Xiaopeng Li, Ph.D.

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Education and Training

02/2009 – 07/2012	Postdoctoral Fellow, Department of Chemistry, University of Akron, OH Advisor: Professor Chrys Wesdemiotis
08/2004 – 12/2008	Ph. D., Department of Chemistry, Cleveland State University, OH Advisor: Professor Baochuan Guo
09/1999 – 06/2004	B. S., Department of Chemistry, Zhengzhou University, China

Appointments

08/2016 – present	Assistant Professor, Department of Chemistry, University of South Florida, FL
09/2012 – 07/2016	Assistant Professor, Department of Chemistry and Biochemistry & Materials Science, Engineering, and Commercialization Program, Texas State University, TX

Awards & Honors

2017 Fellow of the Royal Society of Chemistry (FRSC)
2017 CAPA Distinguished Junior Faculty Award
2016 Texas State University Presidential Distinction Award for Excellence in Scholarly/Creative Activities
2015 Cottrell College Single Investigator Award, Research Corporation for Science Advancement

Grants & Funding

1. 1R01GM128037-01, NIH, "Self-Assembly of 2D Metallo-Supramolecules as a Novel Class of Antimicrobial Biomaterials via Forming Transmembrane Channels", 05/2018-04/2023, Xiaopeng Li(PI)

2. CHE-1506722, NSF, "Design and Self-Assembly of Giant Metallo-Supramolecules Based on Density of Coordination Sites", 06/2015 – 05/2018, Xiaopeng Li (PI)

3. 23224, Research Corporation for Science Advancement, Cottrell College Single Investigator Award, "Self-Assembly of Supramolecular Fractals with Self-Similarity", 07/2015 – 06/2017, Xiaopeng Li (PI)

4. 55013-UNI3, ACS Petroleum Research Fund, "Self-Assembly of Three-Dimensional Metallo-Supramolecules Using Adamantane-Based Terpyridine Ligands", 06/2015 – 05/2017, Xiaopeng Li (PI)

5. DMR-1205670, NSF Partnerships for Research and Education in Materials (PREM), "Self-Assembly of Concentric Hexagons Using Multitopic Terpyridine Ligands", 12/2014–05/2016, one of 9 investigators participating in award, Xiaopeng Li (Co-PI).

Complete List of Publications (101 publications, 3200+ citation, H-index 35)

Independent research since 2012

1. Gu, Y.; Alt, E. A.; Wang, H.; **Li, X.;** Willard, A. P.; Johnson, J. A. Photoswitching polymer network topology via cooperative self-assembly. *Nature*, **2018**, accepted.

2. Zhou, Z.; Liu, J.; Rees, T. W.; Wang, H.; **Li, X.;** Chao, H.; Stang, P. J. A heterometallic Ru-Pt metallacycle for two-photon photodynamic therapy. *Proc. Natl. Acad. Sci. U.S.A.*, **2018**, DOI: 10.1073/pnas.1802012115

3. Wang, H.; Qian, X.; Wang, K.; Su, M.; Haoyang, W.-W.; Jiang, X.; Brzozowski, R.; Wang, M.; Gao, X.; Li, Y.; Xu, B.; Eswara, P.; Hao, X.-Q.; Gong, W.; Hou, J.-L.; Cai, J.; **Li, X.** Supramolecular Kandinsky circles with

high antibacterial activity. *Nat. Commun.*, **2018**, 9, 1815

4. Yin, G.-Q.; Wang, H.; Wang, X.-Q.; Song, B.; Chen, L.-J.; Wang, L.; Hao, X.-Q.; Yang, H.-B.; **Li, X.** Self-assembly of emissive supramolecular rosettes with increasing complexity using multitopic terpyridine ligands. *Nat. Commun.*, **2018**, *9*, 567

5. Cao, L.; Wang, P.; Miao, X.; Dong, Y.; Wang, H.; Duan, H.; Yu, Y.; **Li, X.**; Stang, P. J. Diamondoid supramolecular coordination frameworks from discrete adamantanoid platinum (II) cages. *J. Am. Chem. Soc.*, **2018**, DOI:10.1021/jacs.8b03856

6. Chen, L.-J.; Chen, S.; Qin, Y.; Xu, L.; Yin, G.-Q.; Zhu, J.-L.; Zhu, F.-F.; Zheng, W.; **Li, X.**; Yang, H.-B. Construction of porphyrin-containing metallacycle with improved stability and activity within mesoporous carbon. *J. Am. Chem. Soc.*, **2018**, 140, 5049–5052

