

Xiaodong Michael Shi

Department of Chemistry
University of South Florida
Tampa, FL 33620

Phone: 240-350-4723
Fax: 813-974-3203
Email: xmshi@usf.edu

Website: <http://xmshi.myweb.usf.edu>

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:

08/2023 – present Professor, Department of Chemistry and Biochemistry,
Univ. of Maryland College Park

05/2015 – 08/2023 Professor and Associate Chair, Department of Chemistry,
University of South Florida

08/2005 – 08/2015 Assistant, Associate and Full Professor, Department of Chemistry,
West Virginia University

04/2005 - 08/2005 Platform Research Scientist, General Electric Advanced Material

Honors and Awards:

- Department Associate Chair at USF Chemistry Department, 2019-2023.
- Chair of Graduate Recruiting at USF Chemistry Department, 2016-2023.
- Changjiang Visiting Scholar 2018
- Director of Graduate Study at WVU 2010-2015
- 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)

Selected recent publications from independent career:

- 1) *Nat. Commun.* **2023**, *14*, 8265.
- 2) *Angew. Chem. Int. Ed.* **2023**, e202305409.
- 3) *Angew. Chem. Int. Ed.* **2023**, e202305810.
- 4) *J. Am. Chem. Soc.* **2021**, *143*, 4074-4082.
- 5) *Angew. Chem. Int. Ed.* **2020**, *59*, 20470-20474.
- 6) *ACS Catal.* **2020**, *10*, 11693-11699.
- 7) *Chem* **2020**, *6*, 1420-1431.
- 8) *Angew. Chem. Int. Ed.* **2019**, *58*, 17226-17230.
- 9) *Chem* **2018**, *4*, 1983-1993.
- 10) *Nat. Commun.* **2018**, *9*, 1972.
- 11) *Angew. Chem. Int. Ed.* **2018**, *57*, 6915-6920.
- 12) *ACS Catal.* **2017**, *7*, 1087-1092.
- 13) *Angew. Chem. Int. Ed.* **2016**, *55*, 11582-11586.

- 14) *Angew. Chem. Int. Ed.* **2016**, *55*, 350-354.
- 15) *J. Am. Chem. Soc.* **2016**, *138*, 3994-3997.
- 16) *J. Am. Chem. Soc.* **2015**, *137*, 8912-8915.
- 17) *Angew. Chem. Int. Ed.* **2015**, *54*, 8772-8776.
- 18) *J. Am. Chem. Soc.* **2014**, *136*, 13174-13177.
- 19) *Angew. Chem. Int. Ed.* **2014**, *53*, 9975-9979.
- 20) *Angew. Chem. Int. Ed.* **2014**, *53*, 5418-5422.
- 21) *Angew. Chem. Int. Ed.* **2014**, *53*, 4657-4661.
- 22) *J. Am. Chem. Soc.* **2012**, *134*, 134, 9012-9019.
- 23) *J. Am. Chem. Soc.* **2009**, *131*, 12100-12102.
- 24) *Angew. Chem. Int. Ed.* **2009**, *48*, 1279-1282.

Full Publications List:

