
SCHRIFTEN- UND VORTRAGSVERZEICHNIS / LIST OF PUBLICATIONS (07.06.2023)
CHRISTIAN P. SINDLINGER

A) PUBLIKATIONEN NACH BEGUTACHTUNG / PUBLICATIONS WITH PEER-REVIEW:

42. Magda Zweigart, Klaus Eichele, Hartmut Schubert, **C. P. Sindlinger***, Lars Wesemann*
Authentic Sn=B-Double Bonds in Polar Stannaborene Derivatives
Journal of the American Chemical Society **2023**, DOI: doi.org/10.1021/jacs.3c03744.
41. J. Sarcevic, T. Heitkemper, P. N. Ruth, L. Naß, M. Kubis, D. Stalke, **C. P. Sindlinger***
A donor-supported silavinylidene and silylium ylides: boroles as a flexible platform for versatile Si(II) chemistry
Chemical Science, **2023**, *14*, 5148-5159.
40. P. N. Ruth, J. Sarcevic, R. Herbst-Irmer, **C. P. Sindlinger**, D. Stalke*
Linear and bent Cp*₂Si: Phase transition of a key molecule
Angewandte Chemie International Edition, **2023**, *62*, e202301609.
39. M. Auer, J. Bolten, K. Eichele, H. Schubert, **C. P. Sindlinger***, L. Wesemann*
Heavy metalla vinyl-cations show metal-Lewis acid cooperativity in reaction with small molecules (NH₃, N₂H₄, H₂O, H₂)
Chemical Science, **2023**, *14*, 514-524.
38. M. Widemann, S. Jeggle, M. Auer, K. Eichele, H. Schubert, **C. P. Sindlinger***, L. Wesemann*
Hydridotetrylene [Ar*EH] (E = Ge, Sn, Pb) coordination at tantalum, tungsten, and zirconium
Chemical Science, **2022**, *13*, 3999-4009.
Highlighted in *2022 Chem. Sci. Pick of the Week* and *2022 Chem. Sci. HOT Article Collections*
37. M. Golfmann, **C. P. Sindlinger***
Assessing an Elusive 3,4-Dimethyl-Chloroborole
European Journal of Inorganic Chemistry, **2022**, *27*, e202200359.
Highlighted as *Very Important Paper* and part of the EurJIC Talents Collection
36. J. Sarcevic, T. Heitkemper, **C. P. Sindlinger***
Borole-based half-sandwich complexes of germanium and tin
Chemical Communications, **2022**, *58*, 246-249.
35. C. M. Legendre, A. C. Stückl, **C. P. Sindlinger**, R. Herbst-Irmer, D. Stalke*
Isolation and Properties of the Long Elusive Deep Blue Soluble [K₃{(NtBu)₃S}₂]* Cage Radical
Angewandte Chemie International Edition, **2022**, *61*, e202115026
34. T. Heitkemper, L. Naß, **C. P. Sindlinger***
A Boratafulvene
Angewandte Chemie International Edition, **2021**, *60*, 20055 - 20060.
Picked as „Hot Paper“
Highlight in: *Trendberichte – Nachrichten aus der Chemie* **2022**, *70*, 40-51.
33. C. Wilhelm, D. Raiser, H. Schubert, **C. P. Sindlinger**, L. Wesemann*
Phosphine-Stabilized Germanosilylenylidene: Source for a Silicon-Atom Transfer
Inorganic Chemistry **2021**, *60*, 9268 – 9272.

