

CURRICULUM VITAE - Cheuk-Wai SO (蘇卓威)

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EDUCATION

2003 Ph.D. in Chemistry, The Chinese University of Hong Kong, Hong Kong
Research Advisor: Prof. Kevin W. P. Leung

1999 B.Sc. (First Class Honors) in Chemistry, The Chinese University of Hong Kong

POSITION HELD

03/2016 – present Associate Professor
Division of Chemistry & Biological Chemistry, School of Physical and
Mathematical Sciences, Nanyang Technological University, Singapore

08/2008 – 02/2016 Assistant Professor
Division of Chemistry & Biological Chemistry, School of Physical and
Mathematical Sciences, Nanyang Technological University, Singapore

04/2007 – 03/2008 JSPS Postdoctoral Fellow
Research Advisor: Prof. Shigehiro Yamaguchi, Nagoya University, Japan

06/2005 – 02/2007 Alexander von Humboldt Research Fellow
Research Advisor: Prof. Herbert W. Roesky, Universität Göttingen, Germany

09/2003 – 06/2004 Assistant Professor
Department of Chemistry, The Chinese University of Hong Kong, Hong Kong

AWARDS

2017 Best Poster Award
The 18th International Symposium on Silicon Chemistry

2015 Best Poster Award
The 27th International Conference on Organometallic Chemistry

2013 SPMS Teaching Excellence Award

2007 JSPS Postdoctoral Fellowship for Foreign Researchers

2005 Alexander von Humboldt Research Fellowship

2001 & 2000 Sir Edward Youde Memorial Fellowship (*twice*)

1999 Y.C. Liang Scholarship
Dean's List, Faculty of Science, The Chinese University of Hong Kong

1998 Hui Yao Thoac Gold Medal In Chemistry

RESEARCH INTERESTS

Main-group and transition metal organometallic chemistry: Challenging conventional perspective on bonding, structure, stability and reactivity

My research group investigates the chemistry of very low oxidation state and coordination number *p*- and *d*-block complexes with emphasis on their unprecedented electronic structures and reactivities, which were thought to be inexistent and unstable at room temperature, leading to possible application in catalysis, materials chemistry, hydrogen storage, etc..

PUBLICATION

61 articles in total regarding main-group and transition metal organometallic chemistry were reported in international renowned peer-reviewed journals. The highlight is listed in the following:

- 9 articles were reported in the *Angewandte Chemie* (I.F.: 11.994) and the *Journal of the American Chemical Society* (I.F. = 13.858).
 - 1 article is highlighted by the *Angewandte Chemie* and *Organometallics* (I.F. = 3.862).
 - 2 articles were selected by the *European Journal of Inorganic Chemistry* (I.F. = 2.444) and *Dalton Transactions* (I.F. = 4.029) for the cover, respectively.
 - Citation: 1058
 - H-Index: 19
1. Chan, Y.-C.; Leong, B.-X.; Li, Y.; Yang, M.-C.; Li, Y.; Su, M.-D.; **So, C.-W.** A Dimeric NHC-Silicon Monotelluride: Synthesis, Isomerization and Reactivity. *Angew. Chem. Int. Ed.*, **2017**, 56, 11565. (I.F.: 11.994)
 2. Li, Y.; Chan, Y.-C.; Leong, B.-X.; Li, Y.; Richards, E.; Purushothaman, I.; De, S.; Parameswaran, P.; **So, C.-W.** Trapping of a Silicon(I) Radical by Carbenes: Synthesis of a Cationic cAAC-Stabilized Silicon(I) Radical and NHC-Stabilized Parent Silyliumylidene Cation. *Angew. Chem. Int. Ed.* **2017**, 56, 7573. (I.F.: 11.994)
 3. Shan, Y.-L.; Leong, B.-X.; Li, Y.; Ganguly, R.; **So, C.-W.** Donor-Acceptor Stabilized Tetra(silanimine). *Inorg. Chem.* **2017**, 56, 1609. (I.F.: 4.857)
 4. Li, Y.; Chan, Y.-C.; Li, Y.; Purushothaman, I.; De, S.; Parameswaran, P.; **So, C.-W.** Synthesis of a Bent 2-Silaallene with a Perturbed Electronic Structure from a Cyclic Alkyl(amino) Carbene-Diiodosilylene. *Inorg. Chem.* **2016**, 55, 9091. (I.F.: 4.857)
 5. Khoo, S.; Yeong, H.-X.; Li, Y.; Ganguly, R.; **So, C.-W.** Amidinate-Stabilized Group 9 Metal-Silicon(I) Dimer and -Silylene Complexes. *Inorg. Chem.* **2015**, 54, 9968. (I.F.: 4.857)
 6. Shan, Y.-L.; Yim, W.-L.; **So, C.-W.** A N-heterocyclic Silylene Stabilized Digermanium(0) Complex. *Angew. Chem. Int. Ed.* **2014**, 53, 13155. (I.F.: 11.994)
 7. Chia, S.-P.; Carter, E.; Xi, H.-W.; Li, Y.; **So, C.-W.** Group II Metal Complexes of Germlydendiide Dianion Radical and Germlydenide Anion. *Angew. Chem. Int. Ed.* **2014**, 53, 8455. (I.F.: 11.994)
 8. Zhang, S.-H.; Xi, H.-W.; Lim, K. H.; **So, C.-W.** An Extensive σ , π - and n -Electron Delocalized Si₄ Ring. *Angew. Chem. Int. Ed.* **2013**, 52, 12346. (I.F.: 11.994)
 9. Yeong, H.-X.;* Xi, H.-W.; Li, Y.; Kunnappilly, S. B.; Chen, B.; Lau, K.-C.; Hirao, H.; **So, C.-W.** Zwitterionic Base-Stabilized Digermadistannacyclobutadiene and Tetragermacyclobutadiene. *Chem. Eur. J.* **2013**, 19, 14726. (I.F.: 5.317)
 10. Chia, S.-P.; Xi, H. W.; Li, Y.; Lim, K. H.; **So, C.-W.** A Base-Stabilized Lead(I) Dimer and an Aromatic Plumbylidenide Anion. *Angew. Chem. Int. Ed.* **2013**, 52, 6298. (I.F.: 11.994)