Table of Contents

Science of Synthesis Reference Library
Catalytic Oxidation in Organic Synthesis
© Georg Thieme Verlag KG

2.2 Catalytic Oxidations with Hypervalent Iodine

F. V. Singh and T. Wirth

2.3 Water as an Oxygen Source for Oxidation Reactions

P. Garrido-Barros, I. Funes-Ardoiz, P. Farràs, C. Gimbert-Suriñach, F. Maseras, and A. Llobet

Science of Synthesis Reference Library
Catalytic Oxidation in Organic Synthesis
© Georg Thieme Verlag KG

2.4 Dehydrogenation
Y. Kayaki and T. Ikariya

2.5 Biomimetic Oxidation in Organic Synthesis
L. Vicens, M. Borrell, and M. Costas

Science of Synthesis Reference Library
Catalytic Oxidation in Organic Synthesis
© Georg Thieme Verlag KG

3 **Metal-Catalyzed Oxidation of Alkanes To Give Esters or Amines**
A. Caballero, M. M. Díaz-Requejo, and P. J. Pérez

4 **Allylic, Benzylic, and Propargylic Oxidation**
P. Chen and G. Liu

Science of Synthesis Reference Library
Catalytic Oxidation in Organic Synthesis
© Georg Thieme Verlag KG

Science of Synthesis Reference Library
Catalytic Oxidation in Organic Synthesis
© Georg Thieme Verlag KG

5.2 **Dioxygenation of Alkenes**
C. Martínez and K. Muñiz

Science of Synthesis Reference Library
Catalytic Oxidation in Organic Synthesis
© Georg Thieme Verlag KG

Science of Synthesis Reference Library
Catalytic Oxidation in Organic Synthesis
© Georg Thieme Verlag KG

5.4 **Halogenation and Halocyclization of Alkenes**
A. Andries-Ulmer and T. Gulder

Science of Synthesis Reference Library
Catalytic Oxidation in Organic Synthesis
© Georg Thieme Verlag KG

5.5 **The Wacker Process**
N. J. Race, H. H. Patel, and M. S. Sigman

6 **Sulfinyl- and Sulfonyl-Containing Directing Groups in C—H Oxidation of Arenes**
R. Gómez-Arrayas and N. Rodríguez

Science of Synthesis Reference Library
Catalytic Oxidation in Organic Synthesis
© Georg Thieme Verlag KG

Science of Synthesis Reference Library
Catalytic Oxidation in Organic Synthesis
© Georg Thieme Verlag KG

8.2 **Enantioselective Oxidation of Alcohols**

B. M. Stoltz, A. C. Wright, D. C. Ebner, and N. Park

Science of Synthesis Reference Library
Catalytic Oxidation in Organic Synthesis
© Georg Thieme Verlag KG

9 **Catalytic Aerobic Oxidation of Phenols**
J.-P. Lumb and K. V. N. Esguerra

10 **α-Oxidation of Carbonyl Compounds**
M. Uyanik and K. Ishihara

Science of Synthesis Reference Library
Catalytic Oxidation in Organic Synthesis
© Georg Thieme Verlag KG

Science of Synthesis Reference Library
Catalytic Oxidation in Organic Synthesis
© Georg Thieme Verlag KG

Science of Synthesis Reference Library
Catalytic Oxidation in Organic Synthesis
© Georg Thieme Verlag KG

Science of Synthesis Reference Library
Catalytic Oxidation in Organic Synthesis
© Georg Thieme Verlag KG