

Supporting Information

For

(μ - η^2 : η^2 -Disulfido)dinickel(II) complexes supported by 6-methyl-TPA ligands

Atsushi Kunisita,[†] Masayuki Inosako,[‡] Minoru Kubo,[§] Takashi Ogura,[§]
Hideki Sugimoto,[†] and Shinobu Itoh^{†,*}

[†]*Department of Material and Life Science, Division of Advanced Science and Biotechnology,
Graduate School of Engineering, Osaka University, 2-1 Yamada-oka, Suita, Osaka 565-0871,
Japan*

[‡]*Department of Chemistry, Graduate School of Science, Osaka City University, 3-3-138
Sugimoto, Sumiyoshi-ku, Osaka 558-8585, Japan*

[§]*Research Institute of Picobiology, Graduate School of Life Science, University of Hyogo,
3-2-1 Kouto, Kamigori-cho, Ako-gun, Hyogo 678-1297, Japan*

Fig. S1

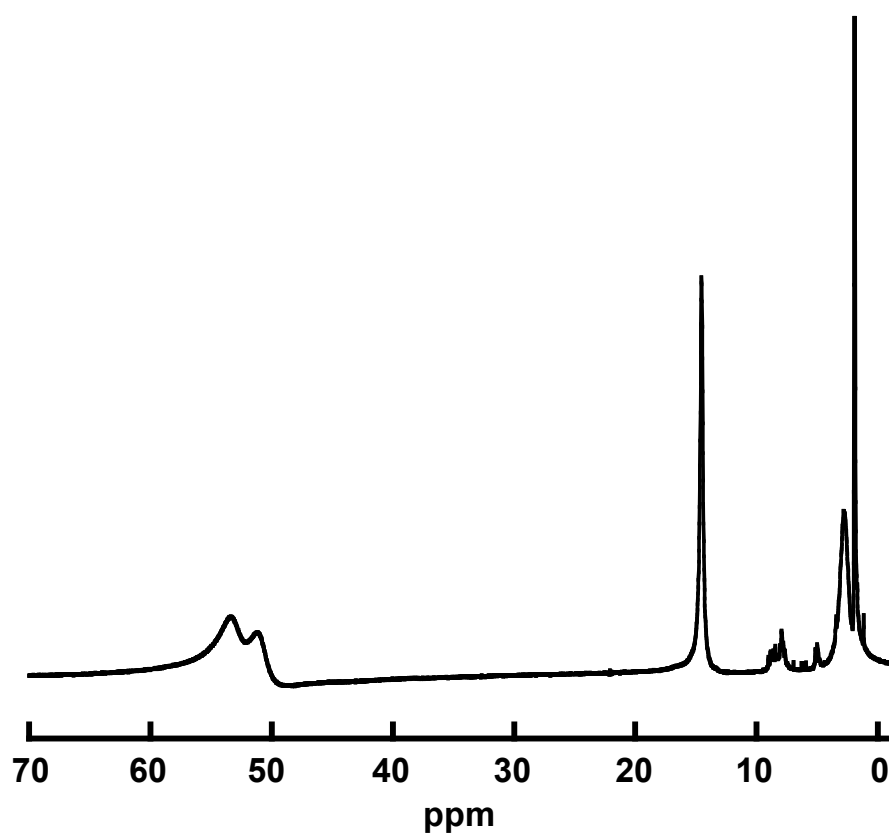


Fig S1. ¹H NMR spectrum of **1⁰** in CD₃CN at 25 °C. Spectrum is referenced to the residual proton of solvent CHD₂CN at 1.94 ppm.

