

Axel Schulz

| | |
|------------------------------------|--|
| Date of birth: | March 31, 1967 |
| Position: | Professor of Inorganic and Elementorganic Chemistry, Universität Rostock and Head of Department for Material Design, Leibniz Institute for Catalysis, Rostock (Germany) |
| E-mail address: | axel.schulz@uni-rostock.de |
| Homepage: | http://www.schulz.chemie.uni-rostock.de/ |
| Education: | 1993 Diploma in Chemistry, Technische Universität Berlin (Germany) 1994 PhD with Thomas Klapötke, Technische Universität Berlin 1995–1997 Research associate with Thomas Klapötke, University of Glasgow (UK) 1998 Postdoctoral fellow with Leo Radom, RSC Canberra (Australia) 2001 Habilitation, Ludwig-Maximilians-Universität München (Germany) |
| Awards: | 2001 Carolin; 2002 Juliane (my daughters) |
| Current research interests: | With nitrogen being my favorite element, we are interested in everything that involves this element: synthesis of binary E-N species (E in our current research = C, N, P, As, Sb, Bi, S), structure and bonding, computational chemistry, chemistry of reactive cations and weakly coordinating anions, pseudohalogen chemistry, ionic liquids, metal organic frameworks, catalysis |
| Hobbies: | Dogs and history |



A. Schulz

The author presented on this page has recently published his **10th article** since 2000 in *Angewandte Chemie*:
“Binary Bismuth(III) Azides: $\text{Bi}(\text{N}_3)_3$, $[\text{Bi}(\text{N}_3)_4]^-$, and $[\text{Bi}(\text{N}_3)_6]^{3-}$ ”: A. Villinger, A. Schulz, *Angew. Chem.* **2010**, 122, 8190–8194; *Angew. Chem. Int. Ed.* **2010**, 49, 8017–8020.

When I wake up I ... think of molecules I dreamt of.

My greatest achievement has been ... finding a wife, who is not a scientist.

If I could have dinner with three famous scientists from history, they would be ... Scheele, Priestley, and Lavoisier.

And I would ask them ... “How many research proposals have you written?”

If I were not a scientist ... I would be a soccer-playing farmer with lots of animals.

The most exciting thing about my research is ... to make very simple isolable classes of compounds within the field of nitrogen chemistry that chemists would consider not to be preparable based on generally accepted views and experience.

My biggest motivation is ... to introduce gifted young students to (a career in) science.

The best advice I have ever been given is ... “Believe in chemistry!”

I would like to have discovered ... the element nitrogen.

The part of my job which I enjoy the most is ... that I am the only person who grows older (or that I am always surrounded by young people).

A good work day begins with ... a kiss from my wife, hugs from my daughters, and a little walk with my dog.

Young people should study chemistry because ... we live in a world of chemistry with chemists (and all other kinds of creatures) being composed of myriads of tiny chemical plants.

My 5 top papers:

1. “Nitro(nitroso)cyanmethanides”: H. Brand, P. Mayer, A. Schulz, J. J. Weigand, *Angew. Chem.* **2005**, 117, 3998–4001; *Angew. Chem. Int. Ed.* **2005**, 44, 3929–3932. (This communication describes a methanide that bears three different nitrogen-containing functional groups.)
2. “Tetrazarsoles—A New Class of Binary Arsenic–Nitrogen Heterocycles”: A. Schulz, A. Villinger, *Angew. Chem.* **2008**, 120, 614–617; *Angew. Chem. Int. Ed.* **2008**, 47, 603–606. (It took us two years to prepare this binary N_4As heterocycle.)
3. “Bisilylated Halonium Ions: $[\text{Me}_3\text{Si}-\text{X}-\text{SiMe}_3][\text{B}(\text{C}_6\text{F}_5)_4]^-$ (X = F, Cl, Br, I)”: M. Lehmann, A. Schulz, A. Villinger, *Angew. Chem.* **2009**, 121, 7580–7583; *Angew. Chem. Int. Ed.* **2009**, 48, 7444–7447. (A full series of bisilylated halonium ions is presented.)
4. “Synthesis, Structure, and Bonding of Weakly Coordinating Anions Based on CN Adducts”: A. Bernsdorf, H. Brand, R. Hellmann, M. Köckerling, A. Schulz, A. Villinger, K. Voss, *J. Am. Chem. Soc.* **2009**, 131, 8958–8970. (Unprecedented weakly coordinating anions are described.)
5. “Pseudohalonium Ions: $[\text{Me}_3\text{Si}-\text{X}-\text{SiMe}_3]^+$ (X = CN, OCN, SCN, and NNN)”: A. Schulz, A. Villinger, *Chemistry–Eur. J.* **2010**, 16, 7276–7281. (This paper reports on the extension of the pseudohalogen concept.)

DOI: 10.1002/anie.201006687