7. Sun, Y.; Li, S.; Zhou, Z.; Saha, M. L.; Datta, S.; Zhang, M.; Yan, X.; Tian, D.; Wang, H.; Wang, L.; **Li, X.**; Liu, M.; Li, H.; Stang, P. J. Alanine-based chiral metallogels via supramolecular coordination complex platforms: metallogelation induced chirality transfer, *J. Am. Chem. Soc.*, **2018**, *140*, 3257–3263

8. Zheng, X.; Zhang, Y.; Wu, G.; Liu, J.-R.; Cao, N.; Wang, L.; Wang, Y.; Li, X.; Hong, X.; Yang, C.; Li, H. Temperature-dependent self-assembly of a purely organic cage in water. *Chem. Commun.*, **2018**, *54*, 3138-3141

9. Wang, Y.-X.; Zhou, Q.-F.; Chen, L.-J.; Xu, L.; Wang, C.-H.; **Li, X.**; Yang, H.-B. Facile construction of organometallic rotaxane-terminated dendrimers using neutral platinum-acetylides as main scaffold. *Chem. Commun.*, **2018**, *54*, 2224-2227

10. Zhang, Y.; Zhou, Q.-F.; Huo, G.-F.; Yin, G.-Q.; Zhao, X.-L.; Jiang, B.; Tan, H.; **Li, X.**; Yang, H.-B. Hierarchical self-assembly of an alkynylplatinum(ll) bzimpy-functionalized metallacage via Pt···Pt and π–π interactions. *Inorg. Chem.*, **2018**, *57*, 3516–3520

11. Wang, L.; Zhang, Z.; Jiang, X.; Irvin, J. A.; Liu, C.; Wang, M.; **Li, X.** Self-assembly of tetrameric and hexameric terpyridine-based macrocycles using Cd(II), Zn(II), and Fe(II). *Inorg. Chem.*, **2018**, *57*,3548–3558

12. Zhang, C.-W.; Ou, B.; Jiang, S.-T.; Yin, G.-Q.; Chen, L.-J.; Xu, L.; **Li, X.**; Hai-Bo Yang. Cross-linked AIE supramolecular polymer gels with multiple stimuli-responsive behaviours constructed by hierarchical self-assembly. *Polym. Chem.*, **2018**, *9*, 2021-2030

13. Yue, Z.; Wang, H.; Li,Y.; Qin, Y., Xu, L.; Bowers, D. J.; Gangoda, M.; **Li, X.**; Yang, H.-B.; Zheng, Y.-R. Coordination-driven self-assembly of a Pt(IV) prodrug-conjugated supramolecular hexagon. *Chem. Commun.*, **2018**, *54*, 731-734

14. Qiu, J.; Song, B.; **Li, X.**; Cozzolino, A. F. Solution and gas phase evidence of anion binding through the secondary bonding interactions of a bidentate bis-antimony(III) anion receptor. *Phys. Chem. Chem. Phys.*, **2018**, *20*, 46-50

15. Rastogi, S. K.; Zhao, Z.; Barrett, S. L.; Shelton, S. D.; Zafferani, M.; Anderson, H. E.; Blumenthal, M. O.; Jones, L. R.; Wang, L.; **Li, X.**; Streu, C. N.; Du, L.; Brittain, W. Photoresponsive azo-combretastatin A-4 analogues. *J. Eur. J. Med. Chem.*, **2018**, *143*, 1-7

16. Zhang, D.; Li, D.; **Li, X.**; Jin, W. Post-assembly polymerization of discrete organoplatinum(II) metallacycles via dimerization of coumarin pendants. *Dyes Pigm.*, **2018**, *152*, 43-48

17. Jiang, B.; Wang, W.; Zhang, Y.; Lu, Y.; Zhang, C.-W.; Yin, G.-Q.; Zhao, X.-L.; Xu, L.; Tan, H.; **Li, X.**; Jin, G.-X.; Yang, H.-B. Construction of π-surfaces metalated pillar[5]arenes with anion binding behavior via anion-π interactions. *Angew. Chem. Int. Ed.*, **2017**, *56*,14438-14442

