



A. Sekiguchi

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

“Carbonylation of Cyclotrisilenes”: M. J. Cowley, Y. Ohmori, V. Huch, M. Ichinohe, A. Sekiguchi, D. Scheschke, *Angew. Chem.* **2013**, 125, 13489; *Angew. Chem. Int. Ed.* **2013**, 52, 13247.



The work of A. Sekiguchi has been featured on the cover of *Angewandte Chemie*: “Hexakis(trimethylsilyl)-tetrahedranyltetrahedrane”: M. Tanaka, A. Sekiguchi, *Angew. Chem.* **2005**, 117, 5971; *Angew. Chem. Int. Ed.* **2005**, 44, 5821.

Akira Sekiguchi

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Position:	Professor of Organic Chemistry, University of Tsukuba
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Education:	1970–1974 BEng, Gunma University 1974–1976 MEng (supervised by Prof. T. Migita), Gunma University 1976–1978 PhD in Chemistry (supervised by Prof. W. Ando), University of Tsukuba 1985–1986 Postdoctoral fellow with Prof. R. West, University of Wisconsin
Awards:	2004 Alexander von Humboldt Research Award; 2006 Frederic Stanley Kipping Award (American Chemical Society); 2012 Award of the Chemical Society of Japan; 2013 Doctor Honoris Causa, Université Paul Sabatier
Current research interests:	Chemistry of low-coordinated main-group elements; reactivity and bonding in organosilicon chemistry; lithium chemistry; activation of small molecules; energy storage systems
Hobbies:	Traveling to foreign countries, gardening, walking, driving

My favorite food is ... shellfish such as lobster and crab.

If I won the lottery, I would ... take a luxury cruise and travel around the world.

My biggest motivation is ... the challenge of discovering new molecules and chemical reactions.

My most exciting discovery to date has been ... a stable molecule with a silicon–silicon triple bond (disilyne), which was a very nice gift from Santa Claus on Christmas day.

The best advice I have ever been given is ... “nothing is impossible if you do your best.”

My favorite saying is ... “what you do not wish for yourself, do not do to others.”

I like refereeing because ... I can see new work and the latest progress in science.

The most significant scientific advance of the last 100 years has been ... the development of molecular orbital theory.

What I look for first in a publication is ... the title and graphics.

The most important thing I learned from my parents is ... to put forth a steady effort to achieve something.

If I could have dinner with three famous scientists from history, they would be ... Mendeleev, Liebig, and Kekulé.

My 5 top papers:

1. “A Free Cyclotrigermanium Cation with a 2π -Electron System”: A. Sekiguchi, M. Tsukamoto, M. Ichinohe, *Science* **1997**, 275, 60–61. (Opened a new field of chemistry involving cations of the heavier elements.)
2. “Synthesis, Characterization, and Crystal Structure of Cyclotrisilene: A Three-Membered Ring Compound with a Si–Si Double Bond”: M. Ichinohe, T. Matsuno, A. Sekiguchi, *Angew. Chem.* **1999**, 111, 2331–2333; *Angew. Chem. Int. Ed. Engl.* **1999**, 38, 2194–2196. (A new silicon–silicon double bond incorporated in a three-membered system with effective σ – π conjugation.)
3. “Isolable Silyl and Germyl Radicals Lacking Conjugation with π -Bonds: Synthesis, Characterization, and Reactivity”: A. Sekiguchi, T. Fukawa, M. Nakamoto, V. Ya. Lee, M. Ichinohe, *J. Am. Chem. Soc.* **2002**, 124, 9865–9869. (Opened the gram-scale synthesis of stable heavier Group 14 element radicals.)
4. “A Stable Compound Containing a Silicon–Silicon Triple Bond”: A. Sekiguchi, R. Kinjo, M. Ichinohe, *Science* **2004**, 305, 1755–1757. (Completed the Group 14 series of alkyne-like molecules and opened up a new field of low-coordinated silicon chemistry.)
5. “Toward a Silicon Version of Metathesis: From Schrock-Type Titanium Silylidenes to Silatitanacyclobutenes”: V. Ya. Lee, S. Aoki, T. Yokoyama, S. Horiguchi, A. Sekiguchi, H. Gornitzka, J.-D. Guo, S. Nagase, *J. Am. Chem. Soc.* **2013**, 135, 2987–2990. (Titanium silylene complexes that form [2+2] cycloaddition products with alkynes, which leads to silicon metathesis.)

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