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BOOK REVIEW

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Book Review of Name Reactions for Carbocyclic Ring Formations

Name Reactions for Carbocyclic Ring Formations. Edited by Jie Jack Li. John Wiley & Sons, Inc., Hoboken, NJ. 2010. xvi + 756 pp. 19.5 × 24 cm. ISBN 978-0-470-08506-6. $149.95.

This volume represents another excellent compilation edited by Jie Jack Li. The previous volumes of *Comprehensive Name Reactions* covered heterocyclic chemistry, functional group manipulations, and homologations. Thankfully, other volumes are forthcoming, and I anticipate their being as useful as the current volumes. The current volume covers one of my favorite topics. Carbocyclic rings are found in many natural products, and these have appropriately attracted a great deal of attention from synthetic chemists in the chemical and pharmaceutical industries. This compilation serves the reader with an overview of synthetic approaches and methods applied to carbocyclic ring synthesis. The topics are thoughtfully presented, and information is structured for ease of use. The information is presented in six chapters, one per carbocyclic ring size, i.e., three-membered carbocycles through six-membered carbocycles, a chapter on large-ring carbocycles, and a chapter on transformations of carbocycles. Each chapter is structured by name reactions and includes a thorough review of the synthetic tools available to synthesize each type of carbocyclic ring discussed. All chapters include similar information: description, historical perspective, mechanism, any known variations and improvements, synthetic utility (examples), experimental procedures, and pertinent references.

A table of contents, including the contents of previous volumes in this series, a listing of contributing authors, and a general index are included. The volume is significant in that it provides information that is easy to retrieve in a given area of interest and provides a rich source of information for the practicing chemist and highlights the diversity of reactions and techniques.

This compilation should be welcomed by anyone involved in the practice or teaching of organic synthesis, as it represents an overview of important synthetic methods in use today for the construction of carbocylic rings.

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