18. Huang, Z.; Zhao, J.; Wang, Z.; Meng, F.; Ding, K.; Pan, X.; Zhou, N.; **Li, X.**; Zhang, Z.; Zhu, X. Combining orthogonal chain end deprotections and thiol-maleimide Michael coupling: Engineering discrete oligomers through iterative growth strategy. *Angew. Chem. Int. Ed.,* **2017***, 56*, 13612-13617

19. Jiang, Z.; Li, Y.; Wang, M.; Liu, D.; Yuan, J.; Chen, M.; Newkome, G. R.; Sun, W.; **Li, X.**; Wang, P. Constructing high generation of Sierpiński triangles with molecular puzzling. *Angew. Chem. Int. Ed.,* **2017***, 56*, 11450–11455

20. Huang, C.-B.; Xu, L.; Zhu, J.-L.; Wang, Y.-X.; Sun, B.; **Li, X.**; Yang, H.-B. Real-time monitoring the dynamics of coordination-driven self-assembly by fluorescence-resonance energy transfer. *J. Am. Chem. Soc.*, **2017**, *139*, 9459–9462

21. Zhang, Z.; Wang, H.; Wang, X.; Li, Y.; Song, B.; Bolarinwa, O.; Reese, R. A.; Zhang, T.; Wang, X.-Q.; Cai, J.; Xu, B.; Wang, M.; Liu, C.; Yang, H.-B.; **Li, X**. Supersnowflakes: Stepwise self-assembly and dynamic exchange of rhombus star-shaped supramolecules. *J. Am. Chem. Soc.*, **2017**, *139*,8174–8185

22. Song, B.; Zhang, Z.; Wang, K.; Hsu, C.-H.; Bolarinwa, O.; Wang, J.; Li, Y.; Yin, G.-Q.; Rivera, E.; Yang, H.-B.; Liu, C.; Xu, B.; **Li, X.** Direct self-assembly of 2D and 3D Star of David. *Angew. Chem. Int. Ed.,* **2017***, 56*, 5258–5262

23. Jiang, Z.; Li, Y.; Wang, M.; Song, B.; Wang, K.; Sun, M.; Liu, D.; Li, X.; Yuan, J.; Chen, M.; Guo, Y.; Yang, X.; Zhang, T.; Moorefield, C. N.; Newkome, G. R.; Xu, B.; **Li, X.**; Wang, P. Self-assembly of a supramolecular hexagram and a supramolecular pentagram, *Nat. Commun.*, **2017**, *8*, 15476.

24. Zhang, M.; Saha, M. L.; Wang, M.; Zhou, Z.; Song, B.; Lu, C.; Yan, X.; **Li, X.**; Huang, F.; Yin, S.; Stang, P. J. Multicomponent platinum(II) cages with tunable emission and amino acid sensing. *J. Am. Chem. Soc.*, **2017**, *139*, 5067–5074

25. Liu, D.; Wu, W.-H.; Liu, Y.-J.; Wu, X.-L.; Cao, Y.; Song, B.; **Li, X.**; Zhang, W.-B. Topology engineering of proteins in vivo using genetically encoded, mechanically interlocking spyX modules for enhanced stability. *ACS Cent. Sci.*, **2017**, *3*, 473–481

26. Yuan, X.; Jia, Y.; Cai, Y.; Feng, W.; Li, Y.; **Li, X.**; Yuan, L. Unusual binding selectivity with non-selective homoditopic pillar[5]arene oxime: serendipitous discovery of a unique approach to heterobinuclear metalation in solution. *Chem. Commun.*, **2017**, *53*, 2838-2841

27. Ben, H.-J.; Ren, X.-K., Song, B.; **Li, X.**; Feng, Y.; Jiang, W.; Chen, E.-Q.; Wang, Z.; Jiang, S. Synthesis, crystal structure, enhanced photoluminescent property and fluoride detection ability of S-heterocyclic annulated perylene diimide-polyhedral oligosilsesquioxane dye. *J. Mater. Chem. C,* **2017**, *5*, 2566-2576

28. Zhang, M.; Xu, H.; Wang, M.; Saha, M. L.; Zhou, Z.; Yan, X.; Wang, H.; **Li, X.**; Huang, F.; She, N.; Stang, P. J. Platinum(II)-based convex trigonal-prismatic cages via coordination-driven self-assembly and C_{60} encapsulation. *Inorg. Chem.*, **2017**, *56*, 12498–12504

