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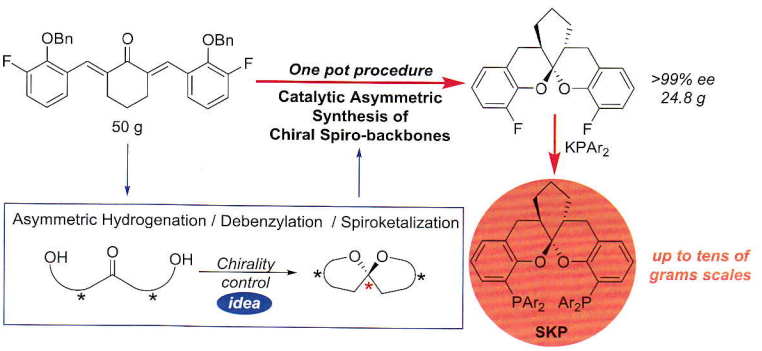
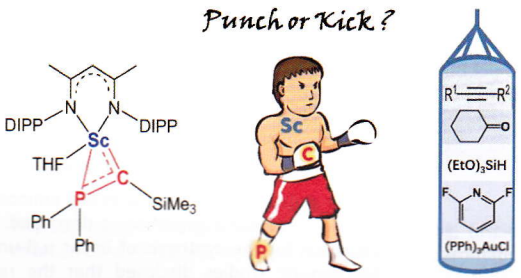
Chemistry Authors Up Close

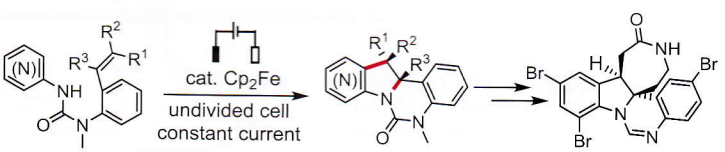


The catalytic asymmetric synthesis of chiral aromatic spiroketals and the development of chiral spiroketal-based diphosphine (SKP) ligands have been summarized.

Breaking Reports



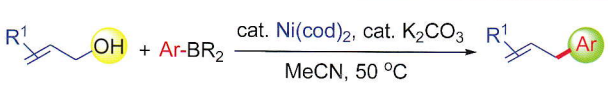
The peculiar electronic structure of scandium phosphinoalkylidene complex [LSc{C(SiMe$_3$)PPh$_2$}THF] (L = [MeC(NDIPP)CHC(NDIPP)Me]$^-$), DIPP = 2,6-(^{i}Pr)$_2$C$_6$H$_3$) leads to an interesting versatile reactivity, which is demonstrated both experimentally and computationally.



- ☑ Di-, tri- and tetrasubstituted alkenes
- ☑ Indoline and azaindoline products
- ☑ Cascade radical cyclization
- ☑ Decagram scale

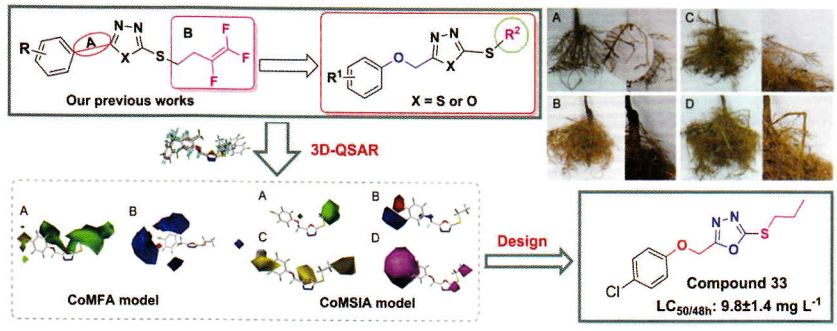
(±)-hinckdentine A
[12 steps (LLS)]

Concise Reports

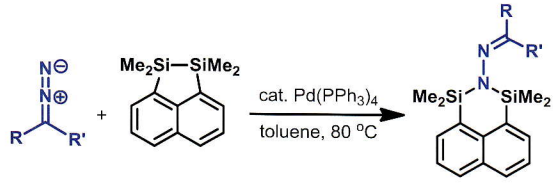


Ar-BR$_2$ = ArB(OH)$_2$, ArB(pin), ArB(nep), (ArBO)$_3$, Ar$_3$B

- simple system
- high efficiency
- wide FG group tolerance

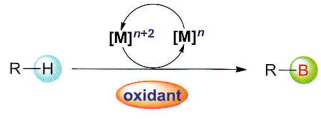


Compound **33** was designed based on the CoMFA and CoMSIA models, which exhibited excellent nematicidal acivity against *Tylenchulus semipenetrans* and was better than avermectin and fosthiazate.

