

# CAPÍTULO 7

## REFERENCIAS

1. Lin, G.-Q.; Li, Y.-M.; Chan, A. S. C., *Principles and Applications of Asymmetric Synthesis* John Wiley & Sons, Inc.: New York, 2001.
2. Carey, F., *Química Orgánica*. 6 ed.; McGraw-Hill 2006.
3. Connon, S. J., Organocatalysis mediated by (thio)urea derivatives. *Chem. - Eur. J.* **2006**, 12, 5419-5427.
4. Dalko, P. I.; Moisan, L., In the Golden Age of Organocatalysis. *Angew. Chem., Int. Ed.* **2004**, 43, 5138-5175.
5. Berkessel, A.; Gröger, H., *Asymmetric Organocatalysis*. Wiley-VCH: 2005.
6. *Asymmetric Organocatalysis*. Springer: Berlin, 2010.
7. Mather, B. D.; Viswanathan, K.; Miller, K. M.; Long, T. E., Michael addition reactions in macromolecular design for emerging technologies. *Prog. Polym. Sci.* **2006**, 31, 487-531.
8. Yalalov, D. A.; Tsogoeva, S. B.; Schmatz, S., Chiral thiourea-based bifunctional organocatalysts in the asymmetric nitro-Michael addition: a joint experimental-theoretical study. *Adv. Synth. Catal.* **2006**, 348, 826-832.
9. List, B.; Lerner, R. A.; Barbas, C. F., III, Proline-Catalyzed Direct Asymmetric Aldol Reactions. *J. Am. Chem. Soc.* **2000**, 122, 2395-2396.
10. List, B., Asymmetric aminocatalysis. *Synlett* **2001**, 1675-1686.
11. Seayad, J.; List, B., Asymmetric organocatalysis. *Org. Biomol. Chem.* **2005**, 3, 719-724.

12. Taylor, M. S.; Jacobsen, E. N., Asymmetric catalysis by chiral hydrogen-bond donors. *Angew. Chem., Int. Ed.* **2006**, *45*, 1520-1543.
13. Takemoto, Y., Recognition and activation by ureas and thioureas: stereoselective reactions using ureas and thioureas as hydrogen-bonding donors. *Org. Biomol. Chem.* **2005**, *3*, 4299-4306.
14. Hamza, A.; Schubert, G.; Soós, T.; Pápai, I., Theoretical Studies on the Bifunctionality of Chiral thiourea-Based Organocatalysts: Competing Routes to C-C Bond Formation. *Journal of American Chemical Society* **2006**, *128*, 1351-1360.
15. Takemoto, Y., Development of chiral thiourea catalysts and its application to asymmetric catalytic reactions. *Chem. Pharm. Bull.* **2010**, *58*, 593-601.
16. Doyle, A. G.; Jacobsen, E. N., Small-Molecule H-Bond Donors in Asymmetric Catalysis. *Chem. Rev. (Washington, DC, U. S.)* **2007**, *107*, 5713-5743.
17. List, B.; Pojarliev, P.; Martin, H. J., Efficient proline-catalyzed Michael additions of unmodified ketones to nitro olefins. *Org. Lett.* **2001**, *3*, 2423-2425.
18. Zhang, X.-j.; Liu, S.-p.; Lao, J.-h.; Du, G.-j.; Yan, M.; Chan, A. S. C. Asymmetric conjugate addition of carbonyl compounds to nitroalkenes catalyzed by chiral bifunctional thioureas 2009. [www.elsevier.com/locate/tetasy](http://www.elsevier.com/locate/tetasy).
19. Lao, J.-h.; Zhang, X.-j.; Wang, J.-j.; Li, X.-m.; Yan, M.; Luo, H.-b., The effect of hydrogen bond donors in asymmetric organocatalytic conjugate additions. *Tetrahedron: Asymmetry* **2009**, *20* (24), 2818-2822.
20. Wei, S.; Yalalov, D. A.; Tsogoeva, S. B.; Schmatz, S., New highly enantioselective thiourea-based bifunctional organocatalysts for nitro-Michael addition reactions. *Catal. Today* **2007**, *121*, 151-157.

21. Wang, Q.-w.; Peng, L.; Fu, J.-y.; Huang, Q.-c.; Wang, L.-x.; Xu, X.-y., Effective asymmetric Michael addition of acetone to nitroalkenes promoted by chiral proline amide-thiourea bifunctional catalyst. *ARKIVOC* **2010**, *ii*, 340-351.
22. Cao, Y.-J.; Lu, H.-H.; Lai, Y.-Y.; Lu, L.-Q.; Xiao, W.-J., An effective bifunctional thiourea catalyst for highly enantio- and diastereoselective Michael addition of cyclohexanone to nitroolefins. *Synthesis* **2006**, 3795-3800.
23. Cao, C.-L.; Ye, M.-C.; Sun, X.-L.; Tang, Y., Pyrrolidine-Thiourea as a Bifunctional Organocatalyst: Highly Enantioselective Michael Addition of Cyclohexanone to Nitroolefins. *Organic Letters* **2006**, *8* (14), 2901-2904.
24. Inokuma, T.; Hoashi, Y.; Takemoto, Y., Thiourea-Catalyzed Asymmetric Michael Addition of Activated Methylene Compounds to  $\alpha,\beta$ -Unsaturated Imides: Dual Activation of Imide by Intra- and Intermolecular Hydrogen Bonding. *Journal of American Chemical Society* **2006**, *128*, 9413-9419.
25. Fotaras, S.; Kokotos, C. G.; Tsandi, E.; Kokotos, G., Prolinamides Bearing Thiourea Groups as Catalysts for Asymmetric Aldol Reactions. *Eur. J. Org. Chem.* **2011**, 1310-1317, S1310/1-S1310/25.
25. Fox, M.; Gerlach, A.; Lennon, I.; Graham, M.; Praquin, C., A Convenient and Scaleable synthesis of 11,12-Diamino-9,10-dihydro-9,10-ethanoanthracene and Its Enantiomers. *Synthesis* **2005**, *19*, 3196-3198.
27. Hori, Y.; Maruyama, R.; Motokawa, H.; Taniguchi, H., Formation of isothiocyanate from the reaction of primary amine, carbon disulfide, and alkyl halide with DBU. *Chem. Express* **1988**, *3*, 411-14.

28. Munch, H.; Hansen, J. S.; Pittelkow, M.; Christensen, J. B.; Boas, U., A new efficient synthesis of isothiocyanates from amines using di-tert-butyl dicarbonate. *Tetrahedron Lett.* **2008**, *49*, 3117-3119.