

State Key Laboratory of Chirosciences

Publication list in year 2015

1. Yuen, O. Y.; Charoensak, M.; So, C. M.; Kuhakarn, C.; Kwong, F. Y., A General Direct Arylation of Polyfluoroarenes with Heteroaryl and Aryl Chlorides Catalyzed by Palladium Indolylphosphine Complexes. *Chemistry – An Asian Journal* **2015**, *10* (4), 857-861.
2. Yang, Q.; Choy, P. Y.; Fan, B.; Kwong, F. Y., Enantioselective Hydroalkynylation of Non-Polar Carbon-Carbon Double Bonds: Iridium-Catalyzed Asymmetric Addition Reaction of Terminal Alkyne C-H Bonds to Substituted Norbornadienes. *Advanced Synthesis & Catalysis* **2015**, *357* (10), 2345-2350.
3. Hu, B.; Xin, G.-z.; So, P.-K.; Yao, Z.-P., Thin layer chromatography coupled with electrospray ionization mass spectrometry for direct analysis of raw samples. *Journal of Chromatography A* **2015**, *1415*, 155-160.
4. Leung, F. K.-C.; Cui, J.-F.; Hui, T.-W.; Kung, K. K.-Y.; Wong, M.-K., Photooxidative Amidation of Aldehydes with Amines Catalyzed by Rose Bengal. *Asian Journal of Organic Chemistry* **2015**, *4* (6), 533-536.
5. Po, K. H. L.; Wong, M. H. Y.; Chen, S., Identification and characterisation of a novel plasmid-mediated quinolone resistance gene, *qnrVC7*, in *Vibrio cholerae* of seafood origin. *International Journal of Antimicrobial Agents* **2015**, *45* (6), 667-668.
6. Yeung, C.-T.; Chan, W. T. K.; Yan, S.-C.; Yu, K.-L.; Yim, K.-H.; Wong, W.-T.; Law, G.-L., Lanthanide supramolecular helical diastereoselective breaking induced by point chirality: mixture or *P*-helix, *M*-helix. *Chemical Communications* **2015**, *51* (3), 592-595.
7. Wong, K.-F.; Deng, J.-R.; Wei, X.-Q.; Shao, S.-P.; Xiang, D.-P.; Wong, M.-K., Visual detection of formaldehyde by highly selective fluorophore labeling via gold(III) complex-mediated three-component coupling reaction. *Organic & Biomolecular Chemistry* **2015**, *13* (27), 7408-7411.
8. Wong, I. L. K.; Wang, B.-C.; Yuan, J.; Duan, L.-X.; Liu, Z.; Liu, T.; Li, X.-M.; Hu, X.; Zhang, X.-Y.; Jiang, T.; Wan, S.-B.; Chow, L. M. C., Potent and Nontoxic Chemosensitizer of P-Glycoprotein-Mediated Multidrug Resistance in Cancer: Synthesis and Evaluation of Methylated Epigallocatechin, Gallocatechin, and Dihydromyricetin Derivatives. *Journal of Medicinal Chemistry* **2015**, *58* (11), 4529-4549.
9. Lin, L.; Yang, Y.; Wang, M.; Lai, L.; Guo, Y.; Wang, R., Oxidative N-heterocyclic carbene catalyzed stereoselective annulation of simple aldehydes and 5-alkenyl thiazolones. *Chemical Communications* **2015**, *51* (38), 8134-8137.

