

## **Weiping Tang**

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### **Education and Training**

1992-1997, Peking University, B.S., Chemistry

1997-1999, New York University, M.S., Chemistry

1999-2005, Stanford University, Ph.D., Organic Chemistry

2005-2007, Harvard University and Broad Institute of Harvard and MIT, Postdoc, Chemical Biology and Medicinal Chemistry

### **Professional Experience**

2007-2013, Assistant Professor, School of Pharmacy, University of Wisconsin-Madison

2013-2017, Associate Professor, School of Pharmacy and Department of Chemistry, University of Wisconsin-Madison

2015-present, Co-Director of Medicinal Chemistry Center, School of Pharmacy, University of Wisconsin-Madison

2016-present, Faculty leader, UW Carbone Cancer Center Drug Development Core

2017-present, Professor, School of Pharmacy and Department of Chemistry, University of Wisconsin-Madison

Other appointments at the University of Wisconsin-Madison

2007-present Trainer, Chemistry-Biology Interface (CBI) Training Program

2008-present Faculty mentor, Undergraduate Research Scholars Program (URS)

2015-present Trainer, Pharmacology and Drug Discovery Training Program

2015-present Member, UW Carbone Cancer Center

### **Awards and Honors**

Boehringer Ingelheim Pharmaceuticals, Inc. Predoctoral Fellowship (2002)

Amgen Predoctoral Fellowship (2003)

Howard Hughes Medical Institute Postdoctoral Fellowship (2005-2007)

Thieme Synlett/Synthesis Journal Award (2010)

Amgen Young Investigator Award (2011)

Eli Lilly Outstanding Continuous Contribution to Compound Screening Award (2014)

### **Professional Society Memberships**

American Chemical Society, Division of Organic Chemistry, Division of Medicinal Chemistry, and Division of Carbohydrate Chemistry

## Publications

Independent work at the **University of Wisconsin – Madison** since 2007 (\* Corresponding author):

