Web of Science

Search History Search Search Results My Tools ▼ **Marked List** 182 of 752 NCBI Look Up Full Text **₽** Save to EndNote online Add to Marked List

Diboron(4) Compounds: From Structural Curiosity to **Synthetic Workhorse**

By: Neeve, EC (Neeve, Emily C.)[1]; Geier, SJ (Geier, Stephen J.)[2]; Mkhalid, IAI (Mkhalid, Ibraheem A. I.)[3]; Westcott, SA (Westcott, Stephen A.)[2]; Marder, TB (Marder, Todd B.)[1]

CHEMICAL REVIEWS

Volume: 116 Issue: 16 Pages: 9091-9161

DOI: 10.1021/acs.chemrev.6b00193

Published: AUG 24 2016 **View Journal Impact**

Abstract

Although known for over 90 years, only in the past two decades has the chemistry of diboron(4) compounds been extensively explored. Many interesting structural features and reaction patterns have emerged, and more importantly, these compounds now feature prominently in both metal-catalyzed and metal-free methodologies for the formation of B-C bonds and other processes.

Keywords

KeyWords Plus: CROSS-COUPLING REACTION; N-HETEROCYCLIC CARBENE; PALLADIUM-CATALYZED BORYLATION; ALPHA, BETA-UNSATURATED CARBONYL-COMPOUNDS; B-B BOND; BORON CONJUGATE ADDITIONS; TRANSITION-METAL-COMPLEXES; ASYMMETRIC BETA-BORATION; C-H BONDS; GAMMA-AMINO ALCOHOLS

Author Information

Reprint Address: Marder, TB (reprint author)

H Univ Wurzburg, Inst Anorgan Chem, D-97074 Wurzburg, Germany.

Reprint Address: Westcott, SA (reprint author)

H Mt Allison Univ, Dept Biochem & Chem, Sackville, NB E4L 1G8, Canada.

Addresses:

[1] Univ Wurzburg, Inst Anorgan Chem, D-97074 Wurzburg, Germany

[2] Mt Allison Univ, Dept Biochem & Chem, Sackville, NB E4L 1G8, Canada

[3] King Abdulaziz Univ, Dept Chem, Jeddah 21413, Saudi Arabia

Organization-Enhanced Name(s)

King Abdulaziz University

E-mail Addresses: swestcott@mta.ca; todd.marder@uni-wuerzburg.de

Funding

Funding Agency	Grant Number
DFG	
University of Wurzburg	
NSERC of Canada	

View funding text

Citation Network

39 Times Cited 916 Cited References View Related Records



Create Citation Alert

(data from Web of Science Core Collection)

All Times Cited Counts

39 in All Databases

39 in Web of Science Core Collection

8 in BIOSIS Citation Index

0 in Chinese Science Citation Database

0 in Data Citation Index

0 in Russian Science Citation Index

0 in SciELO Citation Index

Usage Count

Last 180 Days: 47 Since 2013: 107

Learn more

Most Recent Citation

Braunschweig, Holger. Reaction of Dihalodiboranes(4) with a N-Heterocyclic Silylene: Facile Construction of 1-Aryl-2-Silyl-1,2-Diboraindanes . CHEMISTRY-A EUROPEAN JOURNAL, JUL 18 2017.

View All

This record is from: Web of Science Core Collection

- Science Citation Index Expanded

Suggest a correction

If you would like to improve the quality of the data in this record, please suggest a correction.

Publisher

AMER CHEMICAL SOC, 1155 16TH ST, NW, WASHINGTON, DC 20036 USA

Categories / Classification

Research Areas: Chemistry

Web of Science Categories: Chemistry, Multidisciplinary

Document Information

Document Type: Review Language: English

Accession Number: WOS:000382179100002

PubMed ID: 27434758 **ISSN:** 0009-2665 **eISSN:** 1520-6890

Journal Information

Table of Contents: Current Contents Connect **Impact Factor:** Journal Citation Reports

Other Information IDS Number: DU4JO

Cited References in Web of Science Core Collection: 916

Times Cited in Web of Science Core Collection: 39

182 of 752

© 2017 CLARIVATE ANALYTICS TERMS OF USE PRIVACY POLICY FEEDBACK