- (143) Zhang, S.; Wei, J.; Ye, X.; Perez, A.; Shi, X.* "Accessing gold π -acid reactivity under electrochemical anode oxidation (EAO) through oxidation relay" *Nat. Commun.* **2023**, *14*, 8265. ([PDF](#))
- (142) Yuan, T.; Radefeld, K.; Shan, C.; Wegner, C.; Nichols, E.; Ye, X.; Tang, Q.; Wojtas L.; Shi, X.* "Asymmetric Hydrative Aldol Reaction (HAR) via Vinyl-Gold Promoted Intermolecular Ynamide Addition to Aldehydes" *Angew. Chem. Int. Ed.* **2023**, e202305810. ([PDF](#))
- (141) Wei, J.; Xing, Y.; Ye, X.; Nguyen, B.; Wojtas L.; Hong, X.; Shi, X.* "Gold-Catalyzed Amine Cascade Addition to Diyne-Ene: Enantioselective Synthesis of 1,2-Dihydropyridines" *Angew. Chem. Int. Ed.* **2023**, e202305409. ([PDF](#))
- (140) Zhang, S.; Shi, X.* "A gold oxidation relay" *Nat. Synth.* **2023**, *2*, 313-314. ([PDF](#))
- (139) Wang, C.; Zhang, S.; Yuan, T.; Jimoh, A. A.; Abreu, M.; Shan, C.; Wojtas, L.; Xing, Y.; Hong, X.*; Shi, X.* "Triazole-modified Ru-carbene complexes: A valid olefin metathesis pre-catalyst for dynamic covalent chemistry via C=C bond formation" *Chem Catal.* **2023**, *3*, 100678. ([PDF](#))
- (138) Liu, M.; He, Y.; Wojtas, L.; Shi, X.* "Design and synthesis of covalently tethered "isoG-star" as a recyclable host for selective cesium separation" *Green Chem.* **2023**, *25*, 8494-8499. ([PDF](#))
- (137) Tang, Q.; Li, S.; Ye, X.; Teng, Y.; Zhao, K.; He, Y.; Shan, C.; Wojtas, L.; Richardson, D., Lan, Y.*; Shi, X.* "Design and Synthesis of Stable Four-Coordinated Benzotriazole-Borane with Tunable Fluorescence Emission" *Chem. Sci.* **2022**, *13*, 5982. ([PDF](#))
- (136) Wei, J.; Liu, M.; Ye, X.; Zhang, S.; Sun, E.; Shan, C.; Wojtas, L.; Shi, X.* "Facile synthesis of diverse hetero polyaromatic hydrocarbons (PAHs) via the styryl Diels-Alder reaction of conjugated diynes" *Org. Chem. Front.* **2022**, *9*, 4301-4308. ([PDF](#))
- (135) Wang, Z.; Ye, X.; Jin, M.; Tang, Q.; Fan, S.; Song, Z.*; Shi, X.* "4-Aminobenzotriazole (ABTA) as a Removable Directing Group for Palladium-Catalyzed Aerobic Oxidative sp³ C-H Olefination" *Org. Lett.* **2022**, *24*, 3107. ([PDF](#))
- (134) Ye, X.; Wang, C.; Zhang, S.; Tang, Q.; Wojtas, L.; Li, M.*; Shi, X.* "Chiral Hemilabile P,N-Ligands Assisted Gold Redox Catalysis for Enantioselective Alkene Aminoarylation" *Chem. Eur. J.* **2022**, *28*, e202201018. ([PDF](#))
- (133) He, Y.; Liu, M.; Teng, S.; Wojtas, L.; Gu, G.; Shi, X.* "Synthesis and characterization of fluorescence active G₄-quartet and direct evaluation of self-assembly impact on emission" *Chin. Chem. Lett.* **2022**, *3*, 007. ([PDF](#))
- (132) Dong, G.; Ye, X.; Wang, S.; Li, W.; Cai, R.; Du, L.; Shi, X.*; Li, M.* "Au-24 as a potential thioredoxin reductase inhibitor in hepatocellular carcinoma cells" *Pharmacol. Res.* **2022**, 106113. ([PDF](#))