1. "Base-Catalyzed Intramolecular Hydroamination of Conjugated Enynes."  
Zhang, W.; Werness, J. B.; Tang, W.\* *Org. Lett.* **2008**, *10*, 2023-2026.
2. "Synthesis of Cyclobutenes by Highly Selective Transition-Metal-Catalyzed Ring Expansion of Cyclopropanes."  
Xu, H.-D.; Zhang, W.; Shu, D.; Werness, J. B.; Tang, W.\* *Angew. Chem. Int. Ed.* **2008**, *47*, 8933-8936. (**Highlighted in Synfacts**)
3. "N,N'-(11S,12S)-(9,10-dihydro-9,10-ethanoanthracene-11,12-diyl)-bis-[2-(diphenylphosphino)-Benzamide]."  
Tang, W.\* in *The Encyclopedia of Reagents for Organic Synthesis* [EROS], Fuchs, P. L., Ed. John Wiley and Sons, **2008**.
4. "Intramolecular Hydroamination of Conjugated Enynes."  
Zhang, W.; Werness, J. B.; Tang, W.\* *Tetrahedron*, **2009**, *65*, 3090-3095. (*Invited contribution for Justin Du Bois's Tetrahedron Young Investigator Award.*)
5. "DABCO-Catalyzed 1,4-Bromolactonization of Conjugated Enynes: Highly Stereoselective Formation of a Stereogenic Center and an Axially Chiral Allene."  
Zhang, W.; Xu, H.-D.; Xu, H.; Tang, W.\* *J. Am. Chem. Soc.* **2009**, *131*, 3832-3833. (**Highlighted in Synfacts**)
6. "Thermodynamic Control of the Electrocyclic Ring Opening of Cyclobutenes: C=X Substituents at C-3 Mask the Kinetic Torquoselectivity."  
Um, J. M.; Xu, H.-D.; Houk, K. N.\*; Tang, W.\* *J. Am. Chem. Soc.* **2009**, *131*, 6664-6665.
7. "Enantioselective Bromolactonization of Conjugated (Z)-Enynes."  
Zhang, W.; Zheng, S.; Liu, N.; Werness, J. B.; Guzei, I. A.; Tang, W.\* *J. Am. Chem. Soc.* **2010**, *132*, 3664-3665. (**Highlighted in Angew. Chem. Int. Ed.** **2010**, *49*, 8306-8309.)
8. "Synthesis of Bromoallenyl Pyrrolidines via 1,4-Addition to 1,3-Enynes."  
Werness, J. B.; Tang, W.\* *Sci. China Chem.* **2011**, *54*, 56-60. (*Invited contribution for the 6th Sino-US Chemistry Professor Conference at Hangzhou, China.*)
9. "Synthesis of Highly Functionalized Cyclohexenone Rings: Rhodium-Catalyzed 1,3-Acyloxy Migration and Subsequent [5+1] Cycloaddition."  
Shu, D.; Li, X.; Zhang, M.; Robichaux, P. J.; Tang, W.\* *Angew. Chem. Int. Ed.* **2011**, *50*, 1346-1349.
10. "Intramolecular 1,4-Addition of Nitrogen Nucleophiles and Halogen Electrophiles to Conjugated Enynes."  
Liu, N.; Werness, J. B.; Guzei, I. A.; Tang, W.\* *Tetrahedron* **2011**, *67*, 4385-4390. (*Invited contribution for F. Dean Toste's Tetrahedron Young Investigator Award.*)
11. "Interception of a Rautenstrauch Intermediate by Alkynes for [5+2] Cycloaddition: Rhodium-Catalyzed Cycloisomerization of 3-Acyloxy-4-ene-1,9-diynes to Bicyclo[5.3.0]decatrienes."  
Shu, X.-Z.; Huang, S.; Shu, D.; Guzei, I. A.; Tang, W.\* *Angew. Chem. Int. Ed.* **2011**, *50*, 8153-8156. (**Selected as "hot paper" by the Editor**)
12. "Stereoselective Total Synthesis of (-)-Kumausallene."  
Werness, J. B.; Tang, W.\* *Org. Lett.* **2011**, *13*, 3664-3666. (**Highlighted in Synfacts**)
13. "Rhodium-catalyzed Ring Expansion of Cyclopropanes to Seven-membered Rings by 1,5 C-C Bond Migration."  
Li, X.; Zhang, M.; Shu, D.; Robichaux, P. J.; Huang, S.; Tang, W.\* *Angew. Chem. Int. Ed.* **2011**, *50*, 10421-10424.