10. Yang, D.; Wang, L.; Han, F.; Li, D.; Zhao, D.; Wang, R., Intermolecular Enantioselective Dearomatization Reaction of β -Naphthol Using meso-Aziridine: A Bifunctional In Situ Generated Magnesium Catalyst. *Angewandte Chemie International Edition* **2015**, *54* (7), 2185-2189.
11. Chiou, J.; Li, R.; Chen, S., CARB-17 Family of β -Lactamases Mediates Intrinsic Resistance to Penicillins in *Vibrio parahaemolyticus*. *Antimicrobial Agents and Chemotherapy* **2015**, *59* (6), 3593-3595.
12. Guo, J.; Wang, J.; Chan, E. W.; Chen, S., Exploration of endogenous substrate cleavage by various forms of botulinum neurotoxins. *Toxicon* **2015**, *100*, 42-45.
13. Yang, Q.; Zhou, Y.; Chen, J.; He, X.; Xu, J.; Kwong, F. Y.; Fan, B., Pd-Catalyzed Allylic Alkynylation of Allylic Acetates with Terminal Alkynes. *European Journal of Organic Chemistry* **2015**, *2015* (24), 5330-5333.
14. Lim, J.; Lachenmayer, M. L.; Wu, S.; Liu, W.; Kundu, M.; Wang, R.; Komatsu, M.; Oh, Y. J.; Zhao, Y.; Yue, Z., Proteotoxic Stress Induces Phosphorylation of p62/SQSTM1 by ULK1 to Regulate Selective Autophagic Clearance of Protein Aggregates. *PLoS Genetics* **2015**, *11* (2), e1004987.
15. Li, R.; Wong, M. H. Y.; Zhou, Y.; Chan, E. W.-c.; Chen, S., Complete Nucleotide Sequence of a Conjugative Plasmid Carrying blaPER-1. *Antimicrobial Agents and Chemotherapy* **2015**, *59* (6), 3582-3584.
16. Ng, T.-T.; So, P.-K.; Zheng, B.; Yao, Z.-P., Rapid screening of mixed edible oils and gutter oils by matrix-assisted laser desorption/ionization mass spectrometry. *Analytica Chimica Acta* **2015**, *884*, 70-76.
17. Lin, D.; Chen, S., First Detection of Conjugative Plasmid-Borne Fosfomycin Resistance Gene *fosA3* in *Salmonella* Isolates of Food Origin. *Antimicrobial Agents and Chemotherapy* **2015**, *59* (2), 1381-1383.
18. Jin, W.; Zheng, P.; Wong, W.-T.; Law, G.-L., Efficient Palladium-Catalyzed Direct C-H Phenylselenylation of (Hetero)Arenes in Water. *Asian Journal of Organic Chemistry* **2015**, *4* (9), 875-878.
19. Wong, M. H.-y.; Liu, L.; Yan, M.; Chan, E. W.-c.; Chen, S., Dissemination of IncI2 plasmids that harbor blaCTX-M element among clinical *Salmonella* isolates. *Antimicrobial Agents and Chemotherapy* **2015** in press.
20. Guo, J.; Chen, S., Expression and biochemical characterization of light chains of Botulinum neurotoxin subtypes F5 and F7. *Protein Expression and Purification* **2015**, *111*, 87-90.

