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Education:

06/2002 - 04/2005	**Postdoc,** Dept. of Chemistry, Univ. of California, Berkeley Mentors: Dr. Paul Bartlett, Dr. Dean Toste
08/1998 - 05/2002	**Ph.D.** Dept. of Chemistry, Univ. of Maryland, College Park Mentor: Dr. Jeffery T. Davis
09/1994 – 07/1997	**MS**, Dept. of Chemistry, Nankai University, China
09/1990 – 07/1994	**BS**, Dept. of Chemistry, Nankai University, China

Professional Experience:

08/2019 - present	Associate Chair, Dept. of Chemistry, Univ. of South Florida
05/2017 - present	Professor, Dept. of Chemistry, Univ. of South Florida
08/2015 - 05/2017	Associate Professor, Dept. of Chemistry, Univ. of South Florida
08/2005 - 08/2015	Assistant, Associate and Full Professor, Dept. of Chemistry, West Virginia University
04/2005 - 08/2005	Platform Research Scientist, General Electric Advanced Material

Selected recent publications:

1) *J. Am. Chem. Soc.* **2021**, *143*, 4074-4082.
2) *Angew. Chem. Int. Ed.* **2020**, *59,* 20470-20474.
3) *ACS Catal.* **2020***, 10, 11693-11699.*
4) *Chem* **2020**, *6*, 1420-1431.
5) *Cell Rep. Phy. Sci.,* **2020**, *1*, 100211
6) *Angew. Chem. Int. Ed.* **2019**, *58*, 17226-17230.
7) *Chem. Sci.* **2019***, 10*, 4192-4199.
8) *Chem* **2018**, *4*, 1983-1993.
9) *Nat. Commun.* **2018**, *9*, 1972.
10) *Angew. Chem. Int. Ed.* **2018**, *57*, 6915-6920.
11) *ACS Catal.* **2017**, *7*, 1087-1092.
12) *Angew. Chem. Int. Ed.* **2016**, *55*, 11582-11586.
13) *Angew. Chem. Int. Ed.* **2016**, *55*, 350-354.
14) *J. Am. Chem. Soc.* **2016,** *138*, 3994-3997.
15) *Chem. Sci.* **2016**, *7*, 6190-6196.
16) *J. Am. Chem. Soc.* **2015**, *137*, 8912-8915.
17) *Angew. Chem. Int. Ed.* **2015**, *54*, 8772-8776.
18) *Chem. Mater.* **2015**, *27*, 2144-2151.
19) *J. Am. Chem. Soc.* **2014**, *136*, 13174-13177.
20) *Angew. Chem. Int. Ed.* **2014**, *53*, 9975-9979.

21) *Angew. Chem. Int. Ed.* **2014**, *53*, 5418-5422.
22) *Angew. Chem. Int. Ed.* **2014**, *53*, 4657-4661.
23) *Chem. Sci.* **2013**, *4*, 3712-3716.
24) *J. Am. Chem. Soc.* **2012**, *134, 134*, 9012-9019.
25) *J. Am. Chem. Soc.* **2009,** *131*, 12100-12102.
26) *Angew. Chem. Int. Ed.* **2009**, *48*, 1279-1282.

Honors and Awards:

- Stanford University List of World Top 2% Scientists: Annual 2019
- Chair of Graduate Recruiting at USF Chemistry Department, 2016-now
- Director of Graduate Study at WVU 2010-02015
- CAPA (Chinese-American-Professor-Association) Distinguished Faculty Award (2017)
- International Symposium Young Chinese Chemists Rising Star 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)

Full Publications List from *Independent career since 2005:*

(126) Yuan, T; Tang, Q.; Wang, J.; Shan, C.; Zhao, P.; Wojtas, L.; Hadler, N.; Chen, H.; Shi, X.* " Alkyne Trifunctionalization via Divergent Gold Catalysis: Combining π-Acid Activation, Vinyl-Gold Addition and Redox Catalysis " *J. Am. Chem. Soc.* **2021**, *143*, 4074-4082.

(125) Zhang, S.; Ye, X.; Wojtas, L.; Hao, W.; Shi, X.* "Electrochemical Gold Redox Catalusis for Sleective Oxidative Arylation" *Green Syn. Catal.* **2021**, *2*, 82-86.