14. "Effect of Halogenation Reagents on Halocyclization and Overman Rearrangement of Allylic Trichloroacetimidates."  
Liu, N.; Schienebeck, C. M.; Collier, M. D.; Tang, W.\* *Tetrahedron Lett.* **2011**, *52*, 6217-6219.
15. "Rhodium-catalyzed 1,3-Acyloxy Migration and Subsequent Intramolecular [4+2] Cycloaddition of Vinylallene and Unactivated Alkyne."  
Huang, S.; Li, X.; Lin, C. L.; Guzei, I. A.; Tang, W.\* *Chem. Commun.* **2012**, *48*, 2204-2206.
16. "Rhodium-Catalyzed Carbonylation of 3-Acyloxy-1,4-enynes for the Synthesis of Cyclopentenones."  
Li, X.; Huang, S.; Schienebeck, C. M.; Shu, D.; Tang, W.\* *Org. Lett.* **2012**, *14*, 1584-1587.
17. "Rhodium-catalyzed Intra- and Intermolecular [5+2] Cycloaddition of 3-Acyloxy-1,4-enyne and Alkyne with Concomitant 1,2-Acyloxy Migration."  
Shu, X.-Z.; Li, X.; Shu, D.; Huang, S.; Schienebeck, C. M.; Zhou, X.; Robichaux, P. J.; Tang, W.\* *J. Am. Chem. Soc.* **2012**, *134*, 5211-5221.
18. "Catalytic Enantioselective Halolactonization of Enynes and Alkenes."  
Zhang, W.; Liu, N.; Schienebeck, C. M.; Decloux, K.; Zheng, S. Werness, J. B.; Tang, W.\* *Chem. Eur. J.* **2012**, *18*, 7296-7305. (**Highlighted in Synfacts**)
19. "Stereoselective Preparation of Cyclobutanes with Four Different Substituents: Total Synthesis and Structural Revision of Pipericyclobutanamide A and Piperchabamide G."  
Liu, R.; Zhang, M.; Wyche, T. P.; Winston-McPherson, G. N.; Bugni, T. S.; Tang, W.\* *Angew. Chem. Ed. Int.* **2012**, *51*, 7503-7506. (**Highlighted in Nat. Chem. Biol.** **2012**, *8*, 678.)
20. "Synthesis of Functionalized Cyclohexenone Core of Welwitindolinones via Rhodium-Catalyzed [5+1] Cycloaddition."  
Zhang, M.; Tang, W.\* *Org. Lett.* **2012**, *14*, 3756-3759.
21. "Rhodium-Catalyzed Carbonylation of Cyclopropyl Substituted Propargyl Esters: A Tandem 1,3-Acyloxy Migration [5+1] Cycloaddition."  
Shu, D.; Li, X.; Zhang, M.; Robichaux, P. J.; Guzei, I. A.; Tang, W.\* *J. Org. Chem.* **2012**, *77*, 6463-6472.
22. "Rhodium-Catalyzed Acyloxy Migration of Propargylic Esters in Cycloadditions, Inspiration from Recent "Gold Rush"."  
Shu, X.-Z.; Shu, D.; Schienebeck, C. M.; Tang, W.\* *Chem. Soc. Rev.* **2012**, *41*, 7698-7711.
23. "Rhodium-Catalyzed Chemo- and Regioselective Cross-Dimerization of Two Terminal Alkynes."  
Xu, H.-D.\*; Zhang, R.-W.; Li, X., Huang, S., Tang, W.; Hu, W.-H. *Org. Lett.* **2013**, *14*, 840-843.
24. "Rhodium- and Platinum-catalyzed [4+3] Cycloaddition with Concomitant Indole Annulation: Synthesis of Cyclohepta[b]indoles."  
Shu, D.; Song, W.; Li, X.; Tang, W.\* *Angew. Chem. Int. Ed.* **2013**, *52*, 3237-3240.
25. "Effect of Ester on Rhodium-Catalyzed Intermolecular [5 + 2] Cycloaddition of 3-Acyloxy-1,4-enynes and Alkynes."  
Schienebeck, C. M.; Robichaux, P. J.; Li, X.; Chen, L.\*; Tang, W.\* *Chem. Commun.* **2013**, *49*, 2616-2618.
26. "Ring Expansion of Alkynyl Cyclopropanes to Highly Substituted Cyclobutenes via a *N*-Sulfonyl-1,2,3-Triazole Intermediate."  
Liu, R.; Zhang, M.; Winston-McPherson, G. N.; Tang, W.\* *Chem. Commun.* **2013**, *49*, 4376-4378. (*Invited contribution for ChemComm "Emerging Investigators 2013" themed issue.*)