29. Shao, Y.; Yin, G.-Z.; Ren, X.; Zhang, X.; Wang, J.; Guo, K.; **Li, X.**; Wesdemiotis, C.; Zhang, W.-B.; Yang, S.; Zhu, M.; Sun, B. Engineering π–π interactions for enhanced photoluminescent properties: unique discrete dimeric packing of perylene diimides. *RSC Adv.*, **2017**, *7*, 6530-6537

30. Zheng W.; Yang, G.; Jiang, S.-T.; Shao, N.; Yin, G.-Q.; **Li, X.**; Xu, L.; Chen, G.; Yang, H.-B. A tetraphenylethylene (TPE)-based supra-amphiphilic organoplatinum(II) metallacycle and its self-assembly behaviour. *Mater. Chem. Front.*, **2017**, *1*, 1823-1828

31. Zhou, Z.; Yan, X.; Saha, M. L.; Zhang, M.; Wang, M.; **Li, X.**; Stang, P. J. Immobilizing tetraphenylethylene into fused metallacycles: Shape effects on fluorescence emission. *J. Am. Chem. Soc.*, **2016**, *138*,13131–13134

32. Li, Y.; Jiang, Z.; Wang, M.; Yuan, J.; Liu, D.; Yang, X.; Chen, M.; Yan, J.; **Li, X.**; Wang, P. Giant, hollow 2D metallo-architecture: step-wise self-assembly of hexagonal supramolecular nut. *J. Am. Chem. Soc.*, **2016**, *138*, 10041-10046

33. Wang, M.; Wang, K.; Wang, C.; Huang, M.; Hao, X.-Q.; Shen, M.-Z.; Shi, G.-Q.; Zhang, Z.; Song, B.; Cisneros, A.; Song, M.-P.; Xu, B.; **Li, X.** Self-assembly of concentric hexagons and hierarchical self-assembly of supramolecular metal-organic nanoribbons at solid/liquid interface. *J. Am. Chem. Soc.*, **2016**, *138*, 9258–9268

34. Zheng, W.; Chen, L.-J.; Yang, G.; Sun, B.; Wang, X.; Jiang, B.; Yin, G.-Q.; Zhang, L.; **Li, X.**; Liu, M.; Chen, G.; Yang, H.-B. Construction of smart supramolecular polymeric hydrogels cross-linked by discrete organoplatinum(II) metallacycles via post-assembly polymerization. *J. Am. Chem. Soc.*, **2016**, *138*, 4927–4937

35. Yan, X.; Wang, M.; Cook, T. R.; Zhang, M.; Saha, M. L.; Zhou, Z.; **Li, X.**; Huang, F.; Stang, P. J. Light-emitting superstructures with anion effect: coordination-driven self-assembly of pure tetraphenylethylene metallacycles and metallacages. *J. Am. Chem. Soc.*, **2016**, *138*, 4580–4588

36. Jiang, B.; Zhang, J.; Ma, J.-Q.; Zheng, W.; Chen, L.-J.; Sun, B.; Li, C.; Hu, B.; Tan, H.; **Li, X.**; Yang, H.-B. Vapochromic behavior of a chair-shaped supramolecular metallacycle with ultra-stability. *J. Am. Chem. Soc.*, **2016**, *138*, 738–741

37. Zhang, W.; Huang, M.; Su, H; Zhang, S.; Yue, K.; Dong, X.-H.; **Li, X.**; Liu, H.; Zhang, S.; Wesdemiotis, C; Lotz, B.; Zhang, W.-B.; Li, Y.; Cheng, S.Z.D. Toward controlled hierarchical heterogeneities in giant molecules with precisely arranged nano-building blocks. *ACS Cent. Sci.*, **2016**, *2*, 48–54

38. Liu, D.; Jiang, Z.; Wang, M.; Yang, X.; Liu, H.; Chen, M.; Moorefield, C. N.; Newkome, G. R.; **Li, X.**; Wang, P. 3D helical and 2D rhomboidal supramolecules: stepwise self-assembly and dynamic transformation of terpyridine-based metallo-architectures. *Chem. Commun.*, **2016**, *52*, 9773-9776

