

# Novel Bonding and Structures

Singlet Biradical Molecules; Quinoid Structure

Highlight Review

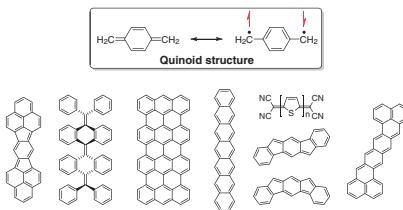
doi:10.1246/cl.140997



## Recent Progress in Quinoidal Singlet Biradical Molecules

T. Kubo

*Chem. Lett.* 2015, 44, 111-122



Si-centered Triradical; High-spin Quartet Ground State

Editor's Choice

doi:10.1246/cl.140913

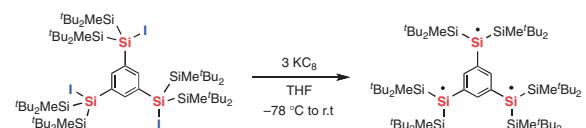


## 1,3,5-[*(t*Bu<sub>2</sub>MeSi)<sub>2</sub>Si]<sub>3</sub>C<sub>6</sub>H<sub>3</sub>: Isolable Si-centered Triradical with a High-spin Quartet Ground State

A. Sekiguchi

Takeshi Nozawa, Masaaki Ichinohe, and Akira Sekiguchi\*

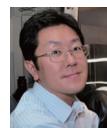
*Chem. Lett.* 2015, 44, 56-57



Hydro-Diborane Compound; Rind Group

Editor's Choice

doi:10.1246/cl.140507

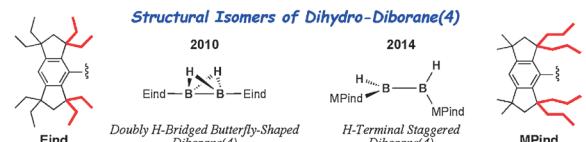


## An Isolable Diborane(4) Compound with Terminal B–H Bonds: Structural Characteristics and Electronic Properties

T. Matsuo

Yoshiaki Shoji, Shohei Kaneda, Hiroyuki Fueno, Kazuyoshi Tanaka, Kohei Tamao,\* Daisuke Hashizume, and Tsukasa Matsuo\*

*Chem. Lett.* 2014, 43, 1587-1589



Electrochromic Quinodimethane Derivative; Reversible Redox Interconversion

Editor's Choice

doi:10.1246/cl.140393

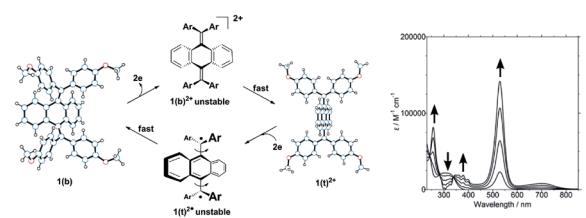


## Preparation, Redox Properties, and X-ray Structures of Electrochromic 11,11,12-, 12-Tetraarylanthraquinodimethane and Its Bianthraquinodimethane Analogue: Drastic Geometrical Changes upon Interconversion with Dicationic Dyes

T. Suzuki

Yuto Sakano, Ryo Katoono, Kenshu Fujiwara, and Takanori Suzuki\*

*Chem. Lett.* 2014, 43, 1143-1145



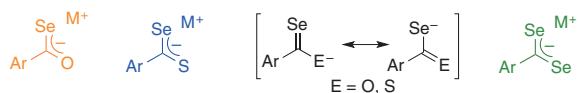


**Aromatic Selenoic, Selenothioic, and Diselenoic Acid Salts: Isolation, Characterization, and  $^{77}\text{Se}$  NMR Spectra, Together with Theoretical Elucidation**

T. Murai

Toshiaki Murai,\* Daisuke Nishi,  
Satoko Hayashi, and Waro Nakanishi\*

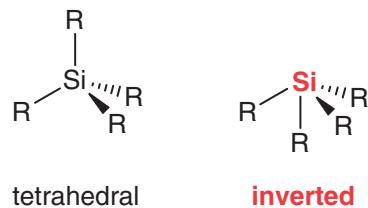
*Bull. Chem. Soc. Jpn.* **2014**, *87*, 677-692