32. J. Kretsch, A. Kreyenschmidt, T. Schillmöller, **C. P. Sindlinger**, R. Herbst-Irmer, D. Stalke*
Group 13 Heavier Carbene Analogues Stabilized by the Bulky Bis(4-benzhydryl-benzoxazol-2-yl)methanide Ligand
Inorganic Chemistry **2021**, *60*, 7389-7398.
31. M. Widemann, K. Eichele, H. Schubert, **C. P. Sindlinger**, S. Klenner, R. Pöttgen, L. Wesemann*
Synthesis and Hydrogenation of heavy homologues of rhodium carbynes: $[(\text{Me}_3\text{P})_2(\text{Ph}_3\text{P})\text{Rh}\equiv\text{E}-\text{Ar}^*]$ (E = Sn, Pb)
Angewandte Chemie International Edition **2021**; *60*, 5882-5889.
Angewandte Chemie **2021**; *133*, 5946-5953.
30. R. J. Mangan, A. R. Davies, J. Hicks, **C. P. Sindlinger**, A. L. Thompson, S. Aldridge*
Synthesis, structure and reactivity of terphenyl-substituted germylium-ylidene cations
Polyhedron **2021**, *196*, 115006.
29. T. Heitkemper, J. Sarcevic, **C. P. Sindlinger***
A Neutral Si(II) Half-Sandwich Compound
Journal of the American Chemical Society **2020**, *142*, 21304-21309.
Highlight in: *Nachrichten aus der Chemie* **2021**, *69* (2), 46-49.
Included in Virtual Issue „Early-Career Researchers in Organic and Inorganic Chemistry“ (ACS)
28. A. Münch, L. Knauer, H. Ott, **C. P. Sindlinger**, R. Herbst-Irmer, C. Strohmann*, D. Stalke*
Insight in Bonding and Aggregation of Alkylolithiums by Experimental Charge Density Studies and Energy Decomposition Analyses
Journal of the American Chemical Society **2020**, *142*, 15897-15906.
27. T. Heitkemper, **C. P. Sindlinger***
An NHC-supported Borole Cation
Chemistry – European Journal **2020**, *26*, 11684-11689.
Cover Feature: DOI: 10.1002/chem.202002763
Highlight in: *Nachrichten aus der Chemie* **2020**, *68* (10), 44-47.
26. T. Heitkemper, L. Naß, **C. P. Sindlinger***
2,5-bis-Trimethylsilyl substituted Boroles
Dalton Transactions **2020**, *49*, 2706-2014.
25. D. Raiser, **C. P. Sindlinger**, H. Schubert, L. Wesemann*
Ge=B π -bonding: Synthesis and Reversible [2+2] Cycloaddition of Germaborenes
Angewandte Chemie International Edition **2020**; *59*, 3151-3155
Angewandte Chemie **2020**; *132*, 3175-3180.
24. R. J. Mangan, A. Rit, **C. P. Sindlinger**, R. Tirfoin, J. Campos, J. Hicks, K. E. Christensen, H. Niu, S. Aldridge*
Activation of Protic, Hydridic and Apolar E–H Bonds by a Boryl-Substituted Ge^{II} Cation
Chemistry – European Journal **2020**, *26*, 306-315.
23. **C. P. Sindlinger***, P. N. Ruth
A Neutral “Aluminocene” Sandwich-Complex: η^1 vs. η^5 -Coordination Modes of a Pentaarylborole with ECp* (E = Al, Ga; Cp* = C₅Me₅).
Angewandte Chemie International Edition **2019**, *58*, 15051 – 15056.
Angewandte Chemie **2019**, *131*, 15193 – 15198.

22. J.-J. Maudrich, M. Wideman, F. Diab, R. H. Kern, P. Sirsch, **C. P. Sindlinger**, H. Schubert, L. Wesemann
Hydridoorganostannylene coordination - Group 4 metallocene dichloride reduction in reaction with organodihydridostannate anions.
Chemistry – European Journal **2019**; *25*, 16081 – 16087.
21. T. Heitkemper, **C. P. Sindlinger***
Electronic Modulation by Push-Pull-Substituents in Pentaaryl Boroles.
Chemistry – European Journal **2019**, *25*, 6628 – 6637.
20. F. Diab, F. S. W. Aicher, **C. P. Sindlinger**, K. Eichele, H. Schubert, L. Wesemann*
Reductive Elimination and Oxidative Addition of Hydrogen at Organostannylum and Organogermylum Cations.
Chemistry – European Journal **2019**, *25*, 4426-4434.
19. **C. P. Sindlinger**, S. R. Lawrence, S. Acharya, C. A. Ohlin, A. Stasch*
PNacPNacE: (E = Ga, In, Tl) – monomeric group 13 metal(I) heterocycles stabilized by a sterically demanding bis(iminophosphoranyl)methanide.
Dalton Transactions **2017**, *46*, 16872-16877.
18. J. A. B. Abdalla, A. Caise, **C. P. Sindlinger**, R. Tirfoin, A. L. Thompson, A. J Edwards, S. Aldridge*
Structural snapshots of concerted double Ga-H bond activation at a transition metal center.
Nature Chemistry **2017**, *9*, 1256 – 1262.
17. J. Schneider, **C. P. Sindlinger**, K. Eichele, H. Schubert, L. Wesemann*
Low-Valent Lead Hydride and Its Extreme Low-Field ¹H NMR Chemical Shift.
Journal of the American Chemical Society **2017**, *139* (19), 6542-6545.
16. **C. P. Sindlinger**, S. R. Lawrence, D. B. Cordes, A. M. Z. Slawin, A. Stasch*
Methanediide Formation via Hydrogen Elimination in Magnesium versus Aluminium Hydride Complexes of a Sterically Demanding Bis(iminophosphoranyl)methanediide.
Inorganics **2017**, *5*(2), 29.
15. J.-J. Maudrich, **C. P. Sindlinger**, F.S.W. Aicher, K. Eichele, H. Schubert, L. Wesemann*
Reductive elimination of hydrogen from bis(trimethylsilyl)methyltin trihydride and mesityltin trihydride.
Chemistry – A European Journal **2017**, *23*, 2192 – 2200.
14. **C. P. Sindlinger***, F.S.W. Aicher, H. Schubert, L. Wesemann*
Reductive Dehydrogenation of a Stannane *via* Multiple Sn-H Activation by Frustrated Lewis-Pairs.
Angewandte Chemie International Edition **2017**, *56*, 2198 – 2202.
Angewandte Chemie **2017**, *129*, 2232 – 2236.
13. **C. P. Sindlinger***, F.S.W. Aicher, L. Wesemann*
Cationic Stannylenes: *in situ*-Generation and NMR spectroscopic characterisation.
Inorganic Chemistry **2017**, *56*, 548 – 560.
12. J. Schneider, **C. P. Sindlinger**, S. M. Freitag, H. Schubert, L. Wesemann*
Diverse Activation Modes in Hydroboration of Aldehydes and Ketones with Germanium, Tin and Lead Lewis pairs.
Angewandte Chemie International Edition **2017**, *56*, 333 – 337.
Angewandte Chemie **2017**, *129*, 339 – 343.