(124) Wang, Y.; Zheng, L.; Shi, X.*; Chen, Y.* "1,3-Difunctionalization of B-Alkyl Nitroalkenes via Combination of Lewis Base Catalysis and Radical Oxidation" *Org. Lett.* **2021**, *23*, 886-889.

(123) Li, J.; He, Y.; Wang, L.; Li, G.; Zou, Y.; Yan, Y.; Li, D.; Shi, X.; Song, Z.; Shi, X. "Construction of fluorescence active MOFs with symmetrical and conformationally rigid N-2-aryl-triazole ligands" *RSC Adv.* **2020**, *10*, 41921-41925.

(122) Zhao, K.; He, Y.; Shan, C.; Ren, J.; Wojtas, L.; Wang, L.; Li, G.; Song, Z.*; Shi, X.* "Orthogonal-Twisted-Arm Ligands for The Construction of Metal-Organic Frameworks: New Topology and Catalytic Reactivity" *Chem. Eur. J.* **2020**, *26*, 16272-16276.

(121) Li, Z.; Lin, Y.; Song, H.; Qin, X.; Yu, Z.; Zhang, Z.; Dong, G.; Li, X.; Shi, X.; Du, L.; Zhao, W.; Li, M.* "First small-molecule PROTACs for G protein-coupled receptors: inducing a1A-adrenergic receptor degradation" *Acta Pharm. Sin. B,* **2020**, *10*, 1669-1679.

(120) Zhang, Y.; He, Y.; Wojtas, L.; Shi, X.*; Guo, H.* " Construction of Supramolecular Organogel with Circularly Polarized Luminescence by Self Assembled Guanosine Octamer" *Cell Rep. Phy. Sci.,* **2020**, *1*, 100211.

(119) Zhang, X.; Ren, G.*; He, Z.; Yang, W.; Li, H.; Wang, Y.; Pan, Q.*; Shi, X.* "Luminescent detection of Cr(VI) and Mn(VII) based on a stable supramolecular organic framework" *Cryst. Growth Des.* **2020**, *20,* 6888-6895.

(118) Ye, X.; Wang, C.; Zhang, S.; Wei, J.; Shan, C.; Wojtas, L.; Xie, Y.; Shi, X.* "Facilitating Ir-Catalyzed C-H Alkynylation with Electrochemistry: Anodic Oxidation Induced Reductive Elimination" *ACS Catal.* **2020**, *10,* 11693-11699.

(117) Zhang, S.; Wang, C.; Ye, X.; Shi, X.* "Intermolecular Alkene Difunctionalization via Gold Catalyzed Oxyarylation" *Angew. Chem. Int. Ed.* **2020**, *59,* 20470-20474.

(116) Wei, C.; He, Y.; Wang, J.; Ye, X.; Wojtas, L.; Shi, X.* "Hexafluoroisopropanol-Promoted Disulfidation and Diselenation of Alkyne, Alkene, and Allene." *Org. Lett.*, **2020**, *22*, 5462-5465.

(115) Li, X.; Ye, X.; Wei, C.; Shan, C.; Wojtas, L.; Wang, Q.*; Shi, X.* "Diazo Activation with Diazonium Salts: Synthesis of Indazole and 1,2,4-Triazole." *Org. Lett.*, **2020**, *22*, 4151-4155.

(114) Yuan, T.; Ye, X.; Zhao, P.; Teng, S.; Yi, Y.; Wang, J.; Shan, C.; Wojtas, L; Jean, J.; Chen, H.; Shi, X.* "Regioselective Crossed Aldol Reactions under Mild Conditions via Synergistic Gold/Iron Catalysis" *Chem,* **2020**, *6*, 1420-1431.

(113) Li, J.; He, Y.; Wang, L.; Pan, Q. H.; Song, Z.; Shi, X.* "Design and Synthesis of Photoluminescent Active Interpenetrating Metal-Organic Frameworks Using N-2-Aryl-1,2,3-Triazole Ligands." *Dalton Trans*., **2020**, *49*, 5429-5433.