27. "Enantioselective Intermolecular Bromoesterification of Allylic Sulfonamides."  
Zhang, W.; Liu, N.; Schienebeck, C. M.; Zhou, X.; Izhar, I. I.; Guzei, I. A.; Tang, W.\* *Chem. Sci.* **2013**, *4*, 2652-2656.
28. "Stereoselective Addition of Halogen to Conjugated Enynes and Its Application in the Total Synthesis of (-)-Kumausallene."  
Werness, J. B.; Zhang, W.; Tang, W.\* In *Strategies and Tactics in Organic Synthesis*, Harmata, M., Ed. Elsevier Science, Pergamon Press: Oxford, UK, **2013**, Vol. 9. Chapter 10, 275-291.
29. "Generation of Rhodium(I) Carbenes from Ynamides and Their Reactions with Alkynes and Alkenes."  
Liu, R.; Winston-McPherson, G. N.; Yang, Z.-Y.; Zhou, X.; Song, W.; Guzei, I. A.; Xu, X.\*; Tang, W.\* *J. Am. Chem. Soc.* **2013**, *135*, 8201-8204.
30. "Rh-Catalyzed (5+2) Cycloadditions of 3-Acyloxy-1,4-enynes and Alkynes: Computational Study of Mechanism, Reactivity, and Regioselectivity."  
Xu, X.\*; Liu, P.; Shu, X.-Z.; Tang, W.\*; Houk, K. N.\* *J. Am. Chem. Soc.* **2013**, *135*, 9271-9274.
31. "Platinum-Catalyzed Tandem Indole Annulation/Arylation for the Synthesis of Diindolylmethanes and Indolo[3,2-*b*]carbazoles"  
Shu, D.; Winston-McPherson, G. N.; Song, W.; Tang, W.\* *Org. Lett.* **2013**, *15*, 4162-4165.
32. "Stereoselective Total Synthesis of Hainanolidol and Harringtonolide via Oxidopyrylium-Based [5+2] Cycloaddition."  
Zhang, M.; Liu, N.; Tang, W.\* *J. Am. Chem. Soc.*, **2013**, *135*, 12434-12438. (**Highlighted in Synfacts**)
33. "Stereoselective Halocyclization of Alkenes with *N*-Acyl Hemiaminal Nucleophiles."  
Liu, N.; Wang, H.-Y.; Zhang, W.; Jia, Z.-H.; Guzei, I. A.; Xu, H.-D.\*; Tang, W.\* *Chirality* **2013**, *25*, 805-809. (*Invited contribution*.)
34. "Transfer of Chirality in the Rhodium-Catalyzed Intramolecular [5+2] Cycloaddition of 3-Acyloxy-1,4-Enynes (ACEs) and Alkynes: Synthesis of Enantioenriched Bicyclo[5.3.0]decaenes"  
Shu, X.-Z.; Schienebeck, C. M.; Song, W.; Guzei, I. A.; Tang, W.\* *Angew. Chem. Int. Ed.* **2013**, *52*, 13601-13605. (**Highlighted in Synfacts**)
35. "Rhodium-Catalyzed Tandem Annulation and (5+1) Cycloaddition: 3-Hydroxy-1,4-Enyne as the 5-Carbon Component"  
Li, X.; Song, W.; Tang, W.\* *J. Am. Chem. Soc.* **2013**, *135*, 16797-16800.
36. "Tethered Spectroscopic Probes Estimate Dynamic Distances with Subnanometer Resolution in Voltage-Dependent Potassium Channels"  
Jarecki, B. W.; Zheng, S.; Zhang, L.; Li, X.; Zhou, X.; Cui, Q.; Tang, W.; Chanda, B.\* *Biophysical J.* **2013**, *105*, 2724-2732. (**Highlighted in Nat. Chem. Biol.** **2014**, *10*, 169.)
37. "Design, Synthesis and Preliminary Bioactivity Studies of 1,2-Dihydrobenzo[*d*]isothiazol-3-one-1,1-dioxide Hydroxamic Acid Derivatives as Novel Histone Deacetylase Inhibitors"  
Han, L.; Wang, L.; Hou, X.; Fu, H.; Song, W.; Tang, W.; Fang, H.\* *Bioorg. Med. Chem.* **2014**, *22*, 1529-2538.
38. "3-Acyloxy-1,4-enyne: a New Five-Carbon Synthons for Rhodium-Catalyzed [5 + 2] Cycloadditions"  
Schienebeck, C. M.; Li, X.; Shu, X.-Z.; Tang, W.\* *Pure Appl. Chem.* **2014**, *86*, 409-417. (*Invited review*)
39. "Intermolecular bromoesterification of conjugated enynes: an efficient synthesis of bromoallenes."  
Wang, H.-Y.; Zhang, W.; Schienebeck, C. M.; Bennett, S. R.; Tang, W.\* *Org. Chem. Front.* **2014**, *1*, 386-390. (*Invited contribution*)
40. "Cinchona Alkaloids as Organocatalysts in Enantioselective Halofunctionalization of Alkenes and Alkynes."  
Zheng, S.; Schienebeck, C. M.; Zhang, W.; Wang, H.-Y.; Tang, W.\* *Asian J. Org. Chem.* **2014**, *3*, 366-376. (*Invited review*)

