

Summary of Publications (Jan/2010 - Dec/2011)

**1. Organocatalysis in Cross-Coupling: DMEDA-Catalyzed Direct C–H Arylation of Unactivated Benzene**

By Wei Liu, Hao Cao, Hua Zhang, Heng Zhang, Kin Ho Chung, Chuan He, Haibo Wang, Fuk Yee Kwong, Aiwen Lei

From J. Am. Chem. Soc., **2010**, 132(47), 16737–16740.

Impact factor: 9.023

**2. A General Palladium Catalyst System for Suzuki-Miyaura Coupling of Potassium Aryltrifluoroborates and Aryl Mesylates**

By Chow, Wing Kin; So, Chau Ming; Lau, Chak Po; Kwong, Fuk Yee

From Journal of Organic Chemistry, **2010**, 75(15), 5109-5112.

Impact factor : 4.002

**3. Palladium-Catalyzed Sonogashira Coupling of Aryl Mesylates and Tosylates**

By Choy, Pui Ying; Chow, Wing Kin; So, Chau Ming; Lau, Chak Po; Kwong, Fuk Yee

From Chemistry--A European Journal, **2010**, 16(33), 9982-9985.

Impact factor: 5.476

**4. Remarkably Effective Phosphanes Simply with a PPh<sub>2</sub> Moiety: Application to Pd-Catalysed Cross-Coupling Reactions for Tetra-ortho-substituted Biaryl Syntheses**

By So, Chau Ming; Chow, Wing Kin; Choy, Pui Ying; Lau, Chak Po; Kwong, Fuk Yee

From Chemistry--A European Journal, **2010**, 16(27), 7996-8001.

Impact factor : 5.476

**5. A Mild and Efficient Palladium-Catalyzed Cyanation of Aryl Mesylates in Water or tBuOH/Water**

By Yeung, Pui Yee; So, Chau Ming; Lau, Chak Po; Kwong, Fuk Yee

From Angewandte Chemie, International Edition, **2010**, 49(47), 8918-8922.

Impact factor : 12.730

**6. Highly enantioselective and efficient organocatalytic aldol reaction of acetone and  $\beta,\gamma$ -unsaturated  $\alpha$ -keto ester**

By Li, Pengfei; Zhao, Junling; Li, Fengbo; Chan, Albert S. C.; Kwong, Fuk Yee

From Organic Letters, **2010**, 12(24), 5616-5619.

Impact factor: 5.250

**7. Palladium-Catalyzed Oxidative Cross-Coupling Reaction of Arylboronic Acids with Diazoesters for Stereoselective Synthesis of (E)- $\alpha,\beta$ -Diarylacrylates**

By Tsoi, Yuk-Tai; Zhou, Zhongyuan; Chan, Albert S. C.; Yu, Wing-Yiu

From Organic Letters, **2010**, 12(20), 4506-4509.

Impact factor): 5.250

**8. Pd-Catalyzed Intermolecular ortho-C-H Amidation of Anilides by N-Nosyloxycarbamate**

By Ng, Ka-Ho; Chan, Albert S. C.; Yu, Wing-Yiu

From Journal of the American Chemical Society, **2010**, 132(37), 12862-12864.

Impact factor: 9.023

**9. Pd-Catalyzed Ortho-C-H Acylation/Cross Coupling of Aryl Ketone O-Methyl Oximes with Aldehydes Using tert-Butyl Hydroperoxide as Oxidant**

By Chan, Chun-Wo; Zhou, Zhongyuan; Chan, Albert S. C.; Yu, Wing-Yiu

From Organic Letters, **2010**, 12(17), 3926-3929.

Impact factor: 5.250

**10. Design and syntheses of permethyl ningalin B analogues: Potent multidrug resistance (MDR) reversal agents of cancer cells**

By Pu Yong Zhang, Iris L. K. Wong, Clare S. W. Yan, Xiao Yu Zhang, Tao Jiang, Larry M. C. Chow, Sheng Biao Wan

From Journal of Medicinal Chemistry, **2010**, 53(14), 5108-5120.

