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## 李月明教授

2012-09-16 来源: 南开大学药学院 浏览: 3816次



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研究领域

不对称催化方法学研究, 不对称有机合成反应研究, 酶抑制剂的设计与合成(包括神经氨酸酶抑制剂、组蛋白去乙酰化酶抑制剂、乙酰胆碱酯酶抑制剂、 $\alpha$ -葡萄糖苷酶抑制剂、COX-II抑制剂等), 以DNA为靶点的小分子的化合物及其生物活性研究。

学历

1988.9.-1991.6. 天津南开大学化学系: 博士学位

1985.9.-1988.7. 天津南开大学化学系: 硕士学位

1981.9.-1985.7. 天津南开大学化学系: 大学本科

获奖情况

1. 国家自然科学基金(二等奖, 2005年。获奖证书号码: 2005-Z-103-2-04-R05)。
2. 著作《手性合成 - 不对称反应及其应用》获教育部全国普通高等学校优秀教材二等奖(2002年)。
3. 1995年4月至7月参与国际奥林匹克化学竞赛中国队参赛队员的培训工作, 并于同年作为中国代表团领队参加第27届国际奥林匹克化学竞赛, 所有中国队参赛队员都获金牌, 中国队并获得团体总分第一。本人受中国化学会表彰。
4. 1993年国家教委霍英东教育基金会青年教师奖。

工作经历

1. 2009年4月: 南开大学药学院教授, 博士生导师。
2. 2008年6月: 中山大学药学院教授, 博士生导师。
3. 2007年4月: 天津市第五批特聘教授。
4. 2006年: 取得中山大学药学院兼职博士生导师资格。
5. 2005年: 入选中国科学院“百人计划”。

- 1998.4.-2009: 香港理工大学应用生物及化学科技学系: Research Associate (1998-2000) Research Fellow (2004-2009)。
- 1996.12.-1998.4.: 德国哥廷根大学(University of Goettingen, Göttingen, Germany) 有机化学研究所: 客座研究员(visiting scientist)。
- 1995.10.-1996.12: 印度国家化学实验室(National Chemical Laboratory, Pune, India): “穿世界科学院/印度政府CSIR”博士后。CSIR, Council of Scientific & Industrial Research, 印度政府科学与工业研究委员会。该机构是世界上最大的公共基金支持的科学技术委员会之一。
- 1993.12-1995.10.: 天津南开大学化学系副教授。
- 1991.6-1993.12.: 天津南开大学化学系讲师。

#### 出版著作情况

- 林国强 陈耀全 陈新滋 李月明: 《手性合成 — 不对称反应及其应用》, 科学出版社北京, **2000**。ISBN: 7-03-008114-5, 本书2002年获教育部全国普通高校优秀教材二等奖
- Guo-Qiang Lin, **Yue-Ming Li**, Albert S. C. Chan: “Principles and Applications of Asymmetric Synthesis.” John Wiley & Sons, Inc.: New York, **2001**. ISBN: 0-471-40027-0。
- 李月明 范青华 陈新滋: 《不对称有机反应 — 催化剂的回收与再利用》, 化学工业出版社: 北京, **2003**。ISBN 7-5025-4497-6。
- 林国强 李月明 陈耀全 陈新滋: 《手性合成 — 不对称反应及其应用 (第二版)》, 科学出版社: 北京, **2005**。ISBN 7-03-014533-X, 本书为中国科学院研究生教学用书。
- 李月明 范青华 陈新滋: 《不对称有机反应》, 化学工业出版社: 北京, **2005**。ISBN 5025-6222-2。
- 林国强 陈耀全 李月明 陈新滋: 《手性合成 — 不对称反应及其应用 (第三版)》, 科学出版社: 北京, **2007**。ISBN 978-7-03-019210-3, 本书为中国科学院研究生教学丛书。

#### 参编著作章节

- Yue-Ming Li**, Wing-Yiu Yu, and Albert S. C. Chan “Atropisomeric Biheteroaromatic Diphosphines” in Armin Börner Ed. “Phosphorus ligands in asymmetric catalysis” (p260-283). Wiley-VCH, **2008**. ISBN 978-3-527-31476-2.
- Yue-Ming Li**, Ming Yan, and Albert S. C. Chan “Atropisomeric Partially Hydrogenated 1-Binaphthyl Diphosphines” in Armin Börner Ed. “Phosphorus ligands in asymmetric catalysis” (p2306). Wiley-VCH, **2008**. ISBN 978-3-527-31476-2.

