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**Education:** June 2002 - March 2005 **Postdoctoral Research Associate**  
University of California, Berkeley  
Mentors: Dr. Paul Bartlett, Dr. Dean Toste  
Aug. 1998 - May 2002 **Ph.D.** Department of Chemistry  
University of Maryland, College Park  
Mentor: Dr. Jeffery T. Davis  
Sept. 1994 - July 1997 **MS**, Department of Chemistry  
Nankai University, China  
Sept. 1990 - July 1994 **BS**, Department of Chemistry  
Nankai University, China

## Professional Experience:

May 2017 - present Professor, Department of Chemistry  
University of South Florida  
August 2015 - May 2017 Associate Professor, Department of Chemistry  
University of South Florida  
Aug. 2005 - August 2015 Assistant, Associate and Full Professor  
Bennett Department of Chemistry  
West Virginia University  
April 2005 - July 2005 Platform Research Scientist  
General Electric Advanced Material  
June 2002 - March 2005 Postdoctoral Research Associate  
University of California, Berkeley

## Honors and Awards:

- Changjiang Scholar Visiting Professor (2017)
- CAPA (Chinese-American-Professor-Association) Distinguished Faculty Award (2017)
- NSF Career award (2009)
- Outstanding Faculty Award, Department of Chemistry, West Virginia University (2009, 2011)
- Outstanding Research Assistant Awards from University of Maryland (2002)

## Publications from *Independent career*:

- (101) Li, P.; Zhao, J.; Shi, L.; Wang, J.; Shi, X.\*; Li, F.\* "Iodine Catalyzed Diazo Activation to Access Radical Reactivity" *Nat. Commun.* **2018**, 9, 1072.
- (100) Ye, X.; Peng, H.; Wei, C.; Teng, Y.; Wojtas, L.; Shi, X.\* "Gold-Catalyzed Oxidative Coupling of Alkynes towards the Synthesis of Cyclic Conjugated Dienes" *Chem* **2018**, 4, 1983-1993.

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- (98) Zhang, F.; Lai, Q.; Shi, X.;\* Song, Z.\* "Triazole-Gold (TA-Au) Catalyzed Three-Component Coupling (A3 reaction) towards the Synthesis of 2,4-Disubstituted Quinoline Derivatives" *Chin. Chem. Lett.* **2018**, ASAP.
- (97) Motika, S. E.; Shi, X.\* "Synthesis and Application of a Novel Bis-1,2,3-Triazole Ligand Containing a 2,2'-Bipyrrolidine Core" *Arkivoc*, **2018**, 280-287.
- (96) Lei, X.; Zheng, L.; Zhang, C.; Shi, X.;\* Chen, Y.\* "Allylic C-S Bond Construction through Metal-Free Direct Nitroalkene Sulfonation" *J. Org. Chem.* **2018**, *83*, 1772-1778.
- (95) Lu, M.; Su, Y.; Zhao, P.; Ye, X.; Cai, Y.; Shi, X.;\* Masson, E.;\* Li, F.; Campbell, J. L.; Chen, H.\* "Direct Evidence for the Origin of Bis-Gold Intermediates: Probing Gold Catalysis with Mass Spectrometry" *Chem. Eur. J.* **2018**, *24*, 2144-2150.
- (94) Ye, X.; Wang, J.; Ding S.; Hosseyni, S.; Wojtas, L.; Akhmedov, N. G.; Shi, X.\* "Investigations on Gold-Catalyzed Thioalkyne Activation Toward Facile Synthesis of Ketene Dithioacetals" *Chem. Eur. J.* **2017**, *23*, 10506-10510.
- (93) Dong, B.; Peng, H.; Motika, S.; Shi, X.\* "Gold Redox Catalysis through Base Initiated Diazonium Decomposition toward Alkene, Alkyne and Allene Activation" *Chem. Eur. J.* **2017**, *23*, 11093-11099.
- (92) Smith, C. A.; Motika, S. E.; Wojtas, L.; Shi, X.\* "Accessing Alternative Reaction Pathways of the Intermolecular Condensation between Homo-Propargyl Alcohols and Terminal Alkynes through Divergent Gold Catalysis" *Chem. Commun.* **2017**, *53*, 2315-2318.
- (91) Cai, R.; Ye, X.; Sun, Q.; He, Q.; He, Y.; Ma, S.\*; Shi, X.\* "Anchoring Triazole-Gold(I) Complex into Porous Organic Polymer to Boost the Stability and Reactivity of Gold(I) Catalyst" *ACS Catal.* **2017**, *7*, 1087-1092.
- (90) Basanta-Sanchez, M.; Wang, R.; Liu, Z.; Ye, X.; Li, M.; Shi, X.; Agris, P. F.; Zhou, Y.; Huang, Y.\*; Sheng, J.\* "TET1-Mediated Oxidation of 5-Formylcytosine (5fC) to 5-Carboxycytosine (5caC) in RNA" *ChemBioChem.* **2017**, *18*, 72-76.
- (89) Hosseyni, S.; Smith, C. A.; Shi, X.\* "Gold-Catalyzed Vinyl Ether Hydroalkynylation: An Alternative Pathway for the Gold-Catalyzed Intermolecular Reaction of Alkenes and Alkynes" *Org. Lett.* **2016**, *18*, 6336-6339.
- (88) Motika, S. E.; Wang, Q.; Akhmedov, N. G.; Wojtas, L.; Shi, X.\* "Regioselective Amine-Borane Cyclization: Towards the Synthesis of 1,2-BN-3-cyclohexene via Copper Assisted Triazole Gold Catalysis" *Angew. Chem. Int. Ed.* **2016**, *55*, 11582-11586.
- (87) Peng, H.; Cai, R.; Chang, X.; Chen, H.;\* Shi, X.\* "Nucleophile Promoted Gold Redox Catalysis with diazonium: C-Br, C-S and C-P Bond Formation through Catalytic Sandmeyer Coupling" *Chem. Sci.* **2016**, *7*, 6190-6196.
- (86) Yang, Y.; Hu, W.; Ye, X.; Wang, D.;\* Shi, X.\* "Preparation of Triazole Gold(III) Complex as an Effective Catalyst for the Synthesis of E- $\alpha$ -Haloenones" *Adv. Synth. Catal.* **2016**, *358*, 2583-2588.
- (85) Thummanapelli, S.; Hosseyni, S.; Su, Y.; Akhmedov, N.; Shi, X.\* "Ligand-Controlled Gold(I)-Catalyzed Cycloisomerization of 1,n-Enyne Esters toward

