simon), Max Planck Institute for Solid State Research and University of Stuttgart 1991–1992 visiting scientist in the group of Roald Hoffmann, Cornell University 1995 Habilitation (with Arndt Simon and Herbert Jacobs), University of Dortmund
Awards:	1990 Otto Hahn Medal, Max Planck Society; 1997 Dozentenpreis, Fonds der Chemischen Industrie
Current research:	Solid-state chemistry, quantum chemistry, nitrides, carbodiimides, guanidates, intermetallics, steel, phase-change materials, chemical bonding, ab initio thermochemistry, structural chemistry, neutron diffraction
Hobbies:	Playing the clarinet, literature, classical movies, shooting, DXing, my Alfa Romeo

My “science heroes” are ... Otto Hahn and Hans Hellmann.

My favorite authors are ... Walter Kempowski and John Updike.

The principal aspects of my personality are ... I am arduous, sceptical, and docile.

If I had one year of paid leave I would ... stay at least three months in a first-class library with sea view (and a restaurant in close range) where I would exhaustively read and write.

If I could be a piece of lab equipment, I would be ... a high-resolution time-of-flight neutron diffractometer.

My favorite composers are ... Alban Berg, Felix Mendelssohn-Bartholdy, Béla Bartók, Paul Hindemith, Ludwig van Beethoven, and a few more.

My favorite book is ... *Kreide für den Wolf* by Roland Baader.

My motto is ... “All many-body physics is really chemistry, and all theorists know it.”

Looking back over my career I ... could have been a little more easygoing here and there.

My favorite drink is ... freshly tapped Export beer from Dortmund.

My first experiment was ... dangerous, in my parents’ cellar. My mum did not know about it.

In a spare hour I ... either read a book or watch an old German movie in black-and-white.

My five top papers:

1. “The Orbital Origins of Magnetism: From Atoms to Molecules to Ferromagnetic Alloys”: G. A. Landrum, R. Dronskowski, *Angew. Chem. Int. Ed.* **2000**, 39, 1560; *Angew. Chem.* **2000**, 112, 1598. (A chemical explanation for itinerant ferro- and antiferromagnetism.)
2. “Synthesis, Crystal Structure, and Properties of MnNCN , the First Carbodiimide of a Magnetic Transition Metal”: X. Liu, M. Krott, P. Müller, C. Hu, H. Lueken, R. Dronskowski, *Inorg. Chem.* **2005**, 44, 3001. (Nitrogen analogues of the “correlated oxides” known from solid-state physics but with new properties.)
3. “Ab Initio Thermochemistry of Solid-State Materials”: R. P. Stoffel, C. Wessel, M.-W. Lumeij, R. Dronskowski, *Angew. Chem. Int. Ed.* **2010**, 49, 5242; *Angew. Chem.* **2010**, 122, 5370. (The systematic calculation of free energies of solid-state materials by the inclusion of phonons and other excitations.)
4. “Analytic projection from plane-wave and PAW wavefunctions and application to chemical-bonding analysis in solids”: S. Maintz, V. L. Deringer, A. L. Tchougréeff, R. Dronskowski, *J. Comput. Chem.* **2013**, 34, 2557. (This work on projected crystal orbital Hamilton populations led to the computer program LOBSTER which is now used worldwide.)
5. “Single-Crystal Neutron Diffraction Study on Guanidine, CN_3H_3 ”: P. K. Sawinski, M. Meven, U. Englert, R. Dronskowski, *Cryst. Growth and Design* **2013**, 13, 1730. (Showed the power of neutrons in clarifying the crystal and molecular structure of guanidine, 152 years after its first synthesis.)

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