21. Chan, F.-Y.; Sun, N.; Leung, Y.-C.; Wong, K.-Y., Antimicrobial activity of a quinuclidine-based FtsZ inhibitor and its synergistic potential with β -lactam antibiotics. *The Journal of Antibiotics* **2015**, *68* (4), 253-258.
22. Wong, M. H.-y.; Chan, E. W. C.; Chen, S., Isolation of carbapenem-resistant *Pseudomonas* spp. from food. *Journal of Global Antimicrobial Resistance* **2015**, *3* (2), 109-114.
23. Chung, P.-Y.; Bian, Z.-X.; Pun, H.-Y.; Chan, D.; Chan, A. S.-C.; Chui, C.-H.; Tang, J. C.-O.; Lam, K.-H., Recent advances in research of natural and synthetic bioactive quinolines. *Future Medicinal Chemistry* **2015**, *7* (7), 947-967.
24. Wang, Z.; Wong, I. L. K.; Li, F. X.; Yang, C.; Liu, Z.; Jiang, T.; Jiang, T. F.; Chow, L. M. C.; Wan, S. B., Optimization of permethyl ningalin B analogs as P-glycoprotein inhibitors. *Bioorganic & Medicinal Chemistry* **2015**, *23* (17), 5566-5573.
25. Chan, C.-W.; Lee, P.-Y.; Yu, W.-Y., Copper-catalyzed cross-dehydrogenative coupling of *N*-arylacrylamides with chloroform using tert-butyl peroxybenzoate as oxidant for the synthesis of trichloromethylated 2-oxindoles. *Tetrahedron Letters* **2015**, *56* (20), 2559-2563.
26. Chiou, J.; Wan, S.; Chan, K.-F.; So, P.-K.; He, D.; Chan, E. W.-C.; Chan, T.-H.; Wong, K.-Y.; Tao, J.; Chen, S., Ebselen as a potent covalent inhibitor of New Delhi metallo- β -lactamase (NDM-1). *Chemical Communications* **2015**, *51* (46), 9543-9546.
27. Chan, C.-F.; Lan, R.; Tsang, M.-K.; Zhou, D.; Lear, S.; Chan, W.-L.; Cobb, S. L.; Wong, W.-K.; Hao, J.; Wong, W.-T.; Wong, K.-L., Directional Plk1 inhibition-driven cell cycle interruption using amphiphilic thin-coated peptide-lanthanide upconversion nanomaterials as *in vivo* tumor suppressors. *Journal of Materials Chemistry B* **2015**, *3* (13), 2624-2634.
28. Wong, S. M.; Yuen, O. Y.; Choy, P. Y.; Kwong, F. Y., When cross-coupling partners meet indolyphosphines. *Coordination Chemistry Reviews* **2015**, *293–294*, 158-186.
29. Li, R.; Lin, D.; Chen, K.; Wong, M. H. Y.; Chen, S., First detection of AmpC β -lactamase blaCMY-2 on a conjugative IncA/C plasmid in *Vibrio parahaemolyticus* of food origin. *Antimicrobial Agents and Chemotherapy* **2015**, in press.
30. Yang, Y.; Deng, J.; Yao, Z.-P., Field-induced wooden-tip electrospray ionization mass spectrometry for high-throughput analysis of herbal medicines. *Analytica Chimica Acta* **2015**, *887*, 127-137.

