

1. Record Nr.	UNINA9910133857603321
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Titolo	Asymmetric Synthesis II [[electronic resource]] : More Methods and Applications
Pubbl/distr/stampa	Weinheim, : Wiley, 2013
ISBN	3-527-65223-X 3-527-65225-6 1-299-47604-X 3-527-65226-4
Descrizione fisica	1 online resource (432 p.)
Altri autori (Persone)	Br?seStefan
Disciplina	541.39
Soggetti	Asymmetric synthesis Chemistry Physical Sciences & Mathematics Organic Chemistry Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Asymmetric Synthesis; Contents; List of Contributors; 1 Catalytic Enantioselective Alkylation of Prochiral Ketone Enolates; Background; Strategy and Results; Asymmetric Allylic Alkylation in Total Synthesis; Conclusions; CV of Corey M. Reeves; CV of Brian M. Stoltz; References; 2 Point-to-Planar Chirality Transfer in Total Synthesis: Scalable and Programmable Synthesis of Haouamine A and Its Atropisomer; Introduction; Synthetic Strategy Featuring Point-to-Planar Chirality Transfer; Programmable Synthesis of Haouamine A and Its Atropisomer; CV of Noah Z. Burns; CV of Phil S. Baran; References 3 Tethered AminohydroxylationIntroduction and Background; Tethered Aminohydroxylation; a) First Generation of Reoxidants; b) N-Sulfonyloxy Carbamates; c) Carbonyloxycarbamates as Reoxidants for Osmium; Amide-Based Reoxidants; Evidence for the Mechanism of the TA Reaction; Applications in Organic Synthesis; Conclusion and Future Work; CV of Timothy J. Donohoe; CV of Stefanie Mesch; References; 4 Organocatalyzed Transformations of a, b-Unsaturated Carbonyl

Compounds through Iminium Ion Intermediates; CV of Nicholas C. O. Tomkinson; CV of Julian H. Rowley; References

5 The Renaissance of Silicon-Stereogenic Silanes: A Personal AccountBackground; Results; a) Intermolecular Chirality Transfer from Silicon to Carbon: Diastereoselective Palladium(II)-Catalyzed C-Si Bond Formation; b) Silicon-Stereogenic Silane as Stereochemical Probe: B(C₆F₅)₃-Catalyzed Carbonyl Reduction; c) Kinetic Resolution with Silicon-Stereogenic Silanes: Cu-H-Catalyzed Diastereoselective Si-O Coupling; Conclusion; CV of Martin Oestreich; CV of Andreas Weickgenannt; References; 6 Asymmetric Dienamine Activation; Introduction; Historic Background; Results; Conclusion CV of Mathias ChristmannReferences; 7 Asymmetric Brønsted Acid Catalysis; Introduction and Background; Strategy; Results; Summary; CV of Iuliana Atodiresei; CV of Uxue Uria; CV of Magnus Rueping; References; 8 Quaternary Stereogenic Centers by Enantioselective β -Carbon Eliminations from tert-Cyclobutanol; Background; Objective: Enantioselective Formation of Quaternary Stereogenic Centers in Combination with Reactive Alkyl-Rhodium Intermediates; Selective Generation of the Alkyl-Rhodium Species and Its Downstream Reactivities; CV of Nicolai Cramer; CV of Tobias Seiser; References

9 Total Synthesis of Oseltamivir and ABT-341 Using One-Pot TechnologyIntroduction; Results; a) Total Synthesis of (-)-Oseltamivir via Two One-Pot Processes; b) Total Synthesis of ABT-341 by One-Pot Sequence; Conclusions; CV of Yujiro Hayashi; CV of Hayato Ishikawa; References; 10 Enantioselective Annulations with Chiral N-Mesityl N-Heterocyclic Carbenes; Introduction; Catalytic Generation of Chiral Enolate Equivalents; Catalytic Generation of Homoenate Equivalents; Enantioselective Cascade Reactions Catalyzed by Chiral N-Heterocyclic Carbenes

Catalytic Annulations via α , β -Unsaturated Acyl Azoliums

Sommario/riassunto

Continuing the proven and successful concept of the well-received textbook "Asymmetric Synthesis - The Essentials", this is a brief and timely update on the latest developments in asymmetric synthesis and selected applications in natural product synthesis, chemical industry and materials science. As such, it covers a broad range of topics in all important areas, including metal catalysis, organocatalysis, physical organic chemistry, and analytical chemistry. Each contribution is similarly structured, while the short biographies of the experts are a useful tool for students selecting t