39. Jiang, B.; Zhang, J.; Zheng, W.; Chen, L.-J.; Yin, G.-Q.; Wang,Y.-X.; Sun, B.; **Li, X.**; Yang, H.-B. Construction of alkynylplatinum(II) bzimpy-functionalized metallacycles and their hierarchical self-assembly behavior in solution promoted by Pt···Pt and π–π interactions. *Chem. Eur. J.,* **2016**, 14664–14671

40. Qian, X.; Gong, W.; **Li, X.**; Fang, L.; Kuang, X.; Ning, G. Fluorescent crosslinked supramolecular polymer constructed by orthogonal self-assembly of metal–ligand coordination and host–guest interaction. *Chem. Eur. J.,* **2016**, *22*, 6881-6890

41. Li, H.; Zhang, H.; Lammer, A. D.; Wang, M.; **Li, X.**; Lynch, V. M.; Sessler, J. L. Quantitative self-assembly of a purely organic three-dimensional catenane in water. *Nature Chem.,* **2015**, *7*,1003–1008

42. Yan, X.; Wang, H.; Hauke, C. E.; Cook, T. R.; Wang, M.; Saha, M. L.; Zhou, Z.; Zhang, M.; **Li, X.**; Huang, F.; Stang, P. J. A suite of tetraphenylethylene-based discrete organoplatinum(II) metallacycles: controllable structure and stoichiometry, aggregation-induced emission, and nitroaromatics sensing. *J. Am. Chem. Soc.*, **2015**, *137*, 15276–15286

43. Shi, Y.; Wang, M.; Ma, C.; Wang, Y.; **Li, X.**; Yu, G. A Conductive self-healing hybrid gel enabled by metal-ligand supramolecule and nanostructured conductive polymer. *Nano Lett.,* **2015**, *15*, 6276–6281

44. Chen, L.-J.; Ren, Y.-Y.; Wu, N.-W.; Sun, B.; Ma, J.-Q.; Zhang, L.; Tan, H.; Liu, M.; **Li, X.**; Yang, H.-B. Hierarchical self-Assembly of discrete organoplatinum(II) metallacycles with polysaccharide via electrostatic interactions and their application for heparin detection. *J. Am. Chem. Soc.*, **2015**, *137*, 11725-11735

45. Sun, B.; Wang, M.; Lou, Z.; Huang, M.; Xu, C.; Li, X.; Chen, L.-J.; Yu, Y.; Davis, G. L.; Xu, B.; Yang, H.-B.; **Li, X.** From ring-in-ring to sphere-in-sphere: Self-assembly of discrete 2D and 3D architectures with increasing stability. *J. Am. Chem. Soc.*, **2015**, *137*, 1556–1564

46. Wang, W.; Chen, L.-J.; Wang, X.-Q.; Sun, B.; **Li, X.**; Zhang, Y.; Shi, J.; Yu, Y.; Zhang, L.; Liu, M.; Yang, H.-B. Organometallic rotaxane dendrimers with fourth-generation mechanically interlocked branches. *Proc. Natl. Acad. Sci. U.S.A.*, **2015**, *112*, 5597–5601

47. Fan, W.-J.; Sun, B.; Ma, J.; **Li, X.**; Tan, H.; Xu, L. Coordination-driven self-assembly of carbazole-based metallodendrimers with generation-dependent aggregation-induced emission behavior. *Chem. Eur. J.*, **2015**, *21*, 12947–12959

48. Wang, W.; Sun, B.; Wang, X.-Q.; Ren, Y.-Y.; Chen, L.-J.; Ma, J.; Zhang, Y.; **Li, X.**; Yu, Y.; Tan, H.; Yang, H.-B. Discrete stimuli-responsive multirotaxanes with supramolecular cores constructed through a modular approach, *Chem. Eur. J.,* **2015**, *21*, 6286–6294

49. Gu, R.; Lamas, J.; Rastogi, S. K.; **Li, X.**; Brittain, W.J; Zauscher, S. Photocontrolled Micellar Aggregation of Amphiphilic DNA-Azobenzene Conjugates, *Colloids Surf. B,* **2015***, 135,* 126-132

50. El-Batal, H.; Rocha, J. M.; Méndez, P. F.; Godínez, L. A.; Guo, K.; **Li, X.**; Lu, X.; Wesdemiotis, C.; Moorefield, C.N.; Newkome, G. R. Perylene-based, bis(terpyridine)-Ru(II) complexes: Synthesis, electrochemical and photovoltaic properties. *Heterocycles*, **2015**, *90*, 502-514