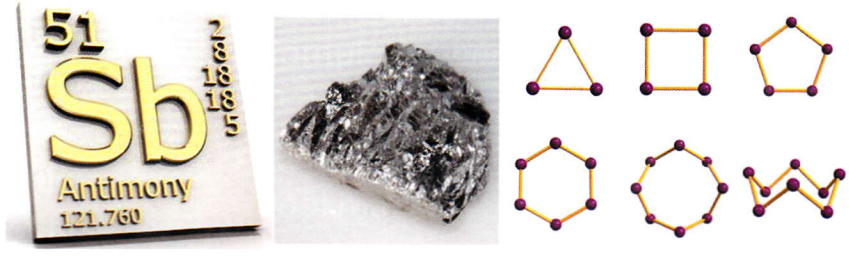


Nitrogen insertion into cyclic Si—Si bonds has been achieved with *N*-tosylhydrazones/diazo compounds as the nitrogen source under Pd(0)-catalyzed conditions.

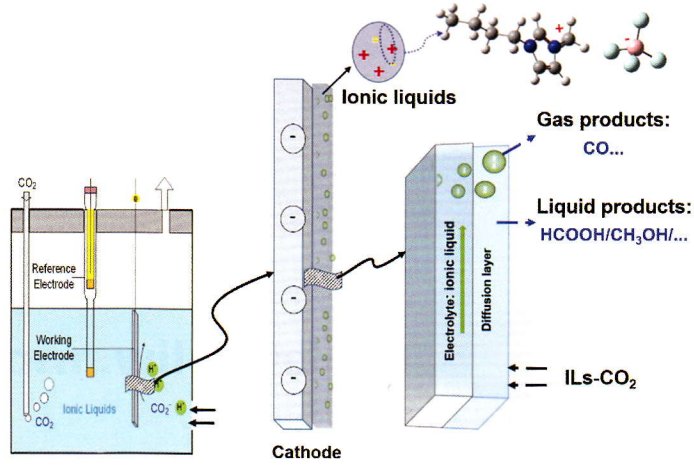
Recent Advances



Direct borylation of C—H bonds became one of the most straightforward methods to provide the organoborane reagents from easily available chemicals. In this article we accounted the recent advances in the direct oxidative borylation from C—H bonds.

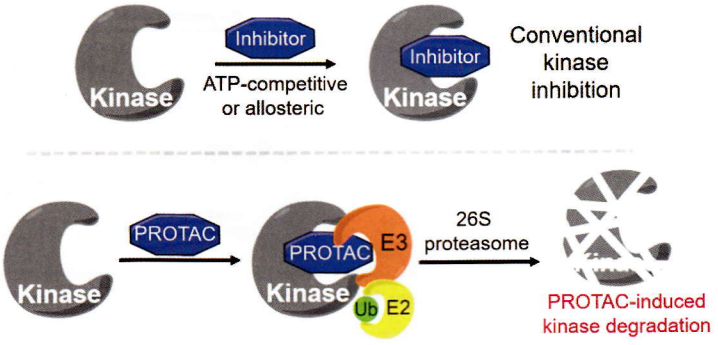


The Sb_n clusters feature unique chemical bonding, fascinating structures, and special stabilities that can be well rationalized by aromaticity or antiaromaticity.



CO_2 electrochemical reduction in ILs system.

Critical Review



Corrigendum

The second author "Qingshan Zhu" and his affiliation "Fritz-Haber-Institut der Max-Planck-Gesellschaft, Faradayweg 4-6, D-14195 Berlin, Germany" should be corrected as "Qingjun Zhu" and "National Institute of Clean-and-Low-Carbon Energy Future Science City, Changping District, Beijing 102211, China", respectively.