- (131) Yuan, T.; Tang, Q.; Shan, C.; Ye, X.; Wang, J.; Zhao, P.; Wojtas, L.; Hadler, N.; Chen, H.; Shi, X.* "Alkyne Trifunctionalization via Divergent Gold Catalysis: Combining pi-Acid Activation, Vinyl-Gold Addition, and Redox Catalysis" *J. Am. Chem. Soc.* **2021**, *143*, 4074-4082. ([PDF](#))
- (130) Liu, M.; He, Y.; Shan, C.; Wojtas, L.; Ghiviriga, I.; Fathalla, O.; Yan, Y.; Li, X.; Shi, X.* "Anion Mediated, Tunable Isoguanosine Self-Assemblies: Decoding the Conformation Influence and Solvent Effect" *Chem. Sci.* **2021**, *12*, 7569-7574. ([PDF](#))
- (129) Zhang, S.; Ye, X.; Wojtas, L.; Hao, W.; Shi, X.* "Electrochemical gold redox catalysis for selective oxidative arylation" *Green Syn. Catal.* **2021**, *2*, 82-86. ([PDF](#))
- (128) He, Y.; Zhang, Y.; Liu, M.; Zhao, K.; Shan, C.; Wojtas, L.; Guo, H.; Ding, A.; Shi, X.* "Synthesis of microporous hydrogen-bonded supramolecular organic frameworks through guanosine self-assembly" *Cell Rep. Phys. Sci.* **2021**, *2*, 100519. ([PDF](#))
- (127) Jia, T.; Fan, S.; Li, F.; Ye, X.; Zhang, W.; Song, Z.*; Shi, X.* "Achieving Aliphatic Amine Addition to Arylalkynes via the Lewis Acid Assisted Triazole-Gold (TA-Au) Catalyst System" *Org. Lett.* **2021**, *23*, 6019-6023. ([PDF](#))
- (126) Wang, Y.; Zheng, L.; Shi, X.* and Chen, Y. "1,3-Difunctionalization of B-Alkyl Nitroalkenes via Combination of Lewis Base Catalysis and Radical Oxidation" *Org. Lett.* **2021**, *23*, 886-889. ([PDF](#))
- (125) Zhao, K.; He, Y.; Shan, C.; Wojtas, L.; Ren, J.; Yan, Y.; Shi, H.; Wang, H.; Song, Z.*; Shi, X.* "Construction of Stable Helical Metal-Organic Frameworks with Conformationally Rigid "Concave Ligand" *Chem. Eur. J.* **2021**, *27*, 10833-10838. ([PDF](#))
- (124) Li, J.; He, Y.; Zou, Y.; Yan Y.; Song, Z.; Shi, X.* "Achieving a stable COF with the combination of flat and twist large-size rigid synthons for selective gas adsorption and separation" *Chin. Chem. Lett.* **2021**, *12*, 001. ([PDF](#))
- (123) 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. ([PDF](#))
- (122) Zhang, S.; Wang, C.; Ye, X.; Shi, X.* "Intermolecular Alkene Difunctionalization via Gold Catalyzed Oxyarylation" *Angew. Chem. Int. Ed.* **2020**, *59*, 20470 – 20474. ([PDF](#))
- (121) 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. ([PDF](#))
- (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. Phys. Sci.* **2020**, *1*, 100211. ([PDF](#))
- (119) 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. ([PDF](#))
- (118) 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. ([PDF](#))
- (117) 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. ([PDF](#))
- (116) 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. ([PDF](#))
- (115) 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. ([PDF](#))