Fig. S2

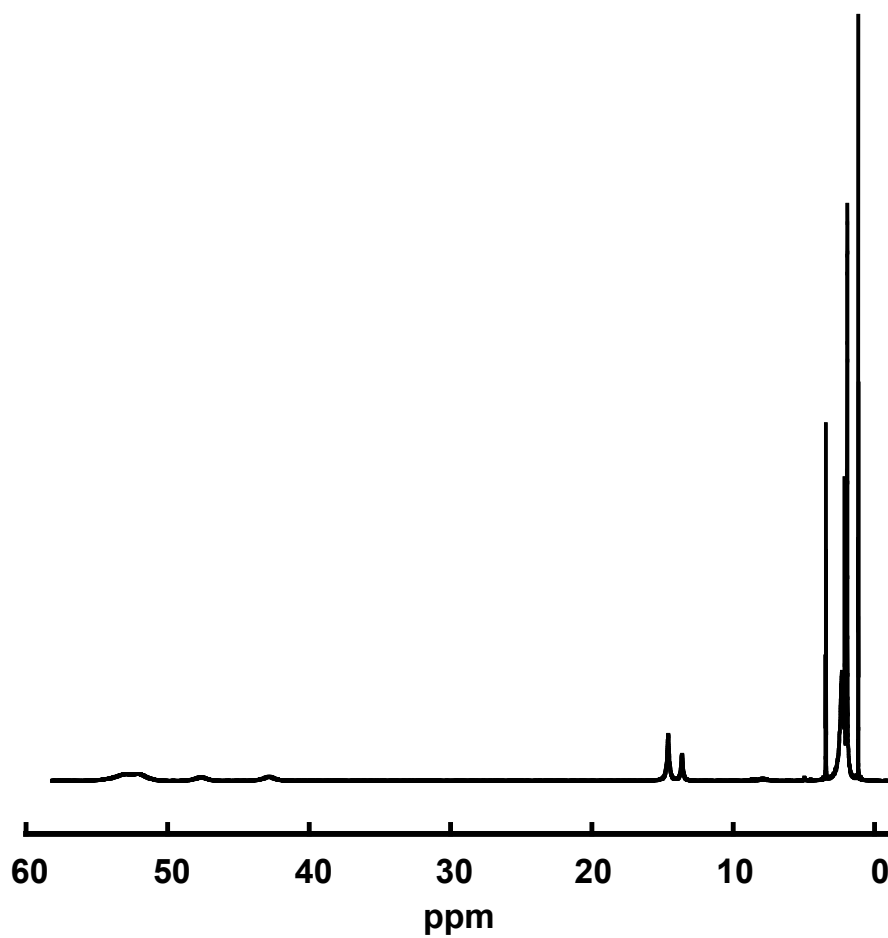


Fig S2. ¹H NMR spectrum of **1**¹ in CD₃CN at 25 °C. Spectrum is referenced to the residual proton of solvent CHD₂CN at 1.94 ppm.

Fig. S3

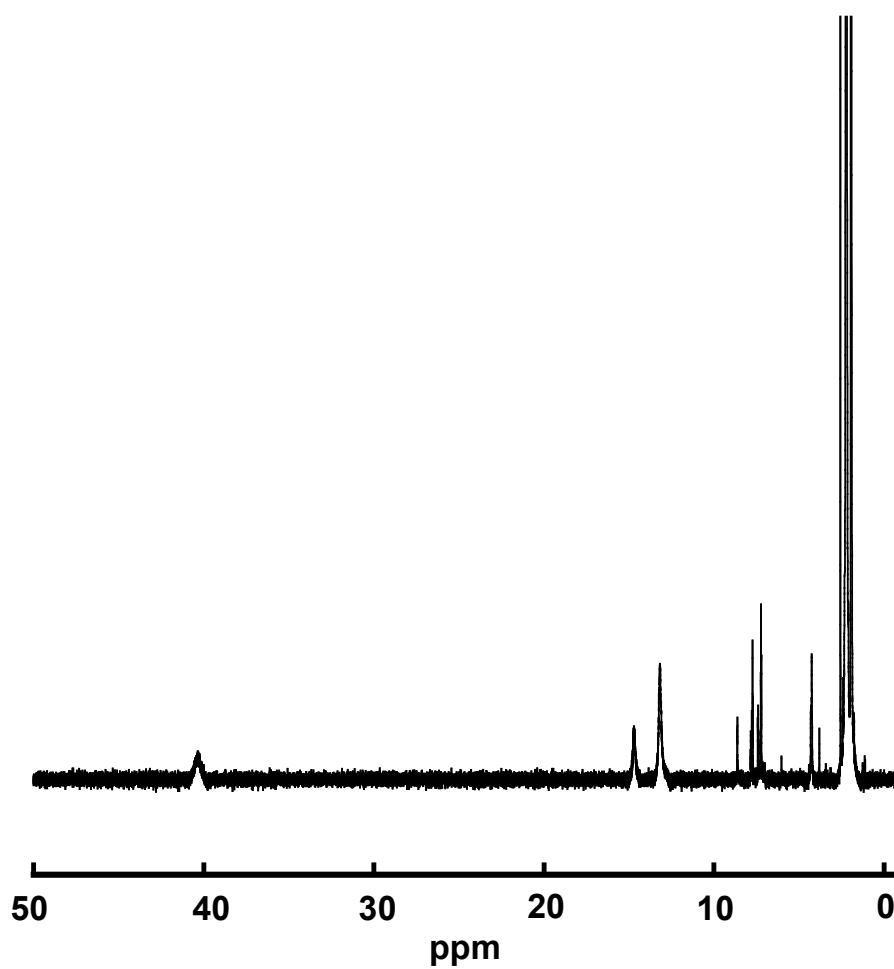


Fig S3. ¹H NMR spectrum of **1²** in CD₃CN at 25 °C. Spectrum is referenced to the residual proton of solvent CHD₂CN at 1.94 ppm.

