

Organometallics in Synthesis: Fourth Manual

By Bruce H. Lipshutz

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Provides detailed procedures and useful hints on organometallic reactions of Cu, Rh, Ni, and Au

With contributions from leading organic chemists who specialize in the use of organometallics in organic synthesis, this acclaimed *Manual* offers an especially valuable resource for all synthetic chemists, providing a practical reference for conducting transition metal-mediated synthetic reactions. This *Fourth Manual* is divided into four chapters:

- Chapter I: Organocopper Chemistry
- Chapter II: Organorhodium Chemistry
- Chapter III: Organonickel Chemistry
- Chapter IV: Organogold Chemistry

Each of these newly written chapters features detailed, practical examples from the literature that guide readers through the preparation of organometallic reagents and their applications in organic synthesis. Procedures are presented in the *Manual's* acclaimed step-by-step recipe format, enabling both novices and experienced synthetic chemists to perform all the reactions with ease. In addition, the *Manual* features:


- Extensive background information on the organometallic chemistry of Cu, Rh, Ni, and Au
- References to the primary literature facilitating further investigation of all the reactions covered in the *Manual*
- Mechanistic considerations to help readers better understand how the desired products are formed
- Future research opportunities for each organometallic class

Organometallics in Synthesis provides extensive and detailed information enabling synthetic chemists to readily assess the applicability of a synthetic method to a given need, and then to perform the reaction with confidence. The *Manual* covers both established organometallic procedures along with the most recently published protocols.

Industrial processes are increasingly relying on organometallic chemistry. In this

Manual, readers will find applications to such fields as natural products total synthesis, pharmaceuticals, fine chemicals, biotechnology, agricultural science, polymers, and materials science.

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Editorial Review

Review

“Given the costs in consumables and human resources resulting from a failed or inefficient synthesis, it would seem a worthwhile addition to library of the synthetic laboratory.” (*Applied Organometallic Chemistry*, 18 August 2014)

About the Author

BRUCE H. LIPSHUTZ is Professor of Chemistry at the University of California, Santa Barbara. Much of Dr. Lipshutz's scientific career has been dedicated to developing new reagents and synthetic methodologies, especially those involving organometallics. Among his many awards, Dr. Lipshutz has received an Alfred P. Sloan Foundation Fellowship, Camille & Henry Dreyfus Teacher-Scholar Award, an ACS Cope Scholar Award, the Presidential Green Chemistry Challenge Award (2011), and the EROS Best Reagent of the Year Award (2012).

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