41. "Synthesis and Biological Evaluation of 2,3'-Diindolylmethanes as Agonists of Aryl Hydrocarbon Receptor."  
Winston-McPherson, G. N.; Shu, D.; Tang, W.\* *Bioorg. Med. Chem. Lett.* **2014**, *24*, 4023-4025.
42. "Synthesis of naturally occurring tropones and tropolones."  
Liu, N.; Song, W.; Schienebeck, C. M.; Zhang, M.\*; Tang, W.\* *Tetrahedron*. **2014**, *70*, 9281-9305. (*Invited review*)
43. "Copper-catalyzed tandem annulation/arylation for the synthesis of diindolylmethanes from propargylic alcohols."  
Li, H.; Li, X.; Wang, H.-Y.; Winston-McPherson, G. N.; Geng, H.-M. J.; Guzei, I. A.; Tang, W.\* *Chem. Commun.* **2014**, *50*, 12293-12296.
44. "Improved antiproliferative activity of 1,3,4-thiadiazole-containing histone deacetylase (HDAC) inhibitors by introduction of the heteroaromatic surface recognition motif."  
Guan, P.; Wang, L.; Hou, X.; Wan, Y.; Xu, W.; Tang, W.; Fang, H.\* *Bioorg. Med. Chem.* **2014**, *22*, 5766-5775.
45. "Design, synthesis, and preliminary bioactivity studies of substituted purine hydroxamic acid derivatives as novel histone deacetylase (HDAC) inhibitors."  
Wang, J.; Sun, F.; Han, L.; Hou, X.; Pan, X.; Liu, R.; Tang, W.; Fang, H.\* *MedChemComm.* **2014**, *5*, 1887-1891.
46. "Gold versus Rhodium: Divergent Reactivity Enabled by the Catalyst."  
Winston-McPherson, G. N.; Tang, W.\* *ChemCatChem* **2015**, *7*, 574-576.
47. "Tumor Suppressor Role of Notch3 in Medullary Thyroid Carcinoma Revealed by Genetic and Pharmacological Induction."  
Jaskula-Sztul, R.; Eide, J.; Tesfazghi, S.; Dammalapati, A.; Harrison, A. D.; Yu, X.-M.; Scheinebeck, C.; Winston-McPherson, G.; Kupcho, K. R.; Robers, M. B.; Hundal, A. K.; Tang, W.\*; Chen, H.\* *Mol. Cancer Therap.* **2015**, *14*, 499-512.
48. "Rhodium-Catalyzed Intermolecular [5+1] and [5+2] Cycloadditions Using 1,4-Enynes with an Electron-Donating Ester on the 3-Position."  
Schienebeck, C. M.; Song, W.; Smits, A. M.; Tang, W.\* *Synthesis* **2015**, *47*, 1076-1084. (*invited feature article*).
49. "Synthesis of Substituted Tropones by Sequential Rh-Catalyzed [5+2] Cycloaddition and Elimination."  
Song, W.; Xi, B.-m.; Yang, K.; Tang, W.\* *Tetrahedron* **2015**, *71*, 5979-5984. (*Invited contribution for Prof. Barry Trost's Tetrahedron Award.*)
50. "Novel Analogs Targeting Histone Deacetylase Suppress Aggressive Thyroid Cancer Cell Growth and Induce Re-differentiation."  
Jang, S.; Yu, X. M.; Odorico, S.; Clark, M.; Jaskula-Sztul, R.; Schienebeck, C. M.; Kupcho, K. R.; Harrison, A. D.; Winston-McPherson, G. N.; Tang, W.; Chen, H.\* *Cancer Gene Therap.* **2015**, *22*, 410-416.
51. "Iridium-Catalysed Dynamic Kinetic Isomerization: Expedient Synthesis of Carbohydrates from Achmatowicz Rearrangement Products."  
Wang, H.-y.; Yang, K.; Bennett, S. R.; Guo, S.-r.\*; Tang, W.\* *Angew. Chem. Int. Ed.* **2015**, *54*, 8756-8759.
52. "Design, synthesis and preliminary bioactivity evaluations of substituted quinoline hydroxamic acid derivatives as novel histone deacetylase (HDAC) inhibitors."  
Wang, L.; Hou, X.; Fu, H.; Pan, X.; Xu, W.; Tang, W.; Fang, H.\* *Bioorg. Med. Chem.* **2015**, *23*, 4364-4374.
53. "Divergent Reactivity of Rhodium(I) Carbenes Derived from Indole Annulations."  
Li, X.; Li, H.; Song, W.; Tseng, P.-S.; Liu, L.-Y.\*; Guzei, I. A.; Tang, W.\* *Angew. Chem. Int. Ed.* **2015**, *54*, 12905-12908.
54. "Rhodium-Catalyzed Stereoselective Intramolecular [5 + 2] Cycloaddition of 3-Acyloxy 1,4-Enyne and Alkene."  
Shu, X.-Z.; Schienebeck, C. M.; Li, X.; Zhou, X.; Song, W.; Chen, L.; Guzei, I. A.; Tang, W.\* *Org. Lett.* **2015**, *17*, 5128-5131.