51. Wang, M.; Wang, C.; Hao, X.-Q.; Li, X.; Vaughn, T. J.; Zhang, Y.-Y.; Yu, Y.; Li, Z.-Y.; Song, M.-P.; Yang, H.-B.; **Li, X.** From trigonal bipyramidal to Platonic solids: Self-assembly and self-sorting study of terpyridine-based 3D architectures. *J. Am. Chem. Soc*., **2014**, *136*, 10499–10507

52. Wang, M.; Wang, C.; Hao, X.-Q.; Liu, J.; Li, X.; Xu, C.; Lopez, A.; Sun, L.; Song, M.-P.; Yang, H.-B.; **Li, X.** Hexagon wreaths: Self-assembly of discrete supramolecular fractal architectures using multitopic terpyridine ligands. *J. Am. Chem. Soc.*, **2014**, *136*, 6664–6671

53. Lu, X.; **Li, X.**; Guo, K.; Xie, T.-Z.; Moorefield, C. N.; Wesdemiotis, C.; Newkome, G. R. Probing a hidden world of molecular self-assembly: Concentration-dependent, three-dimensional supramolecular interconversions. *J. Am. Chem. Soc.*, **2014**, *136*,18149–18155

54. Li, Z.-Y.; Zhang, Y.; Zhang, C.-W.; Chen, L.-J.; Wang, C.; Tan, H.; Yu, Y.; **Li, X.**; Yang, H.-B. Cross-linked supramolecular polymer gels constructed from discrete multi-pillar[5]arene metallacycles and their multiple stimuli-responsive behavior. *J. Am. Chem. Soc.*, **2014**, *136*, 8577–8589

55. Chen, L.-J.; Zhao, G.-Z.; Jiang, B.; Sun, B.; Wang, M.; Xu, L.; He, J.; Abliz, Z.; Tan, H.; **Li, X.**; Yang, H.-B. Smart stimuli-responsive spherical nano-structures constructed from supramolecular metallodendrimers via hierarchical self-assembly. *J. Am. Chem. Soc.*, **2014**, *136*, 5993–6001

56. Wang, W.; Zhang, Y.; Sun, B.; Chen, L.-J.; Xu, X.-D.; Wang, M.; **Li, X.**; Yu, Y.; Jiang, W.; Yang, H.-B. The

Construction of complex multicomponent supramolecular systems via the combination of orthogonal self-assembly and self-sorting approach. *Chem. Sci.*, **2014**, *5*, 4554-4560

57. Wang, C.; Hao, X.-Q.; Wang, M.; Guo, C.; Xu, B.; Tan, E. N.; Zhang, Y.-Y.; Yu, Y.; Li, Z.-Y.; Yang, H.-B., Song, M.-P.; **Li, X.** Self-assembly of giant supramolecular cubes with terpyridine ligands as vertices and metals on edges. *Chem. Sci.*, **2014**, *5*, 1221-1226

58. Li, Y.; Guo, K.; Su, H.; **Li, X.**; Feng, X.; Wang, Z.; Zhang, W.; Zhu, S.; Wesdemiotis, C., Cheng S. Z. D.; Zhang, W.-B. Tuning "thiol-ene" reactions toward controlled symmetry breaking in polyhedral oligomeric silsesquioxanes. *Chem. Sci.*, **2014**, *5*, 1046-1053

59. Lu, X.; **Li, X.**; Guo, K.; Wang, J.; Huang, M.; Wang, J.-L.; Xie, T.-Z.; Moorefield, C. N.; Cheng, S. Z. D.; Wesdemiotis, C.; Newkome, G. R. One ligand in dual roles: Self-assembly of a bis-rhomboidal-shaped, three-dimensional molecular wheel. *Chem. Eur. J.*, **2014**, *20*, 13094-13098

60. Rogers, R. A.; Rodier, A. R.; Stanley, J. A.; Douglas, N. A.; **Li, X.**; Brittain, W. J. A study of the spiropyran-merocyanine system using ion mobility-mass spectrometry: experimental support for the cisoid conformation. *Chem. Commun.,* **2014**, *50*, 3424-3426

61. Wu, N.-W.; Chen, L.-J.; **Li, X.**; Ren, Y.-Y.; Xu, L.; Yang, H.-B. Hierarchical self-assembly of discrete hexagonal metallacycle into the ordered nanofibers and stimuli-responsive supramolecular gels. *Chem. Commun.,* **2014**, *50*, 4231-4233