Impact factor: 5.207

**11. A Unique Approach to the Concise Synthesis of Highly Optically Active Spirooxazolines and the Discovery of a More Potent Oxindole-Type Phytoalexin Analogue**

By Xianxing Jiang, Yiming Cao, Yiqing Wang, Luping Liu, Fangfang Shen, Rui Wang

From J. Am. Chem. Soc., **2010**, 132(43), 15328-15333.

Impact factor: 9.023

**12. A Mild and Efficient Palladium-Catalyzed Cyanation of Aryl Chlorides with K<sub>4</sub>[Fe(CN)<sub>6</sub>]**

By Yeung, Pui Yee; So, Chau Ming; Lau, Chak Po; Kwong, Fuk Yee

From Organic Letters, **2011**, 13(4), 648-651.

Impact factor: 5.250

**13. A versatile palladium catalyst system for Suzuki-Miyaura coupling of alkenyl tosylates and mesylates**

By Wong, Pui Yu; Chow, Wing Kin; Chung, Kin Ho; So, Chau Ming; Lau, Chak Po; Kwong, Fuk Yee

From Chemical Communications, **2011**, 47(29), 8328-8330.

Impact factor: 5.787

**14. Electrospray Ionization Using Wooden Tips**

By Hu, Bin; So, Pui-Kin; Chen, Huanwen; Yao, Zhong-Ping

From Analytical Chemistry, **2011**, 83(21), 8201-8207.

Impact factor: 5.874

**15. Highly efficient carbazolyl-derived phosphine ligands: Application to sterically hindered biaryl couplings**

By To, Sheung-Chun; Kwong, Fuk-Yee

From Chemical Communications, **2011**, 47(17), 5079-5081.

Impact factor: 5.787

**16. Increased Structural Flexibility at the Active Site of a Fluorophore-conjugated  $\beta$ -Lactamase Distinctively Impacts Its Binding toward Diverse Cephalosporin Antibiotics**

By Wong, Wai-Ting; Chan, Kwok-Chu; So, Pui-Kin; Yap, Hong-Kin; Chung, Wai-Hong; Leung, Yun-Chung; Wong, Kwok-Yin; Zhao, Yanxiang

From Journal of Biological Chemistry, **2011**, 286(36), 31771-31780.

Impact factor: 5.328

**17. Oil-Assisted Sample Preparation: A Simple Method for Analysis of Solid Samples Using Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry**

By So, Pui-Kin; Yao, Zhong-Ping

From Analytical Chemistry, **2011**, 83(13), 5175-5181.

Impact factor: 5.874

**18. Organocatalytic Asymmetric Aldol Reaction of Ketones with  $\beta,\gamma$ -Unsaturated  $\alpha$ -Keto Esters: An Efficient****Access to Chiral Tertiary Alcohol Skeletons**

By Li, Pengfei; Chan, Sau Hing; Chan, Albert S. C.; Kwong, Fuk Yee

From Advanced Synthesis & Catalysis, **2011**, 353(7), 1179-1184.

Impact factor: 5.250

**19. Palladium-Catalyzed Borylation of Aryl Mesylates and Tosylates and Their Applications in One-Pot Sequential Suzuki-Miyaura Biaryl Synthesis**

By Chow, Wing-Kin; So, Chau-Ming; Lau, Chak-Po; Kwong, Fuk-Yee

From Chemistry--A European Journal, **2011**, 17(25), 6913-6917.

Impact factor: 5.476

**20. Palladium-catalyzed cross-coupling reactions of aryl mesylates**

By So, Chau Ming; Kwong, Fuk Yee

From Chemical Society Reviews, **2011**, 40(10), 4963-4972.

Impact factor: 26.585

**21. Palladium-Catalyzed Decarboxylative Arylation of Potassium Cyanoacetate: Synthesis of  $\alpha$ -Diaryl Nitriles from Aryl Halides**

By Yeung, Pui Yee; Chung, Kin Ho; Kwong, Fuk Yee

From Organic Letters, **2011**, 13(11), 2912-2915.

Impact factor: 5.250

**22. Palladium-Catalyzed Direct and Regioselective C-H Bond Functionalization/Oxidative Acetoxylation of Indoles**

By Choy, Pui Ying; Lau, Chak Po; Kwong, Fuk Yee

From Journal of Organic Chemistry, **2011**, 76(1), 80-84.

