

Catalytic Asymmetric Reactions in Organic Chemistry: Bibliography

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1. Introduction

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2. LUMO Activation

2.1 Lewis and Brønsted acids activation of carbonyl and imines

2.1.1 Aldol Reaction

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2.1.4 Mannich Reaction

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2. LUMO Activation

2.2 Lewis and Brønsted acids activation of extended p- systems of carbonyl and imines

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2.2.2 Diels Alder reaction

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2.2.3 [3+2] Cycloaddition

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2.2.4 Other Reactions

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1. LUMO Activation

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2.4. Activation of electrophiles other than carbonyl/imines

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2.4.6 Other Reactions

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2.5. Activation of Allylic Systems

2.5.1 Asymmetric Electrophilic Allylation: Pd

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2.5.2 Asymmetric Electrophilic Allylation: Ir

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2.5.2 Mo and Ru

Mo

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2.7. Chiral Acylation

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Catalytic Asymmetric Reactions in Organic Chemistry: Bibliography

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3. Homo Activation

3.1 Chiral enolate generation

3.1.1 Chiral Enolates via Deprotonation

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3.3 Phase-Transfer Catalysis

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3.4 Chiral Ylides Generation

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4. Dual Activation

4.1 Brønsted acid / base dual activation

4.1 Addition to Carbonyl and Imines

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4.2 Conjugate Addition

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4.2 Enamide-Acid Dual Activation

4.2.1 Proline

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4.3 Metal-Ligand Dual Activation

4.3.1 Reaction with Carbonyls and Imines

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4.4 Dual Activation on Two Metal Centers

4.4.1 Addition to Carbonyl and Imines: Aldol and Mannich

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4.5 Dual Activation on A Single Metal Center: Activated Systems

4.5.1 Aldol, Mannich and Allylation Reactions

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4.5.5 Conjugate Addition

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4.6 Dual Activation on A Single Metal Center: Non-Activated Systems

4.6.1 Functionalization of Non-Activated Olefins

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4.6.4 Cross-Coupling Reactions

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4.6.5 CH Functionalization

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5. Catalytic Umpolung

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5.2 SOMO Activation

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