

## 1.1: Original Sources of Experiments

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Experiment 8: *Preparation of  $\text{Ph}_2\text{PCH}_2\text{CH}_2\text{PPh}_2$  (dppe) and  $\text{NiCl}_2(\text{dppe})$*

Experiment 11: *Metal-Metal Quadruple Bonds in Chromium (II) Acetate*

Experiment 12: *The Paramagnetic Complex  $\text{Mn}(\text{acac})_3$*

Experiment B: *Synthesis and Properties of Silver Nanowires*

Experiment H: *Synthesis and Hydrogenation with Wilkinson's Catalyst*

Experiments 8, 11, and 12 are from the assigned textbook, *Synthesis and Technique in Inorganic Chemistry, A Laboratory Manual*, Third Edition, Girolami, G. S., Rauchfuss, T. B., Angelici, R. J. **1999**, University Science Books. Experiment 11 is modified to prepare  $\text{Cr}_2(\text{O}_2\text{CCH}_3)_4 \cdot 2\text{H}_2\text{O}$  instead of the Mo analog.

Experiment B is adapted from Hu, L., Kim, H. S., Lee, J.-Y., Peumans, P., Cui, Y. Scalable Coating and Properties of Transparent, Flexible, Silver Nanowire Electrodes. *ACS Nano* **2010**, 4, 2955-2963 for background and synthetic procedure (first or second paragraph).

Experiment H is adapted from Experiment 34 in Szafran, Z.; Pike, R. M.; Singh, M. M. *Microscale Inorganic Laboratory*, **1991**, John Wiley.

The following TAs will be in charge of grading and supervising the following experiments. However, any TA on duty can be consulted while the lab work is being carried out.

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