- (114) 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. ([PDF](#))
- (113) 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. ([PDF](#))
- (112) 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 α 1A-adrenergic receptor degradation" *Acta Pharm. Sin. B.* **2020**, 10, 1669-1679. ([PDF](#))
- (111) 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. ([PDF](#))
- (110) Ye, X.; Zhao, P.; Zhang, S.; Zhang, Y.; Wang, Q.; Shan, C.; Wojtas, X.; Guo, H.*; Chen, H.*; Shi, X.* "Facilitating Gold Redox Catalysis with Electrochemistry: An Efficient Chemical-Oxidant-Free Approach" *Angew. Chem. Int. Ed.* **2019**, 58, 17226-17230. ([PDF](#))
- (109) He, Y.; Zhang, Y.; Wojtas, L.; Akhmedov, N. G.; Thai, D.; Wang, H.; Li, X.; Guo, H.*; Shi, X.* "Construction of a cross-layer linked G-octamer via conformational control: a stable G-quadruplex in H-bond competitive solvents" *Chem. Sci.* **2019**, 10, 4192-4199. ([PDF](#))
- (108) Wei, C.; He, Y.; Shi, X.*; Song, Z.* "Terpyridine-Metal Complexes: Applications in catalysis and supramolecular chemistry" *Coordin. Chem. Rev.* **2019**, 385, 1-19. ([PDF](#))
- (107) 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 α 1-Adrenergic Receptors" *Anal. Chem.* **2019**, 91, 12173-12180. ([PDF](#))
- (106) 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 ER^2 modulators" *Chem. Commun.* **2019**, 55, 14570-14573. ([PDF](#))
- (105) Jimoh, A.; Hosseyni, S.; Ye, X.; Wojtas, L.; Hu, Y.*; Shi, X.* "Gold redox catalysis for cyclization/arylation of allylic oximes: synthesis of isoxazoline derivatives" *Chem. Commun.* **2019**, 55, 8150-8153. ([PDF](#))
- (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. ([PDF](#))
- (103) 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. ([PDF](#))
- (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 Dienes" *Chem.* **2018**, 4, 1983-1993. ([PDF](#))
- (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, 1972. ([PDF](#))
- (100) Wang, J.; Zhang, S.; Xu, C.; Wojtas, L.; Akhmedov, N. G.; Chen, H.*; Shi, X.* "Highly Efficient and Stereoselective Thioallylation of Alkynes: Possible Gold Redox Catalysis with No Need of a Strong Oxidant" *Angew. Chem. Int. Ed.* **2018**, 57, 6915-6920. ([PDF](#))
- (99) 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. ([PDF](#))
- (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.* **2019**, 30, 392-394. ([PDF](#))

- (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. ([PDF](#))
- (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. ([PDF](#))
- (95) Lai, Q.; Liu, Q.; He, Y.; Zhao, K.; Wei, C.; Wojtas, L.; Shi, X.*; Song, Z.* "Triazole-imidazole (TA-IM) derivatives as ultrafast fluorescent probes for selective Ag⁺ detection" *Org. Biomol. Chem.* **2018**, *16*, 7801. ([PDF](#))
- (94) 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. ([PDF](#))
- (93) 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. ([PDF](#))
- (92) 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. ([PDF](#))
- (91) 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. ([PDF](#))
- (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. ([PDF](#))
- (89) 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. ([PDF](#))
- (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. ([PDF](#))
- (87) 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. ([PDF](#))
- (86) 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. ([PDF](#))
- (85) Ye, X.; Xu, C.; Wojtas, L.; Akhmedov, N.; Chen, H.*; Shi, X.* "Silver-Free Palladium-Catalyzed sp³ and sp² C-H Alkynylation Promoted by a 1,2,3-Triazole Amine Directing Group" *Org. Lett.* **2016**, *18*, 2970-2973. ([PDF](#))
- (84) 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. ([PDF](#))
- (83) Thummanapelli, S.; Hosseyni, S.; Su, Y.; Akhmedov, N.; Shi, X.* "Ligand-Controlled Gold-Catalyzed Cycloisomerization of 1,n-Enyne Esters toward Synthesis of Dihydronaphthalene" *Chem. Commun.* **2016**, *52*, 7687-7690. ([PDF](#))
- (82) Hosseyni, S.; Ding, S.; Su, Y.; 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. ([PDF](#))
- (81) 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. ([PDF](#))