Impact factor: 4.002

**23. Palladium-catalyzed direct arylation of heteroarenes with aryl mesylates**

By So, Chau Ming; Lau, Chak Po; Kwong, Fuk Yee

From Chemistry--A European Journal, **2011**, 17(3), 761-765, S761/1-S761/86.

Impact factor: 5.476

**24. Rhodium-Catalyzed Cross-Coupling Reaction of Arylboronates and Diazoesters and Tandem Alkylation Reaction for the Synthesis of Quaternary  $\alpha,\alpha$ -Heterodiaryl Carboxylic Esters**

By Tsoi, Yuk-Tai; Zhou, Zhongyuan; Yu, Wing-Yiu

From Organic Letters, **2011**, 13(19), 5370-5373.

Impact factor: 5.250

**25. Palladium(II)-Catalyzed Direct ortho-C-H Acylation of Anilides by Oxidative Cross-Coupling with Aldehydes using tert-Butyl Hydroperoxide as Oxidant**

By Chan, Chun-Wo; Zhou, Zhongyuan; Yu, Wing-Yiu

From Advanced Synthesis & Catalysis, **2011**, 353(16), 2999-3006.

Impact factor: 5.250

**26. Novel Fluorescent Molecular Clips: Selective Recognition Towards Fe<sup>3+</sup> in Aqueous Solution.**

By Li, Lin; She, Neng-fang; Fei, Zhuan; So, Pui-kin; Wang, Yu-zhou; Cao, Li-ping; Wu, An-xin; Yao, Zhongping

From Journal of Fluorescence, **2011**, 21(3), 1103-1110.

Impact factor: 1.966

**27. Characterization of proteins by ambient mass spectrometry.**

By Yao, Zhong-Ping

From Mass Spectrometry Reviews, **2011**, In press, DOI: 10.1002/mas.20346.

Impact factor: 9.091

**28. Synthesis of  $\beta$ -Amino Acid Derivatives via Copper-Catalyzed Asymmetric 1,4-Reduction of  $\beta$ -(Acylamino)acrylates.**

By Yan Wu, Shan-Bin Qi, Fei-Fei Wu, Xi-Chang Zhang, Min Li, Jing Wu, and Albert S. C. Chan

From Organic Letters, **2011**, 13(7), 1754-1757.

Impact factor: 5.250

**29. Highly Enantioselective Synthesis of Multisubstituted Polyfunctional Dihydropyrrole via an Organocatalytic Tandem Michael/Cyclization Sequence**

By Gen Zhang, Yaohu Zhang, Xianxing Jiang, Wenjin Yan, and Rui Wang

From Organic Letters, **2011**, 13(15), 3806-3809.

Impact factor: 5.250

**30. Enantioselective Michael/Cyclization Reaction Sequence: Scaffold-Inspired Synthesis of Spirooxindoles with Multiple Stereocenters**

By Yiming Cao, Xianxing Jiang, Luping Liu, Fangfang Shen, Futing Zhang, Rui Wang

From Angew. Chem. Int. Ed., **2011**, 50, 9124-9127.

Impact factor: 12.730

**31. Enantioselective Synthesis of Cyclic Thioureas via Mannich Reaction and Concise Synthesis of Highly Optically Active Methylthioimidazolines: Discovery of a More Potent Antipyretic Agent**

By Xianxing Jiang Yiqing Wang, Gen Zhang, Dan Fu, Futing Zhang, Ming Kai, Rui Wang

From *Advanced Synthesis & Catalysis*, **2011**, 353(10), 1787–1796.

Impact factor: 5.250

**32. Chiral Phosphorus Ligands with Interesting Properties and Practical Applications**

By Fuk Loi Lam, Fuk Yee Kwong, and Albert S.C. Chan

From *Topics in Organometallic Chemistry*, **2011**, 36, 29–66.

Impact factor: (Book series, no impact factor is given)

**33. Enantioselective Mannich reaction of a highly reactive Horner–Wadsworth–Emmons reagent with imines catalyzed by a bifunctional thiourea**

By Depeng Zhao, Dongxu Yang, Yijie Wang, Yuan Wang, Linqing Wang, Lijuan Mao and Rui Wang

From *Chemical Science*, **2011**, 2, 1918–1921.