11. D. Dange, **C. P. Sindlinger**, S. Aldridge, C. Jones*
Boryl substituted group 13 meallylenes: complexes with an iron carbonyl fragment.
Chemical Communications **2017**, 53, 149 – 152.
10. **C. P. Sindlinger**, W. Grahneis, S.W. Aicher, L. Wesemann*
Access to base adducts of low-valent organotin hydride compounds by controlled, stepwise hydrogen abstraction from a tetravalent organotin trihydride.
Chemistry – A European Journal **2016**, 22, 7554 – 7566.
9. **C. P. Sindlinger**, L. Wesemann*
Dimeric platinum-stannylene complexes by two-fold ligand transfer from an NHC adduct to an organotin(II) hydride.
Chemical Communications **2015**, 51, 11421-11424.
8. **C. P. Sindlinger**, A. Stasch, H. F. Bettinger, L. Wesemann*
A Nitrogen-base catalyzed generation of organotin(II) hydride from an organotin trihydride under reductive dihydrogen elimination.
Chemical Science **2015**, 6, 4737-4751.
7. **C. P. Sindlinger**, S. Weiß, H. Schubert, L. Wesemann*
Nickel Triad complexes of a side-on coordinating distannene.
Angewandte Chemie International Edition **2015**, 54, 4087-4091.
Angewandte Chemie **2015**, 127, 4160-4164.
6. C. Bolli, J. Derendorf, C. Jenne*, H. Scherer, **C. P. Sindlinger**, B. Wegener
Synthesis and Properties of the Weakly Coordinating Anion $[\text{Me}_3\text{NB}_{12}\text{Cl}_{11}]^-$.
Chemistry – A European Journal **2014**, 20, 13783-13792.
5. **C. P. Sindlinger**, A. Stasch*
Synthesis, structures and flexible coordination of sterically demanding di and „tri“-lithiated methandiides.
Dalton Transactions **2014**, 43, 14334-14345.
4. **C. P. Sindlinger**, L. Wesemann*
Hydrogen abstraction from organotin di- and trihydrides by *N*-heterocyclic carbenes: a new method for the preparation of NHC adducts to tin(II) species and observation of an isomer of a hexastannabenzene derivative $[\text{R}_6\text{Sn}_6]$.
Chemical Science **2014**, 5, 2739-2746.
3. **C. P. Sindlinger**, A. Stasch, L. Wesemann*
Heavy Group 15 Element Compounds of a Sterically Demanding Bis(iminophosphorane)-methanide and –methanediide.
Organometallics **2014**, 33, 322-328.
2. **C. P. Sindlinger**, A. Stasch*
Aluminium Complexes of a Sterically Demanding Bis(iminophosphorane)methanide.
Australian Journal of Chemistry **2013**, 66, 1219-1225.
1. T. Froehr, **C. P. Sindlinger**, U. Kloeckner, P. Finkbeiner, B. J. Nachtsheim*
A Metal-free Amination of Benzoxazoles – The First Example of an Iodide-Catalyzed Oxidative Amination of Heteroarenes.
Organic Letters **2011**, 13, 3754-3757.