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- (79) Yang, Y.; Qin, A.; Zhao, K.; Wang, D.*; Shi, X.* "Design and Synthesis of Alanine Triazole Ligands and Application in Promotion of Hydration, Allene Synthesis and Borrowing Hydrogen Reactions" *Adv. Synth. Catal.* **2016**, 358, 1433-1439. ([PDF](#))
- (78) Yang, Y.; Shen, Y.; Wang, X.; Zhang, Y.; Wang, D.*; Shi, X.* "Triazole Acetyl Gold(III) Catalyzed Meyer-Schuster Rearrangement of Propargyl Alcohol" *Tetrahedron Lett.* **2016**, 22, 5543-5546. ([PDF](#))
- (77) Ye, X.; Zhang, Y.; He, Y.; Shi, X.* "1,2,3-Triazole amine as directing group in promoting catalytic oxidative C-H olefination under aerobic conditions" *Tetrahedron*, **2016**, 72, 2756-2762. ([PDF](#))
- (76) 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 α 1-Adrenergic Receptors Imaging in Vivo" *J. Med. Chem.* **2016**, 59, 2125-2162. ([PDF](#))
- (75) 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. ([PDF](#))
- (74) Peng, H.; Akhmedov, N. G.; Liang, Y.; Jiao, N.*; Shi, X.* "Synergistic Gold and Iron Dual Catalysis: Preferred Radical Addition toward Vinyl-Gold Intermediate over Alkene" *J. Am. Chem. Soc.* **2015**, 137, 8912-8915. ([PDF](#))
- (73) Cai, R.; Lu, M.; Aguilera, E. Y.; Xi, Y.; Akhmedov, N. G.; Petersen, J. L.; Chen, H.*; Shi, X.* "Ligand-Assisted Gold-Catalyzed Cross-Coupling with Aryldiazonium Salts: A Case of External Oxidant Free Redox Gold Catalysis" *Angew. Chem. Int. Ed.* **2015**, 54, 8772-8776. ([PDF](#))
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- (71) Gao, W.; Cai, R.; Pham, T.; Forrest, K. A.; Hogan, A.; Nugen, P.; Williams, K.; Wojtas, L.; Luebke, R.; Weseliński, L. J.; Zaworotko, M. J.; Space, B.; Chen, Y.; Eddaoudi, M.*; Shi, X.*; Ma, S.* "Remote Stabilization of Copper Paddlewheel Based Molecular Building Blocks in Metal Organic Frameworks" *Chem. Mater.* **2015**, 27, 2144-2151. ([PDF](#))
- (70) Hosseini, S.; Su, Y.; Shi, X.* "Gold Catalyzed Synthesis of Substituted Furan by Intermolecular Cascade Reaction of Propargyl Alcohol and Alkyne" *Org. Lett.* **2015**, 17, 6010-6013. ([PDF](#))
- (69) Su, Y.; Petersen, J. L.; Gregg, T. L.; Shi, X.* "Ambient Benzotriazole Ring Opening through Intermolecular Radical Addition to Vinyltriazole" *Org. Lett.* **2015**, 17, 1208-1211. ([PDF](#))
- (68) Motika, S. E.; Wang, Q.; Ye, X.; Shi, X.* "Ambient Synthesis of Dienals via Triazole-Au and Amine Catalysis Relay" *Org. Lett.* **2015**, 17, 290-293. ([PDF](#))
- (67) Ye, X.; Petersen, J. L.; Shi, X.* "Nickel-Catalyzed Directed Sulfenylation of sp² and sp³ C-H bonds" *Chem. Commun.* **2015**, 51, 7863-7866. ([PDF](#))
- (66) Cai, R.; Yan, W.; Bologna, M. G.; de Silva, K.; Finklea, H. O.; Petersen, J. L.; Shi, X.* "Synthesis and Characterization of N-2-Aryl-1,2,3-Triazole Based Iridium Complexes as Photocatalysts with Tuneable Photoredox Potential" *Org. Chem. Front.* **2015**, 2, 141-144. ([PDF](#))
- (65) Shi, Y.; Ye, X.; Gu, Q.; Shi, X.*; Song, Z.* "Facile Synthesis and Stereo-Resolution of Chiral 1,2,3-Triazole" *Org. Biomol. Chem.* **2015**, 13, 5407-5411. ([PDF](#))

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