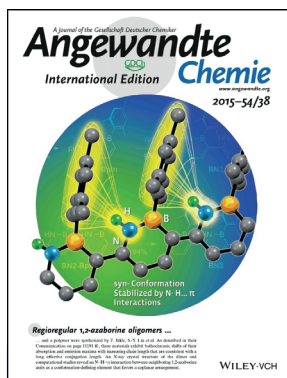




F. Jäkle

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

“p- π Conjugated Polymers Based on Stable Triarylborane with n-Type Behavior in Optoelectronic Devices”: B. Meng, Y. Ren, J. Liu, F. Jäkle, L. Wang, *Angew. Chem. Int. Ed.* **2018**, *57*, 2183; *Angew. Chem.* **2018**, *130*, 2205.



The work of F. Jäkle has been featured on the inside cover of *Angewandte Chemie*:

“Regioregular Synthesis of Azaborine Oligomers and a Polymer with a *syn* Conformation Stabilized by N–H... π Interactions”: A. W. Baggett, F. Guo, B. Li, S. Liu, F. Jäkle, *Angew. Chem. Int. Ed.* **2015**, *54*, 11191; *Angew. Chem.* **2015**, *127*, 11343.

Frieder Jäkle

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Position:	Distinguished Professor, Rutgers University, Newark
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Education:	1995 Diploma in chemistry, Technische Universität München (TUM) 1997 Dr. rer. nat. supervised by Prof. Matthias Wagner, TUM 1997–2000, DFG postdoctoral fellow with Prof. Ian Manners, University of Toronto
Awards:	2004 NSF Career Award; 2006 Alfred P. Sloan Fellowship, 2009 Friedrich Wilhelm Bessel Award, Alexander von Humboldt Foundation; 2012 ACS Akron Section Award; 2012 Boron in the Americas Award; 2017 Rutgers Board of Trustees Research Award
Current research interests:	Organoborane Lewis acids and Lewis pairs; conjugated polymers; organometallic polymers; optoelectronic materials; chemical sensors; supported catalysts
Hobbies:	Hiking, traveling, enjoying fine cuisine with my wife

My not-so-secret passion is a delicious piece of French cheese.

I would have liked to have discovered “frustrated” Lewis pairs.

If I won the lottery, I would expand my research group and otherwise stay true to my “Swabian” upbringing.

My favorite place on earth is the Munich beer gardens on a nice summer day, or maybe a hard-to-reach mountain top.

I chose chemistry as a career because my soccer skills were not good enough, and I guess I like to play with fire. So what better than to have fun every day!

If I were not a scientist, I would be making tons of money on Wall Street while driving a taxi in Manhattan for fun.

The most important thing I learned from my parents is to be modest and enjoy a good glass of wine.

My greatest achievement has been passing the physics “Vordiplom” (intermediate diploma).

My worst nightmare is a lab accident involving one of my students.

If I could go back in time and do any experiment, it would be ... I prefer to look to the future.

I celebrate success by opening a bottle of champagne when my students graduate.

My piece of music is Modest Mussorgski’s *Pictures at an Exhibition*.

My 5 top papers:

1. “Well-Defined Boron-Containing Polymeric Lewis Acids”: Y. Qin, G. Cheng, A. Sundararaman, F. Jäkle, *J. Am. Chem. Soc.* **2002**, *124*, 12672. (A selective borylation method that has enabled access to many new materials over the years.)
2. “Reversible Expansion and Contraction of a 1,2-Diborylated Ferrocene Dimer Promoted by Redox Chemistry and Nucleophile Binding”: K. Venkatasubbiah, L. N. Zakharov, W. S. Kassel, A. L. Rheingold, F. Jäkle, *Angew. Chem. Int. Ed.* **2005**, *44*, 5428; *Angew. Chem.* **2005**, *117*, 5564. (A redox-active analogue of diborabenzene undergoes unique structural changes when applying external stimuli.)
3. “ π -Expanded Borazine: An Ambipolar Conjugated B– π –N Macrocycle”: P. Chen, R. A. Lalancette, F. Jäkle, *Angew. Chem. Int. Ed.* **2012**, *51*, 7994; *Angew. Chem.* **2012**, *124*, 8118. (A boron-containing donor–acceptor macrocycle that we succeeded to structurally characterize by X-ray analysis.)
4. “Electron-Deficient Triarylborane Block Copolymers: Synthesis by Controlled Free Radical Polymerization and Application in the Detection of Fluoride Ions”: F. Cheng, E. M. Bonder, F. Jäkle, *J. Am. Chem. Soc.* **2013**, *135*, 17286. (Polymer effects and block copolymer self-assembly allow for fluoride ion detection in aqueous solutions at extremely low concentrations.)
5. “B–N Lewis Pair Functionalization of Anthracene: Structural Dynamics, Optoelectronic Properties, and O₂ Sensitization”: K. Liu, R. A. Lalancette, F. Jäkle, *J. Am. Chem. Soc.* **2017**, *139*, 18170. (A new class of “contorted” conjugated hybrid materials.)

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Author Profile



Authors Profile



“My not-so-secret passion is a delicious piece of French cheese. I would have liked to have discovered “frustrated” Lewis pairs ...” Find out more about Frieder Jäkle in his Author Profile.