B) SONSTIGE ZEITSCHRIFTENBEITRÄGE / FURTHER PUBLICATIONS WITHOUT PEER-REVIEW:

4. **C. P. Sindlinger***
Bor mit Biss – Blickpunkt Nachwuchs im Rahmen des ADUC-Preises
Nachrichten aus der Chemie **2021**, 69, (5) 82-83.
3. **C. P. Sindlinger***, C. Hering-Junghans*
Trendberichte Anorganische Molekülchemie 2020
Nachrichten aus der Chemie **2021**, 69, (1) 52-66.
2. **C. P. Sindlinger***, C. Hering-Junghans*
Trendberichte Anorganische Molekülchemie 2019
Nachrichten aus der Chemie **2020**, 68, (1) 50 – 64.
1. **C. P. Sindlinger***, C. Hering-Junghans*
Trendberichte Anorganische Molekülchemie 2018
Nachrichten aus der Chemie **2019**, 67, (1) 46 – 64.

C) MONOGRAPHIEN / MONOGRAPHS:

2. **C. P. Sindlinger**, Dissertation, Eberhard Karls Universität Tübingen (2015):
„Strategien zur selektiven Dehydrogenierung von Organozinnhydriden und Beiträge zur Chemie ihrer Derivate“.
1. **C. P. Sindlinger**, Diplomarbeit, Eberhard Karls Universität Tübingen (2012): „Untersuchungen zur Darstellung von heterozyklischen Verbindungen der schweren Gruppe 15 Elemente mit mono- und dianionischen Ligandsystemen“.

D) VORTRÄGE NACH AUSWAHLVERFAHREN ODER EINLADUNG / TALKS WITH PEER-REVIEW:

16. **C. P. Sindlinger***
“*Making Use of Anti-Aromatic Destabilization: Boroles in Main Group Chemistry* “
Anorganisches Institutskolloquium, Universität Bonn, 11.05.2023.
15. **C. P. Sindlinger***
“*Of Anti-Aromatic Boron Heterocycles And Low-Valent Main Group Elements (Al, Ga, Si, Ge...)*“
Anorganisches Institutskolloquium, TU München, 16.01.2023.
14. **C. P. Sindlinger***
“*On the chemistry of 2,5-Disilyl-Boroles*“
29th International Conference on Organometallic Chemistry, Prag, 18.07.2022.
13. **C. P. Sindlinger***
“*Boracyclopentadienes and chemical consequences of (weak) antiaromaticity*“
Element-Ligand-Cooperativity Symposium, Heidelberg, 07.04.2022.
12. **C. P. Sindlinger***
“*Boracyclopentadienes and chemical consequences of (weak) antiaromaticity*“
Inorganic Seminar (digital), University of Sussex, 16.03.2022.

11. **C. P. Sindlinger***
“Boracyclopentadienes and chemical consequences of (weak) antiaromaticity”
GDCh Kolloquium, Universität Bremen, 06.12.2021.
 10. **C. P. Sindlinger***
“Borole 2.0 – eine nächste Generation”
Digitale Alumnitage der RWTH Aachen, 13.10.2021.
 9. **C. P. Sindlinger***
“Borole – Funktionalisierung und Koordinationschemie”
Universität Stuttgart, 14.09.2021.
 8. **C. P. Sindlinger***
“Borole – Funktionalisierung und Koordinationschemie”
Digitale Steinheimer Gespräche des FCI 2021, 11.06.2021.
 7. **C. P. Sindlinger***
“Borole – Funktionalisierung und Koordinationschemie”
ADUC-Preisträgervortrag, Digitale Chemiedozententagung 2021, 15.03.2021.
 6. **C. P. Sindlinger***
“Borole – Funktionalisierung und Koordinationschemie”
Karlsruhe Institut für Technologie (KIT), 27.07.2020.
 5. **C. P. Sindlinger***
“Von niedervalenten Zinn-Hydriden zu funktionalisierten Boracyclopentadienen”
Universität Innsbruck, Österreich, 30.04.2019.
 4. **C. P. Sindlinger***
“Bringing them to the Limits – Electronic Modification of Boroles”
GDCh Weihnachtskolloquium, Universität Göttingen, 12.12.2018.
 3. **C. P. Sindlinger***
“The controlled dehydrogenation of stannanes – Precursors for low-valent tin chemistry”
Anorganisch Chemisches Institutskolloquium, Universität Göttingen, 30.01.2018.
 2. **C. P. Sindlinger***
“Cationic Derivatives of Hydrostannylene Base-Adducts”
15th International Conference on Germanium, Tin and Lead 2016, Pardubice, Tschechien,
August 2016.
 1. **C. P. Sindlinger***
“Selective Release of Dihydrogen – Organotin(IV) Hydrides as Precursors for low-oxidation state Sn(II) chemistry”
Dalton 2016, Dalton Division Meeting, Royal Society of Chemistry, Warwick, UK, 26.03.2016.
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Stuttgart, den 07.06.2023