




Zhipeng Zheng, Ph.D.

Technology Specialist

 Washington, D.C.

 202-626-6384

 zhipeng@fr.com

Overview

About Zhipeng

Zhipeng Zheng, Ph.D., is a technology specialist in the Washington, D.C., office of Fish & Richardson P.C. Dr. Zheng focuses his practice on patent prosecution support in life sciences and chemical sciences, including performing patentability and market assessments, patent landscape analyses, and freedom to operate analyses. He has extensive technical expertise in the fields of organic chemistry, synthetic method development, analytical chemistry and small-molecule pharmaceuticals. Prior to joining Fish, Dr. Zheng worked for many years in research and development at the University of Pennsylvania (Penn), where he worked on small molecule and drug derivative synthesis, organo-catalysis, high-throughput screening, and polymerization. Dr. Zheng is the author of 21 publications in a variety of peer-reviewed journals. While at graduate school, Dr. Zheng was also a fellow at the Penn Center for Innovation, where he conducted patentability and marketing assessment of technologies invented by Penn's researchers.

Focus Areas

Services

- Patent

Industries

- Chemicals
- Life Sciences

Education

Ph.D., Organic Chemistry, University of Pennsylvania (2020)

M.S., Inorganic Chemistry, South China Normal University (2015)

B.S., Chemistry, South China Normal University (2012)

Insights

Selected Publications

Zheng, Z.; Walsh, P. J. Efficient Synthesis of Bulky 2,2'-Bipyridine and (S)-Pyridine-Oxazoline Ligands. *Adv. Synth. Catal.* 2020, DOI: 10.1002/adsc.202001218 (Selected as a Very Important Publication by the journal)

Zheng, Z.; Trofymchuk, O. S.; Kurogi, T.; Varela, E.; Mindiola, D.; Walsh, P. J. Selenenate Anions (PhSeO⁻) as Organocatalyst: Synthesis of *trans*-Stilbenes and a PPV Derivative. *Adv. Synth. Catal.* 2020, 362, 659

Wu, C.; McCollom, S. P.; Zheng, Z.; Zhang, J.; Sha, S.-C.; Li, M.; Walsh, P. J.; Tomson, N. C. Aryl Fluoride Activation Through Palladium-Magnesium Bimetallic Cooperation: A Mechanistic and Computational Study. *ACS Catal.* 2020, 10, 7934

Wang, Z.; Zheng, Z.; Xu, X.; Mao, J.; Walsh, P. J. One-pot aminobenzoylation of aldehydes with toluenes. *Nat. Commun.* 2018, 9, 3365

Mao, J.; Wang, Z.; Xu, X.; Liu, G.; Jiang, R.; Guan, H.; Zheng, Z.; Walsh, P. J. Synthesis of Indoles through Domino Reactions of 2-Fluorotoluenes and Nitriles. *Angew. Chem. Int. Ed.* 2019, 58, 11033

Liang, X.; Wu, C.; Zheng, Z.; Walsh, P. J. Nickel-Catalyzed Oxidative Coupling Reaction of Phenyl Benzyl Sulfoxides. *Organometallics* 2018, 37, 3132

Zheng, Z.; Wei, Q.; Cai, Y.-P. *et al.* Two Schiff Base Ligands for Distinguishing Zn^{II}/Cd^{II} Sensing – effect of Substituent on Fluorescent Sensing. *RSC Adv.* 2015, 5, 27682

Zheng, Z.; Ou, Y.-J.; Cai, Y.-P. *et al.* Anion-Dependent Assembly of Four Sensitized Near-Infrared Luminescent Heteronuclear Zn^{II}–Yb^{III} Schiff Base Complexes from a Trinuclear Zn^{II}. *Inorg. Chem.* 2014, 53, 9625

Zheng, Z.; Zhang, X.-X.; Cai, Y.-P. *et al.* Construction of Four Low-Dimensional NIR-Luminescence-Tunable Yb(III) Complexes. *Trans.* 2014, 43, 14009

Languages

- English
- Mandarin Chinese
- Cantonese Chinese