Impact factor: Not yet available.

**34. Facile Creation of 2-Substituted Indolin-3-ones by Using Primary–Secondary Diamine Catalysts**

By Wangsheng Sun, Liang Hong, Rui Wang

From *Chemistry--A European Journal*, **2011**, 17(22), 6030–6033.

Impact factor: 5.476

**35. Copper-Dipyridylphosphine-Polymethylhydrosiloxane: A Practical and Effective System for the Asymmetric Catalytic Hydrosilylation of Ketones**

By Xi-Chang Zhang, Fei-Fei Wu, Shijun Li, Ji-Ning Zhou, Jing Wu, Ning Li, Wenjun Fang, Kim Hung Lam, Albert S. C. Chan

From *Advanced Synthesis & Catalysis*, **2011**, 353(9), 1457–1462.

Impact factor: 5.250

**36. Catalytic Asymmetric Activation of a Csp<sup>3</sup>-H Bond Adjacent to a Nitrogen Atom: A Versatile Approach to Optically Active  $\alpha$ -Alkyl  $\alpha$ -Amino Acids and C1-Alkylated Tetrahydroisoquinoline Derivatives**

By Gen Zhang, Yaohu Zhang, and Rui Wang

From *Angew. Chem. Int. Ed.*, **2011**, 50, 10429–10432

Impact factor: 12.730

**37. Responsive Two-Photon Induced Europium Emission as Fluorescent Indicator for Paralytic Shellfish Saxitoxin**

By Shuzhong He, Hongguang Li, Yuk-Wang Yip, Chi-Tung Yeung, Yuen On Fung, Hoi-Kuan Kong, Ho-Lun Yeung, Ga-Lai Law, Ka-Leung Wong, Chi-Sing Lee, Michael Hon-Wah Lam, Margaret B.

Murphy, Paul Kwan-Sing Lam, Wing-Tak Wong

From *Organic Letters*, **2011**, 13(19), 5036–5039.

Impact factor: 5.250

**38. Cobalt(II)-catalyzed asymmetric hydrosilylation of simple ketones using dipyridylphosphine ligands in air**

By Feng Yu, Xi-Chang Zhang, Fei-Fei Wu, Ji-Ning Zhou, Wenjun Fang, Jing Wu, and Albert S. C. Chan  
From Organic & Biomolecular Chemistry, **2011**, 9, 5652-5654.

Impact factor: 3.451

**39. Design of acid-activated cell penetrating peptide for delivery of active molecules into cancer cells**

By Wei Zhang, Jingjing Song, Bangzhi Zhang, Liwei Liu, Kairong Wang, and Rui Wang  
From Bioconjugate Chemistry, **2011**, 22(7), 1410-1415.

Impact factor: 5.002

**40. Efficient cyanation of aryl bromides with  $K_4[Fe(CN)_6]$  catalyzed by a palladium-indolylphosphine complex**

By Pui Yee Yeung, Chun Pui Tsang, Fuk Yee Kwong  
From Tetrahedron Letters, **2011**, 52(52), 7038-7041.

Impact factor: 2.618

**41. Bifunctional 3,3'-Ph<sub>2</sub>-BINOL-Mg Catalyzed Direct Asymmetric Vinylogous Michael Addition of  $\alpha, \beta$ -Unsaturated  $\gamma$ -Butyrolactam**

By Li Lin, Jinlong Zhang, Xiaojuan Ma, Xu Fu, and Rui Wang  
From: Organic Letters, **2011**, 13(24), 6410–6413

Impact factor: 5.250

**42. Copper(II)-Catalyzed Hydrosilylation of Ketones Using Chiral Dipyridylphosphane Ligands: Highly Enantioselective Synthesis of Valuable Alcohols**

By Feng Yu, Ji-Ning Zhou, Xi-Chang Zhang, Yao-Zong Sui, Fei-Fei Wu, Lin-Jie Xie, Albert S. C. Chan, and Jing Wu  
From: Chem. Eur. J., **2011**, 17, 14234–14240.

Impact factor: 5.476