62. Ou-Yang, J.-K.; Zhang, Y.-Y.; He, M.-L.; Li, J.-T.; **Li, X.**; Zhao, X.-L.; Wang, C.-H.; Yu, Y.; Wang, D.-X.; Xu, L.; Yang, H.-B. Unexpected self-assembly of chiral triangles from 90° chiral di-Pt(II) acceptors.*Org. Lett.*, **2014**, *16*, 664–667

63. Zhang, J.; Li, Y.; Wang, L.; Fujiki, M.; **Li, X.;** Zhang, Z.; Zhang, W.; Zhou, N.; Zhu, X. Supramolecular self-assembly and photovoltaic property of soluble fluorogallium phthalocyanine. *RSC Adv.*, **2014**, *4*, 29485-29492

64. Winkel, K. L.; Carberry, J. R.; Wood, L. M.; Araya, M.; Iszard, Z. W.; Cantu, T.; Martin, B.; **Li, X.**; Irvin, J. A. Donor–acceptor–donor polymers utilizing pyrimidine-based acceptors. *React. Funct. Polym.*, **2014**, *83*, 113-122

65. Lu, X.; **Li, X.**; Cao, Y.; Schultz, A.; Wang, J.-L.; Moorefield, C. N.; Wesdemiotis, C.; Cheng S. Z. D.; Newkome, G. R. Self-assembly of a supramolecular, three-dimensional, spoked, bicycle-like wheel. *Angew. Chem. Int. Ed.,* **2013***, 52,* 7728–7731

66. Lou, N.; Wang, Y.; **Li, X.**; Li, H.; Wang, P.; Wesdemiotis, C.; Sokolov, A. P.; Xiong, H. Dielectric relaxation and rheological behavior of supramolecular polymeric liquid. *Macromolecules*, **2013**, *46*, 3160–3166

67. El-Batal, H.; Guo, K.; **Li, X.**; Wesdemiotis, C.; Moorefield, C. N.; Newkome, G. R. Perylene-based bis-, tetrakis-, and hexakis(terpyridine) gigands and their ruthenium(II)–bis(terpyridine) complexes: synthesis and photophysical properties. *Eur. J. Inorg. Chem.*, **2013**, *2013*, 3640–3644

68. Schultz, A.; **Li, X.**; Moorefield, C. N.; Wesdemiotis, C.; Newkome, G. R. Self-assembly and characterization of 3D metallamacrocycles: a study of supramolecular constitutional isomers. *Eur. J. Inorg. Chem*., **2013**, *2013*, 2492–2497

69. Casiano-Maldonado, M.; Lim, G. T.; **Li, X.**; Reneker, D. H.; Puskas, J. E.; Wesdemiotis, C. Protein adsorption on thermoplastic elastomeric surfaces: A quantitative mass spectrometry study. *Int. J. Mass Spectrom.*, **2013**,

354–355, 391–397

Publications Prior to Independent Career

70. Yu, X.; Zhang, W.-B.; Yue, K.; **Li, X.**; Liu, H.; Xin, Y.; Wang, C.-L.; Wesdemiotis, C.; Cheng, S. Z. D. Giant molecular shape amphiphiles based on polystyrene-hydrophilic [60]fullerene conjugates: click synthesis, solution self-assembly, and phase behavior. *J. Am. Chem. Soc.*, **2012**, *134*, 7780-7787

71. Schultz, A.; **Li, X.**; Barkakaty, B.; Moorefield, C. N.; Wesdemiotis, C.; Newkome, G. R. Stoichiometric self-Assembly of isomeric, shape-persistent, supramacromolecular bowtie and butterfly structures. *J. Am. Chem. Soc.*, **2012**, *134*, 7672-7675

72. Xu, Y.; Liu, Q.; **Li, X.**; Wesdemiotis, C.; Pang,Y. A zwitterionic squaraine dye with a large Stokes shift for in vivo and site-selective protein sensing. *Chem. Commun.,* **2012**, *48*, 11313-11315

73. Lu, X.; **Li, X.**; Wang, J.-L.; Moorefield, C. N.; Wesdemiotis, C.; Newkome, G. R. From supramolecular triangle to heteroleptic rhombus: a simple bridge can make a difference. *Chem. Commun.,* **2012**, *48,* 9873-9875