(112) Wang, J.; Wei, C.; Li, X.; Zhao, P.; Shan, C.; Wojtas, L.; Chen, H.; Shi, X.* "Gold Redox Catalysis with a Selenium Cation as Mild Oxidant." *Chem. Eur. J.* **2020**, *26*, 5946-5950.

(111) He, Y.; Zhang, Y.; Wojtas, L.; Akhmedov, N.; Pan, Q.; Guo, H.; Shi, X.* "Reversed Cation Selectivity of G8-Octamer and G16-Hexadecamer towards Monovalent and Divalent Cations" *Chem. Asian J.* **2020**, *15*, 1030-1034.

(110) Qin, X.; Ma, Z.; Yang, X.; Hu, S.; Chen, X.; Liang, D.; Lin, X.; Shi, X.; Du, L.; Li, M.* "Discovery of Environment-Sensitive Fluorescent Agonists for a1-Adrenergic Receptors" *Anal. Chem.* **2019**, *91*, 12173-12180.

(109) Peng, X.; Hu, Z.; Zhang, J.; Ning, W.; Zhang, S.; Doing, C.; Shi, X.*; Zhou, H.* "Construction of benzofuranone library via a metal-free, one-pot intermolecular condensation, and their application as efficient estrogen receptor modulators" *Chem. Commun.* **2019***, 55, 14570-14573.*

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(106) Wei, C.; Ye, X.; Xing, Q.; Hu, Y.;* Xie, Y.;* Shi, X.* "Synergistic palladium/enamine catalysis for asymmetric hydrocarbon functionalization of unactivated alkenes with ketones" *Org. Biomol. Chem.* **2019***, 17*, 6607-6611.

(105) He, Y.; Zhang, Y.; Wojtas, L.; Akhmedov, N. G.; Thai, D.; Wang, H.; Li, X.; Guo, H.*; Shi, X.* "Construction of cross-layer linked G-octamer via conformational control: stable G-quadruplex in H-bond competitive solvent " *Chem. Sci.* **2019**, *10*, 4192-4199.

(104) Lai, Q.; Liu, Q.; Zhao, K.; Shan, C.; Wojtas, L.; Zheng, Q.; Shi, X.;* Song, Z.* "Rational design and synthesis of yellow-light emitting triazole fluorophores with

AIE and mechanochromic properties ” *Chem. Commun.* **2019**, *55*, 4603-4606.
(103) Wei, C.; He, Y.; Shi, X.;* Song, Z.* “Terpyridine-Metal Complexes: Applications in catalysis and supramolecular chemistry” *Coordin. Chem. Rev.* **2019**, *385*, 1-19.
(102) Ye, X.; Peng, H.; Wei, C.; Teng, Y.; Wojtas, L.; Shi, X.;* “Gold-Catalyzed Oxidative Coupling of Alkynes towards the Synthesis of Cyclic Conjugated Diynes” *Chem* **2018**, *4*, 1983-1993.
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(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.
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(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) to5-Carboxycytosine (5caC) in RNA” *ChemBioChem.* **2017**, *18*, 72-76.
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(88) Motika, S. E.; Wang, Q.; Akmendov, 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.

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(82) Yang, Y.; Qin, A.; Zhao, K.; Wang, D.*; Shi, X.* "Design and Synthesis of Alanine Triazole Lgands and Application in Promotion of Hydration, Allene Synthesis and Borrowing Hydrogen Reactions" *Adv. Synth. Catal. **2016***, *358*, 1433-1439.

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(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.

(76) Hosseyni, S.; Ding, S.; Su, S.; Akhmedov, N. G.; Shi, X.* "Triazole-Gold Promoted Intermolecular Propargyl Alcohol Addition to Alkyne: Reaction Cascade Toward Substituted Allenes" *Chem. Commun.* **2016**, *52*, 296-299.

(75) Qin, C.; Su, Y.; Shi, X.*; Jiao, N* "Split A Substrate to Three Parts and Reassemble: Au-Catalyzed Nitrogenation of Alkynes via C-C and C≡C Bond Cleavages" *Angew. Chem. Int. Ed.* **2016**, *55*, 350-354.

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