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The series *Topics in Organometallic Chemistry* presents critical overviews of research results in organometallic chemistry. As our understanding of organometallic structure, properties and mechanisms increases, new ways are opened for the design of organometallic compounds and reactions tailored to the needs of such diverse areas as organic synthesis, medical research, biology and materials science. Thus the scope of coverage includes a broad range of topics of pure and applied organometallic chemistry, where new breakthroughs are being achieved that are of significance to a larger scientific audience.

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Yoshiaki Nishibayashi
Editor

Nitrogen Fixation

With contributions by

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ISSN 1436-6002 ISSN 1616-8534 (electronic)
Topics in Organometallic Chemistry
ISBN 978-3-319-57713-5 ISBN 978-3-319-57714-2 (eBook)
DOI 10.1007/978-3-319-57714-2

Library of Congress Control Number: 2017939687

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Printed on acid-free paper

This Springer imprint is published by Springer Nature
The registered company is Springer International Publishing AG
The registered company address is: Gewerbestrasse 11, 6330 Cham, Switzerland

Preface

Detailed studies of the preparation of various transition metal–dinitrogen complexes and their reactivity have been achieved in the past 50 years. This volume is not intended to provide a comprehensive view of Nitrogen Fixation by using transition metal–dinitrogen complexes but to focus on recent advances of the explosive field in the last decade. Although many research groups have already reported their excellent results, the authors representing the field have introduced their latest achievements in this volume.

I believe that this volume will be helpful to researchers, teachers, and students who are interested in innovative and sustainable chemistry. I would like to thank all the contributors for their participation in this project and their enthusiastic efforts to present recent advances of Nitrogen Fixation by using transition metal–dinitrogen complexes. I anticipate that their contributions will stimulate further study in Nitrogen Fixation. I would like also to offer my warm thanks to the Springer Nature team for their continuous support. Finally, I deeply appreciate the staff and students in my research group for their valuable assistance.

Tokyo, Japan
December 2016

Yoshiaki Nishibayashi

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