

Contents

Noncovalent Organocatalysis Based on Hydrogen Bonding: Elucidation of Reaction Paths by Computational Methods	1
Kerstin Etzenbach-Effers and Albrecht Berkessel	
Enamine Catalysis	29
Petri M. Pihko, Inkeri Majander, and Anniina Erkkilä	
Carbene Catalysts	77
Jennifer L. Moore and Tomislav Rovis	
Brønsted Base Catalysts	145
Amal Ting, Jennifer M. Goss, Nolan T. McDougal, and Scott E. Schaus	
Chiral Ketone and Iminium Catalysts for Olefin Epoxidation	201
O. Andrea Wong and Yian Shi	
Amine, Alcohol and Phosphine Catalysts for Acyl Transfer Reactions ...	233
Alan C. Spivey and Stellios Arseniyadis	
Secondary and Primary Amine Catalysts for Iminium Catalysis	281
John B. Brazier and Nicholas C.O. Tomkinson	
Lewis Acid Organocatalysts	349
Oksana Sereda, Sobia Tabassum, and René Wilhelm	
Chiral Brønsted Acids for Asymmetric Organocatalysis	395
Daniela Kampen, Corinna M. Reisinger, and Benjamin List	
Index	457