丛 欢

个人情况

1984 年生于北京
地址: 北京市海淀区中关村东路 29 号
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工作经历

2015– 中国科学院理化技术研究所 研究员、博士生导师

教育背景

2011–2015 美国麻省理工学院/加州理工学院 博士后
导师: Gregory C. Fu 教授

2006–2011 美国波士顿大学 博士
导师: John A. Porco, Jr. 教授

2002–2006 北京大学 学士
导师: 席振峰 教授

发表论文

8. ***Cong, H.***; Fu, G. C. Catalytic enantioselective cyclization/cross-coupling with alkyl electrophiles. *J. Am. Chem. Soc*. **2014**, *136*, 3788–3791.

7. Qi, C.†; ***Cong, H.†***; Cahill, K. J.; Müller, P.; Johnson, R. P.; Porco, J. A., Jr. Biomimetic dehydrogenative Diels-Alder cycloadditions: total syntheses of brosimones A and B. *Angew. Chem. Int. Ed.* **2013**, *52*, 8345–8348.
   † 共同第一作者

6. ***Cong, H.***; Porco, J. A., Jr. Total synthesis of (±)-sorocenol B enabled by nanoparticle catalysis. *Org. Lett.* **2012**, *14*, 2516–2519.
   ❖ 本文是 2012 年 6 月 *Organic Letters* 被阅读次数最多的文章之一

5. ***Cong, H.***; Porco, J. A., Jr. Chemical synthesis of complex molecules using nanoparticle catalysis. *ACS Catal.* **2012**, *2*, 65–70.

4. Majumdar, I. D.; Devanabanda, A. R.; Fox, B.; Schwartzman, J.; ***Cong, H.***; Porco, J. A., Jr.; Weber, H. C. Synthetic cyclohexenyl chalcone natural products possess cytotoxic activities against prostate cancer cells and inhibit cysteine cathepsins in vitro *Biochem. Biophys. Res. Commun.* **2011**, *416*, 397–402.

3. ***Cong, H.***; Becker, C. F.; Elliott, S. J.; Grinstaff, M. W.; Porco, J. A., Jr. Silver nanoparticle-catalyzed Diels-Alder cycloadditions of 2′-hydroxychalcones.
   J. Am. Chem. Soc. **2010**, *132*, 7514–7518.
   - ❖ 本文被以下专业媒体多次重点报道:
     "Silver surprise" *Science* **2010**, *328*, 1208.
     "Silver spurs cycloadditions" *Chemical & Engineering News* **2010**, *88*(20), 29.
     "2011 Green Chemistry Awards" *Chemical & Engineering News* **2011**, *89*(26), DOI: 10.1021/CEN061311142315
2. ***Cong, H.***; Ledbetter, D.; Rowe, G. T.; Caradonna, J. P.; Porco, J. A., Jr. "Electron transfer-initiated Diels-Alder cycloadditions of 2'-hydroxychalcones" *J. Am. Chem. Soc*. **2008**, *130*, 9214–9215.
   - ❖ 本文被 *Synfacts* 重点报道: *Synfacts* **2009**, 13.

1. ***丛欢*** "介绍改进的恒沸点仪" *大学化学* **2007**, *22*, 45–48.

奖励荣誉

中组部第十一批"千人计划"青年人才(2015)
美国总统绿色化学挑战系列奖 Kenneth Hancock Memorial Award (2011)
波士顿大学 Feldman Award (2010)
Sigma Xi 荣誉学会会员 (2010)
波士顿大学 Feldman Fund Graduate Travel Award (2010)
AstraZeneca 奖学金 (2008–2009)
波士顿大学研究生院 Dean's Award (2008–2009)
北京市优秀毕业生 (2006)
北京大学优秀毕业生 (2006)
北京大学罗定邦奖学金 (2005)
北京大学优秀团干部 (2005)
北京大学三好学生标兵 (2005)
北京大学翔鹭奖学金(2004)
北京大学五四奖学金(2003)
北京大学新生入学奖学金(2002)
北京市银帆奖 (2002)
中国化学会高中化学竞赛冬令营一等奖 (2002)

学术会议邀请报告

3. Material Measurement Laboratory, National Institute of Standards and Technology, Gaithersburg, MD, Jun. 24, 2011.
2. The Inaugural Graduate Research Symposium, American Chemical Society Division of Organic Chemistry, Chestnut Hill, MA, Jul. 15–18, 2010.
1. The Second AstraZeneca Distinguished Graduate Chemistry Symposium, AstraZeneca R&D, Waltham, MA, Oct. 9, 2009.

