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Erratum

Erratum to “Recent developments in cyclopentadienyl-alkalimetal chemistry” [Coordination Chemistry Reviews 176 (1998) 17–66]☆,☆☆

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Despite the many corrections listed by the author, the publisher regrets that the following errors occurred when this article was originally printed.

On page 35, the first sentence in the third paragraph should read

“Ab initio calculations (RHF/6-31 + G* + ZPE correction) [30] show that electron releasing alkyl substituents destabilize the Cp anion (eqs. 1–2).”

On page 38, Fig. 18 and its legend should have been presented as shown on the next page.

On page 41 the legend to Fig. 21 should read

“Fig. 21. The tetrameric ‘doughnut’ structure of a C_1-bridged dilithio-bis-(cyclopentadienide). The TMEDA ligands are shown as thin black lines.”

☆ PII of original article S0010-8545(98)00113-1.

☆☆ Corrected reprints of the full article are available upon request from the author.

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PII: S0010-8545(99)00132-0

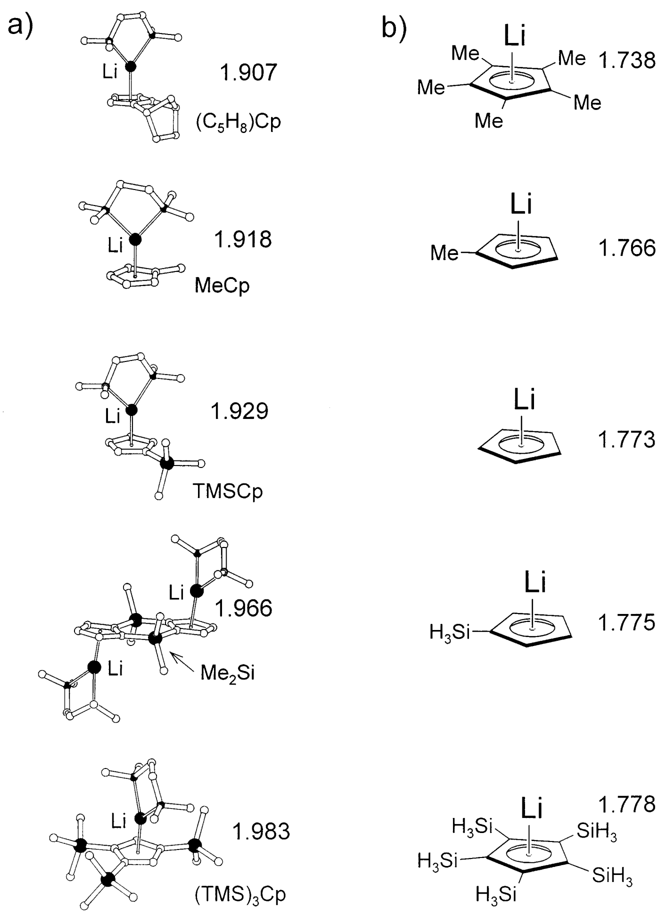


Fig. 18. (a) Crystal structures of TMEDA-solvated CpLi complexes and their corresponding Cp_c–Li distances (Å). (b) Ab initio calculated CpLi complexes (RHF/6-31 + G*) and their corresponding Cp_c–Li distances (Å). All Cp–Li bonding modes are close to η^5.

On page 42 the last column under the heading "Ref." in Table 4 should read

"[92,93]
[94]
[95,96]"

On page 42 the second sentence in the last paragraph should read

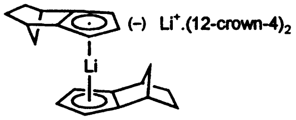
"Not only a wide variety of transition metals, but also the group II alkaline-earth metals [75,76], and even group III (B [99], Al [100,101], As and Sb [102,103], and group IV (Si [104–106], Sn [107,108]) elements have been put between the π-systems of Cp ligands"

On page 45 the third sentence in the first paragraph should read

"The phosphium cations show C_2-symmetry with the phosphorous atom located on a crystallographic twofold axis."

On page 46 the first column under the heading 'Compound formula' in Table 5 should read

$[Cp_2Li^-][Ph_4P^+]$
$[Cp_2Li^-][(Me_2N)_3S^+]$
$[Cp_2Na^-][Ph_4P^+]$
$[Cp_2Na^-][Cp^-][(Me_2N)_3S^+]_2$
$[Cp_3Cs_2^-][Ph_4P^+]$



$[tBuCp_2Li^-][Ph_2PMe_2^+]$

On page 46 the last two paragraphs should be combined as follows:

"The lithocene anion has also been generated in the presence of the weakly coordinating cation, $(Me_2N)_3S^+$ [124,125]. Free Cp anions can be obtained according to eq. (8). Subsequent reaction of the salt $[Cp^-][(Me_2N)_3S^+]$ with CpLi resulted in the formation of the complex $[Cp_2Li^-][(Me_2N)_3S^+]$ which was structurally characterized by X-ray diffraction [124,125]. The lithocene anion in this complex is, similar to that in $[Cp_2Li^-][Ph_4P^+]$, a staggered sandwich was approximate D_{5d} symmetry"

On page 48 the two paragraphs should be combined as follows:

"Isodicyclopentadienide lithium crystallizes from THF solution in the presence of an excess of 12-crown-4 as an anionic sandwich complex [129] (Fig. 26). In the crystal structure, one of the two Li cations is solvated with two 12-crown-4 ligands. Like the phosphonium…"

On page 49 the first two full paragraphs should be combined as follows:

> “Recently the crystal structure of another substituted lithocene anion was revealed accidentally (eq. 9) [130]. The structure of the Bu^t-substituted lithocene anion is a staggered sandwich (Fig. 28) in which the Cp rings are nearly coplanar (the angle between the planes is 2.5°). The Cp–Li distances in this anion are comparable to those observed in the lithocene anions described previously (Table 5). This complex $[(Bu^tCp)_2Li^-][Ph_2PMe_2^+]$, can also be prepared in 70% yield from the reaction of $[Ph_2PMe_2^+][CF_3SO_3^-]$ with 2 molEq. of Bu^tCpLi [130].”

On page 60 there should be no new paragraph until section 4.6 begins. The text should run as follows:

> “In that case the perfectly linear structure of $[Cp_2Na^-]$ is just a coincidence which is caused by crystallization of this compound in a centrosymmetric spacegroup with the $[Cp_2Na^-]$ units on crystallographic inversion centres. The structure of the triple-decker $[Cp_3Cs_2^-]$ shows considerable bending of the Cp–Cs–Cp unit (115.6°). Similar, the...”

In the reference list the following references were printed incorrectly. They are listed below in their correct form.

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[84] P. von R. Schleyer, T. Clark, A.J. Kos, et al., J. Am. Chem. Soc. 106 (1984) 6467.
[89] S. Harder, J. Boersma, L. Brandsma, J.A. Kanters, W. Bauer, R. Pi, P. von R. Schleyer, H. Schöllhorn, U. Thewalt, Organometallics 8 (1989) 1688.
[101] C. Dohmeier, H. Schnöckel, C. Robl, U. Schneider, R. Ahlrichs, Angew. Chem., Int. Ed. Engl. 32 (1993) 1655.
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[161] M. Kaupp, P. von R. Schleyer, M. Dolg, H. Stoll, J. Am. Chem. Soc. 114 (1992) 8202.
[162] Chem. Abstr. 123 (1995) 143950d.
[163] Private communication with Prof. Dr. A. Salzer.