- Synthesis of Dihydronaphthalene" *Chem. Commun.* **2016**, 52, 7687-7690.
- (84) Ye, X.; Xu, C.; Wojtas, L.; Akhmedov, N.; Chen, H.\*; Shi, X.\* "Silver-Free Palladium-Catalyzed sp<sup>3</sup> and sp<sup>2</sup> C-H Alkynylation Promoted by a 1,2,3-Triazole Amine Directing Group" *Org. Lett.* **2016**, 18, 2970-2973.
- (83) Hosseyni, S.; Wojtas, L.; Li, M.; Shi, X.\* "Intermolecular Homopropargyl Alcohol Addition to Alkyne and a Sequential 1,6-Enyne Cycloisomerization with Triazole-Gold Catalyst" *J. Am. Chem. Soc.* **2016**, 138, 3994-3997.
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- (81) Yang, Y.; Shen, Y.; Wang, X., Zhang, Y.; Wang, D.\*; Shi, X.\* "Triazole Acetyl Gold(III) Catalyzed Meyer-Schuster Rearrangement of Propargyl Alcohols" *Tetrahedron Lett.* **2016**, 57, 2280-2282.
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- (79) Wang, D.\*; Yu, X.; Yao, W.; Hu, W.; Ge, C.; Shi, X.\* "Copper-Catalyzed Reaction Cascade of Thiophenol Hydroxylation and S-Arylation through Disulfide-Directed C-H Activation" *Chem. Eur. J.* **2016**, 22, 5543-5546.
- (78) Ma, Z.; Lin, Y.; Cheng, Y.; Wu, W.; Cai, R.; Chen, S.; Shi, B.; Han, B.; Shi, X.; Zhou, Y.; Du, L.; Li, M.\* "Discovery of the First Environment-Sensitive Near-Infrared (NIR) Fluorogenic Ligand for  $\alpha$ 1-Adrenergic Receptors Imaging in Vivo" *J. Med. Chem.* **2016**, 59, 2125-2162.
- (77) Dong, B.; Xi, Y.; Su, Y.; Akhmedov, N. G.; Petersen, J. L.; Shi, X.\* "Gold/gallium-catalyzed annulation of 1,3-dicarbonyl compounds and cyclopropylacetylenes for synthesis of substituted cyclopentenes" *RSC Adv.* **2016**, 6, 17386-17389.
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