55. "Divergent De Novo Synthesis of All Eight Stereoisomers of 2,3,6-Trideoxyhexopyranosides and Their Oligomers."  
Song, W.; Zhao, Y.;\* Lynch, J. C.; Kim, H.; Tang, W.\* *Chem Commun.* **2015**, 51, 17475-17478.
56. "Chiral Catalyst-Directed Dynamic Kinetic Diastereoselective Acylation of Lactols for De Novo Synthesis of Carbohydrate."  
Wang, H.-Y.; Yang, K.; Yin, D.; Liu, C.; Glazier, D. A.; Tang, W.\* *Org. Lett.* **2015**, 17, 5272-5275.
57. "Mechanism and reactivity of rhodium-catalyzed intermolecular [5+1] cycloaddition of 3-acyloxy-1,4-enyne (ACE) and CO: A computational study."  
Ke, X.-N.; Schienebeck, C. M.; Zhou, C.-C.; Xu, X.-F.;\* Tang, W.\* *Chin. Chem. Lett.* **2015**, 26, 730-734.
58. "Synthesis of Carbazoles and Carbazole-Containing Heterocycles via Rhodium-Catalyzed Tandem Carbonylative Benzannulations."  
Song, W.; Li, X.; Yang, K.; Zhao, X.-l.; Glazier, D. A.; Xi, B.-m.;\* Tang, W.\* *J. Org. Chem.* **2016**, 81, 2930-2942.
59. "Design and Synthesis of a New Generation of Substituted Purine Hydroxamate Analogs as Histone Deacetylase Inhibitors."  
Liu, R.; Wang, J.; Tang, W.; Fang, H.\* *Bioorg. Med. Chem.* **2016**, 24, 1446-1454.
60. "Rhodium-Catalyzed [5+2] Cycloaddition of Inverted 3-Acyloxy-1,4-enyne and Alkyne: Experimental and Theoretical Studies."  
Li, X.; Song, W.; Zhao, X.-l.; Ke, X.; Xu, X.;\* Liu, P.; Houk, K. N.; Tang, W.\* *Chem. Eur. J.* **2016**, 22, 7079-7083.
61. "Rhodium-catalyzed [5+2] Cycloaddition of 3-Acyloxy-1,4-enyne and Alkene or Allene."  
Song, W.; Lynch, J. C.; Shu, X.-z.; Tang, W.\* *Adv. Syn. Catal.* **2016**, 358, 2007-2011.
62. "Rhodium(I)-Catalyzed Benzannulation of Heteroaryl Propargylic Esters: Synthesis of Indoles and Related Heterocycles."  
Li, X.; Xie, H.; Fu, X.; Liu, J.-t.; Wang, H.-y.; Bao-Min Xi,\* Liu, P.;\* Xu, X.;\* Tang, W.\* *Chem. Eur. J.* **2016**, 22, 10410-10414.
63. "Total Synthesis of Diptoinonesin G and Its Analogues as Selective Modulators of Estrogen Receptors"  
Liu, J.-t.; Do, T. J.; Simmons, C. J.; Lynch, J. C.; Gu, W.; Ma, Z.-X.; Xu, W.; and Tang, W.\* *Org. Biomol. Chem.* **2016**, 14, 8927-8930.
64. "Author Profile for the publication of the 10<sup>th</sup> paper in *Angewandte Chemie International Edition* during the last 10 ten years."  
Tang, W. *Angew. Chem. Int. Ed.* **2016**, 55, 12412.
65. "Discovery of selective small-molecule HDAC6 inhibitor for overcoming proteasome inhibitor resistance in multiple myeloma."  
Hideshima, T.; Qi, J.; Paranal, R. M.; Tang, W.; Greenberg, E.; West, N.; Colling, M. E.; Estiu, G.; Mazitschek, R.; Perry, J. A.; Ohguchi, H.; Cottini, F.; Mimura, N.; Görgün, G.; Tai, Y.-T.; Richardson, P. G.; Carrasco, R. D.; Wiest, O.; Schreiber, S. L.; Anderson, K. C.;\* Bradner, J. E.\* *Proc. Natl. Acad. Sci. U.S.A.* **2016**, 113, 13162-13167.
66. "Synthesis of Highly Substituted Benzofuran-containing Natural Products via Rh-catalyzed Carbonylative Benzannulation"  
Liu, J.-t.; Simmons, C. J.; Xie, H.; Yang, F.; Zhao, X.-l.;\* Tang, Y.;\* and Tang, W.\* *Adv. Syn. Catal.* **2017**, 359, 693-697. (**Highlighted in Syntacts**)
67. "Chiral Catalyst-Directed Dynamic Kinetic Diastereoselective Acylation of Anomeric Hydroxyl Groups and a Controlled Reduction of the Glycosyl Ester Products."  
Wang, H.-Y.; Simmons, C. J.; Zhang, Y.; Smits, A. M.; Balzer, P. G.; Wang, S.;\* and Tang, W.\* *Org. Lett.* **2017**, 19, 508-511.
68. "Neuroendocrine Tumor-Targeted Upconversion Nanoparticle-Based Micelles for Simultaneous NIR-Controlled Combination Chemotherapy and Photodynamic Therapy, and Fluorescence Imaging"