**Silicon Compounds with Inverted Geometry around Silicon Atoms**

T. Iwamoto

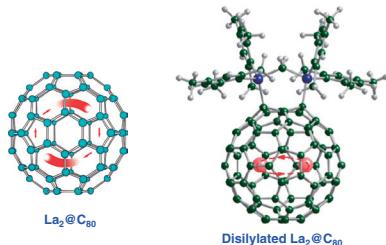
Takeaki Iwamoto\* and Shintaro Ishida  
*Chem. Lett.* **2014**, *43*, 164-170



**Theory and Calculations of Molecules Containing Heavier Main Group Elements and Fullerenes Encaging Transition Metals: Interplay with Experiment**

S. Nagase

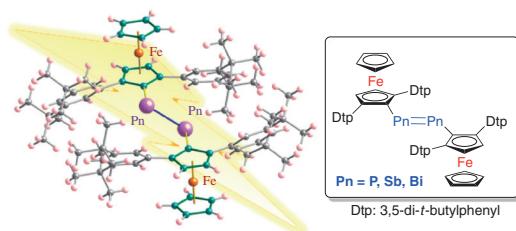
Shigeru Nagase  
*Bull. Chem. Soc. Jpn.* **2014**, *87*, 167-195



**1,2-Bis(ferrocenyl)dipnictenes: Bimetallic Systems with a Pn=Pn Heavy  $\pi$ -Spacer (Pn: P, Sb, and Bi)**

T. Sasamori

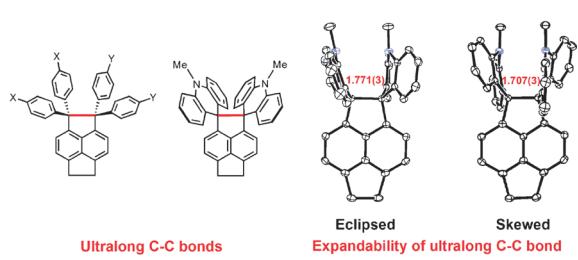
Michiyasu Sakagami, Takahiro Sasamori,\*  
Heisuke Sakai, Yukio Furukawa, and  
Norihiko Tokitoh\*  
*Bull. Chem. Soc. Jpn.* **2013**, *86*, 1132-1143



**Hexaphenylethananes with an Ultralong C-C Bond: Expandability of the C-C Bond in Highly Strained Tetraarylpyracyenes**

T. Suzuki

Takashi Takeda, Yasuto Uchimura,  
Hidetoshi Kawai, Ryo Katoono,  
Kenshu Fujiwara, and Takanori Suzuki\*  
*Chem. Lett.* **2013**, *42*, 954-962



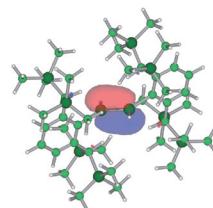


## A New Family of Multiple-Bond Compounds between Heavier Group 14 Elements

T. Sasamori

Takahiro Sasamori\* and Norihiro Tokitoh\*

*Bull. Chem. Soc. Jpn.* **2013**, *86*, 1005-1021

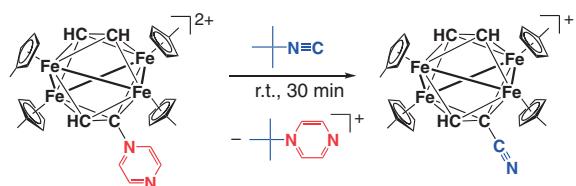


## C(sp<sup>3</sup>)–N(sp) Bond Cleavage of Isocyanides at a Cationic [CCH] Subunit in a Bisdisphenoidal Eight-atom Tetrairon-Tetracarbon Cluster

M. Okazaki

Wataru Taniwaki and Masaaki Okazaki\*

*Chem. Lett.* **2013**, *42*, 807-809



## NMR and DFT Study on Onium Ions Derived from Substituted Fluoranthenes and Benzo[*k*]fluoranthenes

T. Okazaki

Takao Okazaki,\* Taisuke Adachi, and Toshikazu Kitagawa\*

*Bull. Chem. Soc. Jpn.* **2013**, *86*, 464-471