31. Wong, M. H. Y.; Chan, E. W. C.; Chen, S., Evolution and Dissemination of *OqxAB*-Like Efflux Pumps, an Emerging Quinolone Resistance Determinant among Members of *Enterobacteriaceae*. *Antimicrobial Agents and Chemotherapy* **2015**, *59* (6), 3290-3297.
32. Yang, G.; Li, N.; Chow, H.-Y.; Xu, Q.; Zhang, H.; Ruiz, J.; Lai, X.; Astruc, D.; Wong, K.-Y.; Zhao, P., Gold Nanosweepers (AuNSs): A Novel Application of PEGylated-AuNPs. *Chemistry Letters* **2015**, in press.
33. Deng, J.; Yang, Y.; Xu, M.; Wang, X.; Lin, L.; Yao, Z.-P.; Luan, T., Surface-Coated Probe Nanoelectrospray Ionization Mass Spectrometry for Analysis of Target Compounds in Individual Small Organisms. *Analytical Chemistry* **2015**, *87* (19), 9923-9930.
34. Song, C. L.; Tang, H.; Ran, L. K.; Ko, B. C. B.; Zhang, Z. Z.; Chen, X.; Ren, J. H.; Tao, N. N.; Li, W. Y.; Huang, A. L.; Chen, J., Sirtuin 3 inhibits hepatocellular carcinoma growth through the glycogen synthase kinase-3 β /BCL2-associated X protein-dependent apoptotic pathway. *Oncogene* **2015** in press.
35. Lam, P. L.; Kok, S. H. L.; Gambari, R.; Kok, T. W.; Leung, H. Y.; Choi, K. L.; Wong, C. S.; Hau, D. K. P.; Wong, W. Y.; Lam, K. H.; Bian, Z. X.; Lee, K. K. H.; Chui, C. H., Evaluation of berberine/bovine serum albumin nanoparticles for liver fibrosis therapy. *Green Chemistry* **2015**, *17* (3), 1640-1646.
36. Fu, W. C.; So, C. M.; Chow, W. K.; Yuen, O. Y.; Kwong, F. Y., Design of an Indolylphosphine Ligand for Reductive Elimination-Demanding Monoarylation of Acetone Using Aryl Chlorides. *Organic Letters* **2015**, *17* (18), 4612-4615.
37. Tsang, M.-W.; Chan, P.-H.; Liu, S.-Y.; Wong, K.-Y.; Leung, Y.-C., A fluorescein-labeled AmpC β -lactamase allows rapid characterization of β -lactamase inhibitors by real-time fluorescence monitoring of the β -lactamase-inhibitor interactions. *Biotechnology Journal* **2015**, in press.
38. He, D.; Chiou, J.; Zeng, Z.; Liu, L.; Chen, X.; Zeng, L.; Chan, E. W. C.; Liu, J.-H.; Chen, S., Residues Distal to the Active Site Contribute to Enhanced Catalytic Activity of Variant and Hybrid β -Lactamases Derived from CTX-M-14 and CTX-M-15. *Antimicrobial Agents and Chemotherapy* **2015**, *59* (10), 5976-5983.
39. Lun, Z.-R.; Wu, M.-S.; Chen, Y.-F.; Wang, J.-Y.; Zhou, X.-N.; Liao, L.-F.; Chen, J.-P.; Chow, L. M. C.; Chang, K. P., Visceral Leishmaniasis in China: an Endemic Disease under Control. *Clinical Microbiology Reviews* **2015**, *28* (4), 987-1004.
40. Tsang, M.-W.; So, P.-K.; Liu, S.-Y.; Tsang, C.-W.; Chan, P.-H.; Wong, K.-Y.; Leung, Y.-C., Catalytically impaired fluorescent Class C β -lactamase enables rapid and

sensitive cephalosporin detection by stabilizing fluorescence signals: Implications for biosensor design. *Biotechnology Journal* **2015**, *10* (1), 126-135.

41. Zhu, L.; Yu, H.; Guo, Q.; Chen, Q.; Xu, Z.; Wang, R., C–H Bonds Phosphorylation of Ketene Dithioacetals. *Organic Letters* **2015**, *17* (8), 1978-1981.

42. Ha, E.; Lee, L. Y. S.; Man, H.-W.; Tsang, S. C. E.; Wong, K.-Y., Morphology-Controlled Synthesis of Au/Cu₂FeSnS₄ Core–Shell Nanostructures for Plasmon-Enhanced Photocatalytic Hydrogen Generation. *ACS Applied Materials & Interfaces* **2015**, *7* (17), 9072-9077.

43. Choy, P. Y.; Luk, K. C.; Wu, Y.; So, C. M.; Wang, L.-I.; Kwong, F. Y., Regioselective Direct C-3 Arylation of Imidazo[1,2-a]pyridines with Aryl Tosylates and Mesylates Promoted by Palladium–Phosphine Complexes. *The Journal of Organic Chemistry* **2015**, *80* (3), 1457-1463.

44. Yan, C. S. W.; Wong, I. L. K.; Chan, K.-F.; Kan, J. W. Y.; Chong, T. C.; Law, M. C.; Zhao, Y.; Chan, S. W.; Chan, T. H.; Chow, L. M. C., A New Class of Safe, Potent, and Specific P-gp Modulator: Flavonoid Dimer FD18 Reverses P-gp-Mediated Multidrug Resistance in Human Breast Xenograft in Vivo. *Molecular Pharmaceutics* **2015**, *12* (10), 3507-3517.

45. Ng, F.-N.; Lau, Y.-F.; Zhou, Z.; Yu, W.-Y., [Rh^{III}(Cp*)]-Catalyzed Cascade Arylation and Chlorination of α -Diazocarbonyl Compounds with Arylboronic Acids and *N*-Chlorosuccinimide for Facile Synthesis of α -Aryl- α -chloro Carbonyl Compounds. *Organic Letters* **2015**, *17* (7), 1676-1679.

