

## **Representative books by Alex Tao**

### **I. Books (Chief Editor):**

1. Biocatalysis for the Pharmaceutical Industry”, Wiley-VCH, **2009**
2. Biocatalysis for Green Chemistry and Chemical Process Development, Wiley-VCH, **2011**
3. 面向制药工业的生物催化——发现、开发与制造, 化学工业出版社, **2010**.

### **II. Books (Co-author for book chapters):**

1. “ Biocatalysis: An Industrial Perspective“, Royal Society of Chemistry, **2017**.
2. “Applied Biocatalysis: From Fundamental Science to Industrial Applications”, Wiley, **2016**.
3. “Biological Synthesis of Chemicals-Green Chemistry”, Handbook of Green Chemistry, Wiley, **2012**.
4. “Enzymes for Synthesis of Pharmaceuticals”, Green Techniques for Organic Synthesis and Medicinal Chemistry, Wiley-VCH, **2012**.
5. “Emerging enzymes and their synthetic applications”, Biocatalysis for Green Chemistry and Chemical Process Development (Wiley-VCH, **2011**), 45-65.
6. “Some Recent Examples in Developing Biocatalytic Pharmaceutical Processes”, Asymmetric Catalysis on Industrial Scale, 2nd Edition, Wiley,, **2010**.
7. “ Multimodular synthases and supporting enzymes for chemical production”, Biocatalysis for the Pharmaceutical Industry (VCH, **2009**), 273-303.
8. “Enzymes and their synthetic applications: an overview”, Biocatalysis for the Pharmaceutical Industry (VCH, **2009**), 1-19.
9. “Multimodular Synthases as Tools of the Synthetic Chemist”, chapter in “Multi Step Enzyme Catalysis”, Wiley-VCH, **2008**.
10. “An Integrated Approach to Developing Chemoenzymatic Processes at the Industrial Scale”, chapter in “New Avenues to Efficient Chemical Synthesis”,

Springer- Verlag, **2006**.

**11.** “Biocatalytic Retrosynthesis”, chapter in “Industrial Biotransformations”, Wiley-VCH, **2006**.

**12.** “Development of an Efficient Synthesis of Chiral 2-Hydroxy Acids”, “Asymmetric Synthesis on Industrial Scale: Challenges, Approaches and solutions”, Wiley-VCH, **2004**.

**13.** “Application of Biocatalysis in the Pharmaceutical Industry”, "Front. Biotechnol. Pharm.", Science Press, **2001**.

**14.** “Recent Advances in Organic Chemistry Related to Process Research and Development”, chapter in "Front. Biotechnol. Pharm.", Science Press, **2001**.

**15.** “Asymmetric Fluorination of Amino Ketones: Synthesis of Monofluoroketomethylene Peptide Isosteres and Related Compounds “, “Asymmetric Fluoroorganic Chemistry: Synthesis, Applications, and Future Directions”, Oxford University Press, **2000**.

**16.**”Synthesis of Cbz-protected ketomethylene dipeptide isosteres”, Methods in Molecular Medicine, American Chemical Society (**1999**), 23, 103-124.