- Chen, G.; Jaskula-Sztul, R.; Esquibel, C. R.; Lou, I.; Zheng, Q.; Dammalapati, A.; Harrison, A.; Eliceiri, K. W.; Tang, W.; Chen, H.;\* Gong, S.\* *Adv. Funct. Mater.* **2017**, *27*, 1604671.
69. "Catalytic Site-Selective Acylation of Carbohydrates Directed by Cation- $\pi$  Interaction."  
Xiao, G.; Cintron-Rosado, G. A.; Glazier, D. A.; Xi, B.-m.; Liu, C.; Liu, P.\* and Tang, W.\* *J. Am. Chem. Soc.* **2017**, *139*, 4346-4349. (**Highlighted in JACS Spotlights**)
70. "De novo Synthesis of Mono- and Oligosaccharides via Dihydropyran Intermediates."  
Song, W.; Wang, S.\* and Tang, W.\* *Chem. Asian J.* **2017**, *12*, 1027-1042.
71. "Iridium-catalyzed highly efficient chemoselective reduction of aldehydes in water using formic acid as the hydrogen source."  
Yang, Z.; Zhu, Z.; Luo, R.; Qiu, X.; Liu, J.-L.; Yang, J.-K.; and Tang W.\* *Green Chem.* **2017**, *19*, 3296-3301.
72. "Transition metal mediated carbonylative benzannulations."  
Song, W.; Blaszczyk, S. A.; Liu, J.; Wang, S.;\* and Tang W.\* *Org. Biomol. Chem.* **2017**, *15*, 7490-7504.