#### 代表性论文(被引用780余次, 其中被他人引用670余次)

- Qing-Hua Fan, **Yue-Ming Li**\*, Albert S. C. Chan\* “Recoverable Catalysts for Asymmetric Organic Synthesis.” *Chemical Reviews* **2002**, 102(10), 3385-3465.
- Qiu, Liqin; Kwong, Fuk Yee; Wu, Jing; Lam, Wai Har; Chan, Shusun; Yu, Wing-Yiu; **Li, Yue-Ming**; Guo, Rongwei; Zhou, Zhongyuan; Chan, Albert S. C. “New Class of Versatile Chiral-Bridged Atropisomeric Diphosphine Ligands: Remarkably Efficient Ligand Syntheses and Their Applications in Highly Enantioselective Hydrogenation Reactions.” *Journal of the American Chemical Society* **2006** 128(17), 5955-5965.
- Jin-Lin Zhou, Yu-Jing Lu, Tian-Miao Ou, Jun-Min Zhou, Zhi-Shu Huang,\* Xiao-Feng Zhu, Cui-Juar Du, Xian-Zhang Bu, Lin Ma, Lian-Quan Gu, **Yue-Ming Li**\*,\* and Albert Sun-Chi Chan “Synthesis and Evaluation of Quindoline Derivatives as G-Quadruplex Inducing and Stabilizing Ligands and Potential Inhibitors of Telomerase.” *Journal of Medicinal Chemistry* **2005**, 48(23), 7315-7321.
- Zhi-Shu Huang,\* Hai-Qiang Wu, Zhi-Fang Duan, Bing-Fen Xie, Zong-Chao Liu, Gong-Kan Feng, Lian-Quan Gu\*, Albert S.C. Chan, **Yue-Ming Li**\* “Synthesis and cytotoxicity study of alkannin derivatives.” *European Journal of Medicinal Chemistry* **2004**, 39, 755-764.
- Qiong Shen, Quan Peng, Jialiang Shao, Xufeng Liu, Zhishu Huang, Xianzhang Pu, Lin Ma\*, **Yue-Ming Li**\*, Albert S.C. Chan, Lianquan Gu\* “Synthesis and biological evaluation of functionalized coumarin as acetylcholinesterase inhibitors.” *European Journal of Medicinal Chemistry* **2005**, 40(12), 1307