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EMPLOYMENT

2015– Principal Investigator/Professor
Technical Institute of Physics and Chemistry, Chinese Academy of Sciences

EDUCATION & TRAINING

2011–2015 Postdoctoral scholar
California Institute of Technology / Massachusetts Institute of Technology
Advisor: Professor Gregory C. Fu

2006–2011 Ph.D., Boston University
Dissertation: Development and applications of Diels-Alder cycloadditions of 2′-hydroxychalcones
Advisor: Professor John A. Porco, Jr.

2002–2006 B.S., Peking University (graduated with highest honors)
Advisor: Professor Zhenfeng Xi

RESEARCH INTERESTS

My general research interests include developing enabling catalysts/methodologies to solve challenging problems in controlled chemical synthesis of complex natural and unnatural molecular architectures which provide a fundamental feedstock for medical, pharmaceutical, and material research.

PUBLICATIONS

8. ***Cong, H.***; Fu, G. C. Catalytic enantioselective cyclization/cross-coupling with alkyl electrophiles. *J. Am. Chem. Soc*. **2014**, *136*, 3788–3791.

7. Qi, C.†; ***Cong, H.***†; Cahill, K. J.; Müller, P.; Johnson, R. P.; Porco, J. A., Jr. Biomimetic dehydrogenative Diels-Alder cycloadditions: total syntheses of brosimones A and B. *Angew. Chem. Int. Ed.* **2013**, *52*, 8345–8348.
   † Equally contributing first authors

6. ***Cong, H.***; Porco, J. A., Jr. Total synthesis of (±)-sorocenol B enabled by nanoparticle catalysis. *Org. Lett.* **2012**, *14*, 2516–2519.
   ❖ Featured in "*Organic Letters* Most read articles" in June, 2012

5. ***Cong, H.***; Porco, J. A., Jr. Chemical synthesis of complex molecules using nanoparticle catalysis. *ACS Catal.* **2012**, *2*, 65–70.

4. Majumdar, I. D.; Devanabanda, A. R.; Fox, B.; Schwartzman, J.; ***Cong, H.***; Porco, J. A., Jr.; Weber, H. C. Synthetic cyclohexenyl chalcone natural products possess cytotoxic activities against prostate cancer cells and inhibit cysteine cathepsins in vitro.
   Biochem. Biophys. Res. Commun. **2011**, *416*, 397−402.

3. ***Cong, H.***; Becker, C. F.; Elliott, S. J.; Grinstaff, M. W.; Porco, J. A., Jr. Silver nanoparticle-catalyzed Diels-Alder cycloadditions of 2′-hydroxychalcones.
   J. Am. Chem. Soc. **2010**, *132*, 7514−7518.
   - ❖ Featured in *Chemical & Engineering News*: Silver spurs cycloadditions. **2010**, *88*(20), 29.
   - ❖ Featured in *Science*: Silver surprise. **2010**, *328*, 1208.
   - ❖ Featured in *Chemical & Engineering News*: 2011 Green Chemistry Awards. DOI:10.1021/CEN061311142315

2. ***Cong, H.***; Ledbetter, D.; Rowe, G. T.; Caradonna, J. P.; Porco, J. A., Jr. Electron transfer-initiated Diels-Alder cycloadditions of 2'-hydroxychalcones.
   J. Am. Chem. Soc. **2008**, *130*, 9214−9215.
   - ❖ Featured in *Synfacts* **2009**, 13.

1. ***Cong, H.*** Introduction of an improved ebulliometer.
   Daxue Huaxue (*University Chemistry*) **2007**, *22*, 45−48.

HONORS & AWARDS

Recruitment Program of Global Experts - 1000 Talent Plan Youth Program (2015)
Kenneth G. Hancock Memorial Award, American Chemical Society (2011)
Feldman Award, Boston University (2010)
Elected to *Sigma Xi* (2010)
Feldman Fund Graduate Travel Award, Boston University (2010)
AstraZeneca Graduate Research Fellowship (2008−2009)
Graduate School Dean's Award, Boston University (2008−2009)
Outstanding Graduate Award, Beijing Municipal Commission of Education (2006)
Law Ting-Pong Fellowship, Peking University (2005)
Xiang Lu Fellowship, Peking University (2004)
May 4th Fellowship, Peking University (2003)
Freshman Fellowship, Peking University (2002)
Silver Sail Award, Beijing Municipal Commission of Education (2002)
Gold Medal, National Chemistry Olympiad, Chinese Chemical Society (2002)

INVITED PRESENTATIONS

3. Material Measurement Laboratory, National Institute of Standards and Technology, Gaithersburg, MD, Jun. 24, 2011.

2. The Inaugural Graduate Research Symposium, American Chemical Society Division of Organic Chemistry, Chestnut Hill, MA, Jul. 15−18, 2010.

1. The Second AstraZeneca Distinguished Graduate Chemistry Symposium, AstraZeneca R&D, Waltham, MA, Oct. 9, 2009.