## **Additions and Corrections**

## 1999, Volume 38

Takafumi Yoshida, Takayoshi Suzuki, Kan Kanamori, and Sumio Kaizaki\*: Synthesis, Magnetic Properties, and Electronic Spectra of Octahedral Mixed-Ligand  $(\beta$ -Diketonato)nickel(II) Complexes with a Chelated Nitronyl Nitroxide Radical.

Pages 1064, 1066, and 1067. We made reverse assignments to two doublet-doublet MLCT, because the formulation for the MLCT transition energies should be  $30(\chi(\text{Ni}) - \chi(\text{NIT})) +$ (5/3)D + (6/5)D' for  $E(t_{2g} \rightarrow \pi^*)$  and  $30(\chi(\text{Ni}) - \chi(\text{NIT})) - \Delta$ + (5/3)D + (6/5)D' for  $E(e_g \rightarrow \pi^*)$ .

Page 1064. The last paragraph continuing on the next page should be replaced with the following, though the first sentence remains unchanged:

There are three possible MLCT transitions: two  $t_{2g} \rightarrow \pi^*$ transitions (doublet-doublet and quartet-quartet) and one eg  $\rightarrow \pi^*$  doublet-doublet transition (Scheme 1). In the doubletdoublet MLCT for octahedral Ni(II) complexes, the transition energy is estimated to be  $30(\chi(\text{Ni}) - \chi(\text{NIT})) + (5/3)D + (6/5)D'$  for  $E(t_{2g} \rightarrow \pi^*)$  and  $30(\chi(\text{Ni}) - \chi(\text{NIT})) - \Delta + (5/3)D$ + (6/5)D' for  $E(e_g \rightarrow \pi^*)$ , where  $\chi(Ni)$  and  $\chi(NIT)$  refer to the optical electronegativity for nickel(II) and the NIT2-py ligand, respectively:  $\Delta$  is the energy splitting between the t<sub>2g</sub> and e<sub>g</sub> orbitals; (5/3)D is the change in the spin pairing energies from the  $d^8(S=1)$  to the  $d^7(S=1/2)$  electron configurations, and (6/5)D' corresponds to that from the  $p^1(S=1/2)$  to  $p^2(S=0)$ one.<sup>36,37</sup> The energy difference between two doublet-doublet MLCT  $(E(t_{2g} \rightarrow \pi^*) - E(e_g \rightarrow \pi^*))$  is given by  $\Delta$  and approximated to ca. 9800 and 10500 cm<sup>-1</sup> for the bis(acac) and mono(acac) complexes, respectively, since  $\Delta$  are estimated from the first spin-allowed band position. Therefore, the lower energy MLCT components around 16.0–19.0  $\times$  10<sup>3</sup> cm<sup>-1</sup> and the shoulder around  $25.0 \times 10^3$  cm<sup>-1</sup> are due to the e<sub>g</sub>  $\rightarrow \pi^*$  and the  $t_{2g} \rightarrow \pi^*$  MLCT transitions, respectively.

Page 1066. The assignments to the MLCT in Figure 11 should be corrected in such a way that the  $t_{2g} \rightarrow \pi^*$  and  $e_g \rightarrow \pi^*$  are exchanged as shown in the revised Figure 11.

Page 1067. As a result, "the  $t_{2g}-\pi^*$  in line 6 should read "the  $e_g-\pi^*$ ".

This correction for the MCLT assignment could give no change of the subsequent discussion.



**Figure 11.** Energy levels of the spin-allowed and spin-forbidden d-d transitions in the  $\beta$ -diketonato Ni(II) complexes with NIT2-py.

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James Bourassa, Brian Lee, Stefan Bernhard, Jon Schoonover, and Peter C. Ford\*: Flash Photolysis Studies of Roussin's Black Salt Anion:  $Fe_4S_3(NO)_7^-$ .

Page 2947. There was a spelling error in the name of one of the authors (Stefan Bernhard). The correct list of authors should be as follows: James Bourassa, Brian Lee, Stefan Bernhard, Jon Schoonover, and Peter C. Ford.

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