6. **Yue-Ming Li**, Fuk-Yee Kwong, Wing-Yiu Yu, Albert S.C. Chan "Recent advances in developing r axially chiral phosphine ligands for asymmetric catalysis." *Coordination Chemistry Reviews* **2007**, *2* (17-20), 2119-2144.
7. Jiwu Ruan, Gui Lu, Lijing Xu, **Yue-Ming Li**, Albert S. C. Chan "Catalytic Asymmetric Alkynylation and Arylation of Aldehydes by an H<sub>2</sub>-Binaphthyl-Based Amino Alcohol Ligand." *Advanced Synthesis & Catalysis* **2008**, *350*(1), 76-84.
8. Sheng-Ling Zhang, Zhi-Shu Huang, Yue-Ming Li, Albert S.C. Chan, Lian-Quan Gu "Synthesis of zwitterionic 4-hydroxy-2(1*H*)-quinolinone derivatives." *Tetrahedron* **2008**, *64*(19), 4403-4407.
9. Sau Hing Chan, Kim Hung Lam, **Yue-Ming Li**, Lijin Xu, Weijun Tang, Fuk Loi Lam, Wai Hung Lo Wing Yiu Yu, Qinghua Fan and Albert S.C. Chan "Asymmetric hydrogenation of quinolines with recyclable and air-stable iridium catalyst systems." *Tetrahedron: Asymmetry* **2007**, *18*(22), 2625-2631.
10. Liqin Qiu, **Yue-Ming Li**, Fuk Yee Kwong, Wing-Yiu Yu, Qing-Hua Fan, Albert S. C. Chan\* "High Efficient Asymmetric Hydrogenation of  $\alpha,\beta$ -Unsaturated Carboxylic Acids Catalyzed by Ruthenium(Dipyridylphosphine Complexes." *Advanced Synthesis & Catalysis* **2007**, *349*(4-5), 517-520.
11. Gui Lu, Xingshu Li, **Yue-Ming Li**, Fuk Yee Kwong, Albert S. C. Chan "Highly Enantioselective Catalytic Alkynylation of Ketones - A Convenient Approach to Optically Active Propargylic Alcohol" *Advanced Synthesis & Catalysis* **2006**, *348*(14), 1926-1933.
12. Li-Xia Pei, **Yue-Ming Li**, Xian-Zhang Bu, Lian-Quan Gu and Albert S.C. Chan "One-pot synthesis 5,6-dihydroxylated benzo[b]furan derivatives." *Tetrahedron Letters* **2006**, *47*(15), 2615-2618.
13. Gui Lu, Fuk Yee Kwong, Ji-Wu Ruan, **Yue-Ming Li**, Albert S. C. Chan "Highly Enantioselective Addition of In Situ Prepared Arylzinc to Aldehydes Catalyzed by a Series of Atropisomeric Binaphth Derived Amino Alcohols." *Chemistry: A European Journal* **2006**, *12*(15), 4115-4120.
14. Fuk Yee Kwong, **Yue Ming Li**, Wai Har Lam, Liqin Qiu, Hang Wai Lee, Chi Hung Yeung, Kin Shi Chan, and Albert S. C. Chan "Rhodium-Catalyzed Asymmetric Aqueous Pauson-Khand-Type Reaction." *Chemistry: A European Journal* **2005**, *11*(13), 3872-3880.
15. Fuk Yee Kwong, Hang Wai Lee, Liqin Qiu, Wai Har Lam, **Yue-Ming Li**, Hoi Lun Kwong, Albert S. C. Chan "Rhodium-BisbenzodioxanPhos Complex-Catalyzed Homogeneous Enantioselective Pauson-Khand-Type Cyclization in Alcoholic Solvents." *Advanced Synthesis & Catalysis* **2005**, *347*, 1750-1754.
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17. Lai-Lai Wang, Rong-Wei Guo, **Yue-Ming Li**, Albert S. C. Chan "Rhodium-catalyzed asymmetric hydroformylation of vinylarenes with novel chiral P,N-ligands derived from 1,2:5,6-di-O-cyclohexylidene-D-mannitol." *Tetrahedron: Asymmetry* **2005**, *16*, 3198-3204.
18. Jian-Ying Qi, **Yue-Ming Li**, Zhong-Yuan Zhou, Chi-Ming Che, Chi-Hung Yeung\*, and Albert S. C. Chan\* "Novel Manganese Complex as an Efficient Catalyst for the Isobutyraldehyde Mediated Epoxidation of Cyclic Alkenes with Dioxygen." *Advanced Synthesis and Catalysis* **2005**, *347*(1), 44-49.
19. Wang, R. H.; Xu, L. J.; Ji, J. X.; Shi, Q.; **Li, Y. M.**; Zhou, Z. Y.; Hong, M. C.; Chan, A. S. C. "Me directed stereoselective syntheses of homochiral complexes of exo-bidentate binaphthol derivatives." *European Journal of Inorganic Chemistry* **2005**, (4), 751-758.
20. Sheng-Ling Zhang, Zhi-Shu Huang, Lin-Kun An, Xian-Zhang Bu, Lin Ma, **Yue-Ming Li**, Albert S. C. Chan, and Lian-Quan Gu "Synthesis of Zwitterionic 4-Hydroxycoumarin Derivatives through a Unique Reaction of 4-Hydroxycoumarins with p-Benzoquinone and Pyridine." *Organic Letters* **2004**, *6*(26), 4853-4855.

21. Yi, B.; Fan, Q. H.; Deng, G. J.; **Li, Y. M.**; Qiu, L. Q.; Chan, A. S. C. "Novel chiral dendritic diphosphine ligands for Rh(I)-catalyzed asymmetric hydrogenation: Remarkable structural effects on catalytic properties." *Organic Letters* **2004**, 6(9), 1361-1364.
22. Jia, X.; Li, X.; Xu, L. J.; **Li, Y. M.**; Shi, Q.; Au-Yeung, T. T. L.; Yip, C. W.; Yao, X. S.; Chan, A. C. "Titanium-catalyzed tandem sulfoxidation-kinetic resolution process: A convenient method for high enantioselectivities and yields of chiral sulfoxide." *Advanced Synthesis & Catalysis* **2004**, 346 (7), 723-726.
23. Lailai Wang, **Yue-Ming Li**, Chiu-wing Yip, Liqin Qiu, Zhongyuan Zhou, and Albert S. C. Chan\* "Synthesis of New Chiral Aryl Diphosphite Ligands Derived from Pyranoside Backbone of Monosaccharides and Their Application in Copper-Catalyzed Asymmetric Conjugate Addition of Diethylzinc to Cyclic Enones." *Advanced Synthesis and Catalysis* **2004**, 346, 947-953.
24. Chen, X. H.; Guo, R. W.; **Li, Y. M.**; Chen, G.; Yeung, C. H.; Chan, A. S. C. "Application of phosphinous amide ligands in palladium complex-catalyzed asymmetric allylic alkylation: influence of steric effects on enantioselectivity." *Tetrahedron: Asymmetry* **2004**, 15(2), 213-217.