Fig. S4

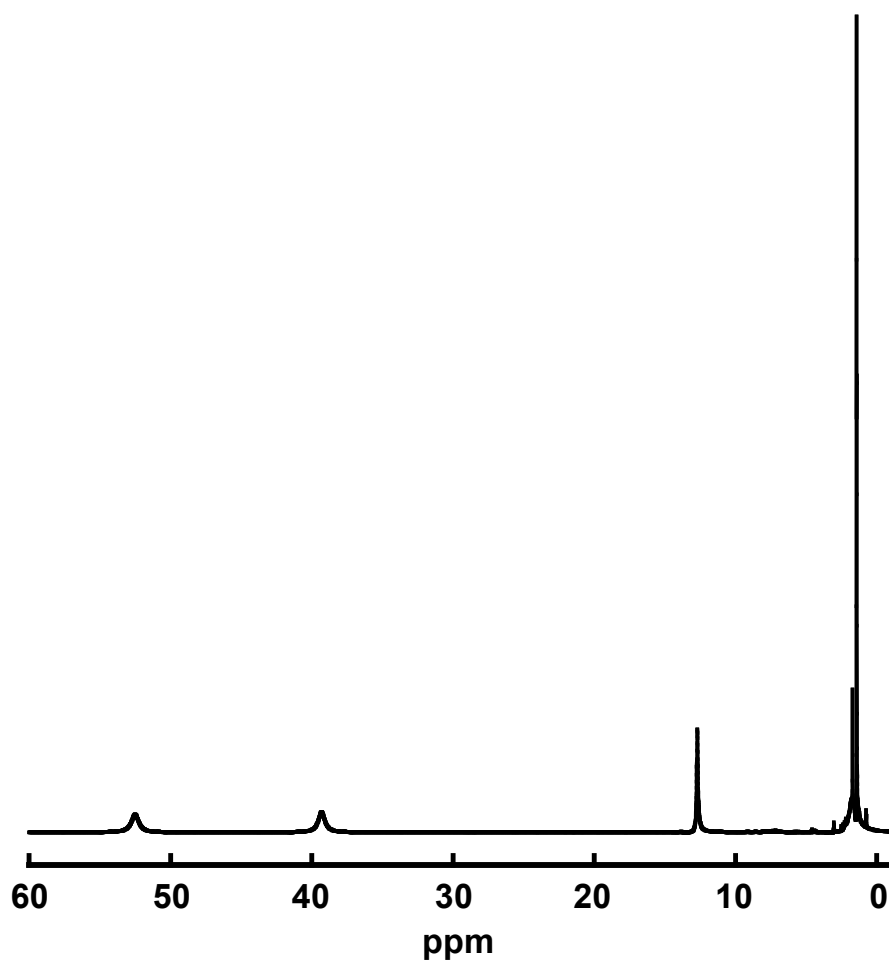


Fig S4. ¹H NMR spectrum of **1³** in CD₃CN at 25 °C. Spectrum is referenced to the residual proton of solvent CHD₂CN at 1.94 ppm.

Fig. S5

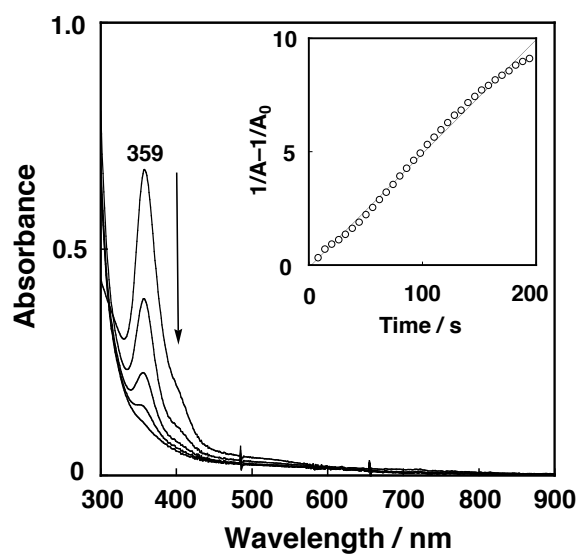


Fig. S5 Spectral changes for the reaction of 2^0 (1.0×10^{-4} M) and PPh_3 (1.0×10^{-4} M) in CH_2Cl_2 at 30 °C. Inset: Second-order plot based on the absorption change at 359 nm.