46. Chung, P.-Y.; Gambari, R.; Chen, Y.-X.; Cheng, C.-H.; Bian, Z.-X.; Chan, A.-C.; Tang, J.-O.; Leung, P.-M.; Chui, C.-H.; Lam, K.-H., Development of 8-benzyloxy-substituted quinoline ethers and evaluation of their antimicrobial activities. *Medicinal Chemistry Research* **2015**, *24* (4), 1568-1577.

47. Ng, F.-N.; Lau, Y.-F.; Zhou, Z.; Yu, W.-Y., [Rh^{III}(Cp*)]-Catalyzed Cascade Arylation and Chlorination of α -Diazocarbonyl Compounds with Arylboronic Acids and *N*-Chlorosuccinimide for Facile Synthesis of α -Aryl- α -chloro Carbonyl Compounds. *Organic Letters* **2015**, *17* (7), 1676-1679.

48. Wong, S. M.; Choy, P. Y.; Yuen, O. Y.; So, C. M.; Kwong, F. Y. A General Indolylphosphine phosphine CM-Phos Synthesis. *Organic Syntheses* **2015**, *92*, in press.

49. Wong, S. M.; Choy, P. Y.; Yuen, O. Y.; So, C. M.; Kwong, F. Y. Palladium-catalyzed Buchwald-Hartwig Amination and Suzuki-Miyaura Cross-coupling Reaction of Aryl Mesylates *Organic Syntheses* **2015**, *92*, 195.

Summary

Total number of publications: **49**

Journal impact factor > 10: **3** publications;

Journal impact factor > 5: **16** publications;

Journal impact factor > 3: **38** publications

期刊 Journal	数量 No. of publication	2014 年 影响因子 2014 impact factor
<i>Clinical Microbiology Reviews</i>	1	17.406
<i>Coordination Chemistry Reviews</i>	1	12.239
<i>Angewandte Chemie International Edition</i>	1	11.261
<i>Oncogene</i>	1	8.459
<i>Green Chemistry</i>	1	8.020
<i>PLoS Genetics</i>	1	7.528
<i>Chemical communications</i>	3	6.834
<i>ACS Applied Materials & Interfaces</i>	1	6.723
<i>Organic Letters</i>	4	6.364
<i>Advanced Synthesis & Catalysis</i>	1	5.663
<i>Analytical Chemistry</i>	1	5.636
<i>Journal of Materials Chemistry B</i>	1	4.726
<i>The Journal of Organic Chemistry</i>	1	4.721
<i>Chemistry An Asian Journal</i>	1	4.587
<i>Analytica Chimica Acta</i>	2	4.513
<i>Antimicrobial Agents and Chemotherapy</i>	7	4.476
<i>Molecular Pharmaceutics</i>	1	4.384
<i>International Journal of Antimicrobial Agents</i>	1	4.296
<i>Journal of Chromatography A</i>	1	4.169
<i>Future Medicinal Chemistry</i>	1	3.744
<i>Organic & Biomolecular Chemistry</i>	1	3.562

<i>Biotechnology Journal</i>	2	3.490
<i>Asian Journal of Organic Chemistry</i>	2	3.318
<i>European Journal of Organic Chemistry</i>	1	3.065
<i>Bioorganic & Medicinal Chemistry</i>	1	2.793
<i>Toxicon</i>	1	2.492
<i>Tetrahedron Letters</i>	1	2.379
<i>Toxicon</i>	1	2.492
<i>The Journal of Antibiotics</i>	1	1.730
<i>Protein Expression and Purification</i>	1	1.695
<i>Medicinal Chemistry Research</i>	1	1.402
<i>Chemistry Letters</i>	1	1.230
<i>Journal of Global Antimicrobial Resistance</i>	1	1.086
<i>Organic Syntheses</i>	2	Not available

合计 49
