

1. Record Nr.	UNINA9910144134303321
Autore	Taber D. F (Douglass F.), <1948->
Titolo	Organic synthesis [[electronic resource] ] : state of the art 2005-2007 / / Douglass F. Taber
Pubbl/distr/stampa	Hoboken, NJ, : Wiley, c2008
ISBN	1-281-76689-5 9786611766894 0-470-38597-9 0-470-38596-0
Descrizione fisica	1 online resource (242 p.)
Collana	Organic Synthesis: State of the Art ; ; v.2
Classificazione	CHE 620f VK 5500
Disciplina	547.2
Soggetti	Organic compounds - Synthesis Organic compounds - Synthesis - Research Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Organic Synthesis: State of the Art 2005-2007; Contents; Preface; 1. Synthesis of (-)- Littoralisone; 2. Enantiocontrolled Construction of Oxygenated and Animated Stereogenic Centers; 3. Catalytic Enantioselective Construction of Alkylated Stereogenic Centers; 4. Catalytic Enantioselective Aldol/Mannich Reactions Leading to Extended Arrays of Stereogenic Centers; 5. Alternative Strategies for the Construction of Extended Arrays of Stereogenic Centers; 6. Synthesis of (-)- Avrainvillamide and (+)- Stephacidin B; 7. Best Synthetic Methods: Oxidation; 8. Best Synthetic Methods: Reduction 9. Selective Reactions of Alkenes 10. Synthesis of the Potent FBBP12 Ligand Antascomicin B; 11. Best Synthetic Methods: Carbon-Carbon Bond Formation; 12. Enantioselective Construction of Quaternary Centers; 13. Pd-Mediated Arylation of Aromatic and Hetero Aromatic Rings; 14. The Overman Route to Gelsemine; 15. Stereoselective Construction of Oxygen Heterocycles; 16. Enantioselective Construction of Naturally-Occurring Cyclic Ethers; 17. Stereoselective Construction of Nitrogen Heterocycles; 18. The Stork Synthesis of (-)- Reserpine

19. Stereocontrolled Construction of Azacyclic Natural Products  
20. Preparation of Benzene Derivatives; 21. Preparation of Heteroaromatics;  
22. Preparation and Reactions of Carboxylic Acids, Esters and Amides;  
23. The Boger Route to (-)-Vindoline; 24. Protection of C-O and C-N;  
25. New Catalysts and Strategies for Alkene Metathesis; 26. Creative Applications of Alkene and Alkyne Metathesis in Total Synthesis: (+)-8-epi-Xanthatin, (+)-Longicin, Latrunculin A, and Garsubellin A; 27. Synthesis of Erythronolide A; 28. Best Synthetic Methods: C-C Bond Formation  
29. Catalytic Enantioselective Homologation of Aldehydes to Alcohols and Amines  
30. Catalytic Enantioselective Construction of Alkylated Stereogenic Centers; 31. Enantioselective Construction of Arrays of Stereogenic Centers; 32. Adventures in Complex Indole Synthesis: (-)-Fischerindole I, (+)-Fischerindole G and (+)-Weltwitindolinone A; 33. New Dienes and Dienophiles for Intermolecular and Intramolecular Diels-Alder Cycloadditions; 34. Organocatalytic Preparation of Enantiomerically-Pure Carbocycles; 35. Carbocycle Construction by the Opening of Strained Rings: Synthesis of Tremulenolide A  
36. The Corey Route to the Dolabellanes: Isoedunol and -Araneosene  
37. Transition-Metal Catalyzed Enantioselective Ring Construction; 38. Best Synthetic Methods: Functional Group Transformation; 39. Selective Reactions of Alkenes; 40. Synthesis and Absolute Stereochemical Assignment of (-)-Galbulimima Alkaloid 13; 41. Preparation of Benzene Derivatives; 42. Preparation of Heteroaromatic Derivatives; 43. Functional Group Transformation; 44. Functional Group Protection; 45. The Leighton Synthesis of Dolabelide D; 46. Stereocontrolled Construction of N-Heterocycles  
47. Stereocontrolled Construction of O-Heterocycles

---

#### Sommario/riassunto

The second volume in a series, Organic Synthesis: State of the Art 2005-2007 will provide you with a convenient, compact summary of the state of the art of organic synthesis. This reference guide will quickly lead you to the most important recent developments like how scientists can now prepare ketones by directly combining aldehydes with terminal alkenes. Inside, you will find detailed analysis of more than twenty total syntheses, including the Davies Synthesis of (-)-Colombiasin A and (-)-Elisapterosin B, the Overman Synthesis of (-)-Sarain A, and the Sorensen Synthesis of (-)-Guanaca

---