Fig. S6

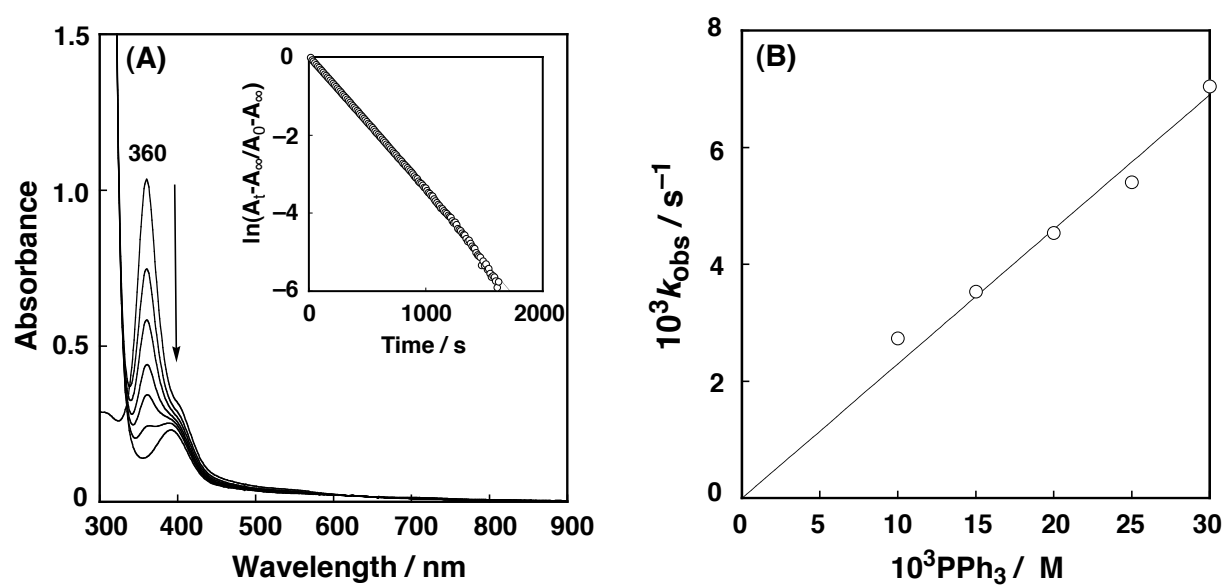


Fig. S6 (A) Spectral changes of the reaction of 2^2 (1.0×10^{-4} M) and PPh_3 (1.5×10^{-2} M) in CH_2Cl_2 at 30 °C. Inset: first-order plot based on the absorption change at 360 nm. (B) Plot of k_{obs} vs $[\text{PPh}_3]$

Fig. S7

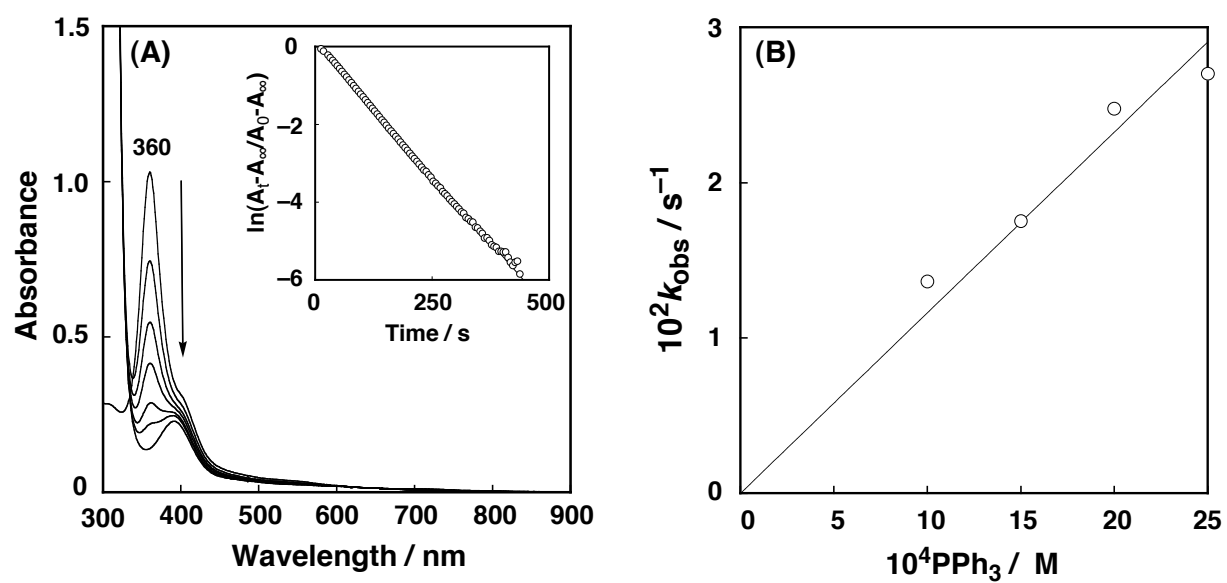


Fig. S7 (A) Spectral changes of the reaction of 2^3 (1.0×10^{-4} M) and PPh_3 (1.0×10^{-3} M) in CH_2Cl_2 at 30°C . Inset: first-order plot based on the absorption change at 360 nm. (B) Plot of k_{obs} vs $[\text{PPh}_3]$