74. Schultz, A.; **Li, X.**; McCusker, C.; Moorefield, C. N.; Castellano, F. N.; Wesdemiotis, C.; Newkome, G. R. Dondorff rings: synthesis, isolation, and properties of 60°-directed bisterpyridine-based folded tetramers. *Chem. Eur. J.,* **2012**, 18, 11569-11572

75. Wang, S.-F.; **Li, X.**; Agapov, R. L.; Wesdemiotis, C.; Foster, M. D. Probing surface concentration of cyclic/linear blend films using surface layer MALDI-TOF mass spectrometry. *ACS Macro Letters*, **2012**, *1,* 1024–1027

76. Schultz, A.; Cao, Y.; Huang, M.; Cheng, S. Z. D.; **Li, X.**; Moorefield, C. N.; Wesdemiotis, C.; Newkome, G. R. Stable, trinuclear Zn(II)- and Cd(II)-metallocycles: TWIM-MS, photophysical properties, and nanofiber formation. *Dalton Trans.*, **2012**, *41*, 11573-11575

77. Scionti, V.; Katzenmeyer, B. C.; Solak, N.; **Li, X.**; Wesdemiotis, C. Interfacing multistage mass spectrometry with liquid chromatography or ion mobility separation for synthetic polymer analysis. *Eur. J. Mass Spectrom.,* **2012***, 18*, 113–137

78. Hsu, P. Y.; Ge, L.; **Li, X.**; Stark, A. Y.; Wesdemiotis, C.; Niewiarowski, P. H.; Dhinojwala, A. Direct evidence of phospholipids in gecko footprints and spatula-substrate contact interface detected using surface-sensitive spectroscopy. *J. R. Soc. Interface,* **2012**, *9*, 657-664

79. Wang, J.-L.; **Li, X.**; Shreiner, C. D.; Lu, X.; Moorefield, C. N.; Tummalapalli, S. R.; Fronczek, F. R.; Wesdemiotis, C.; Newkome, G. R. Shape-persistent Ruthenium(II)- and Iron(II)-bisterpyridine metallodendrimers: synthesis, traveling-wave ion-mobility mass spectrometry, and photophysical properties. *New J. Chem.*, **2012**, *36*, 484-491

80. Chan, Y.-T.; **Li, X.**; Yu, J.; Carri, G. A.; Moorefield, C. N.; Newkome, G. R.; Wesdemiotis, C. Design, synthesis, and traveling wave ion mobility mass spectrometry characterization of iron(II)– and ruthenium(II)–terpyridine metallomacrocycles. *J. Am. Chem. Soc.*, **2011**, *133*, 11967-11976

81. Wang, J.-L.; **Li, X.**; Lu, X.; Hsieh, I-F.; Cao, Y.; Moorefield, C. N.; Wesdemiotis, C.; Cheng, S. Z. D.; Newkome, G. R. Stoichiometric self-Assembly of shape-persistent 2D complexes: a facile route to a symmetric, supramacromolecular spoked wheel. *J. Am. Chem. Soc.*, **2011**, *133*, 11450-11453

82. Li, Y.; Zhang, W.-B.; Hsieh, I-F.; Zhang, G.; Cao, Y.; **Li, X.**; Wesdemiotis, C.; Lotz, B.; Xiong, H.; Cheng, S. Z. D. Breaking symmetry towards non-spherical janus particles based on polyhedral oligomeric silsesquioxanes: molecular design, "click" synthesis, and hierarchical structure. *J. Am. Chem. Soc.*, **2011**, *133*, 10712-10715

83. **Li, X.**; Chan, Y.-T.; Casiano-Maldonad, M.; Yu, J.; Carri, G. A.; Wesdemiotis, C.; Newkome, G. R. Separation and characterization of metallosupramolecular libraries by ion mobility mass spectrometry. *Anal. Chem.,* **2011**, *83*, 6667–6674

84. **Li, X.**; Chan, Y.-T.; Newkome, G. R.; Wesdemiotis, C. Gradient tandem mass spectrometry interfaced with ion mobility separation for the characterization of supramolecular architectures. *Anal. Chem.,* **2011**, *83*, 1284–1290

85. Xu, Y.; Guo, M.; **Li, X.**; Malkovskiy, A.; Wesdemiotis, C.; Pang, Y. Formation of linear supramolecular polymers that is based on host-guest assembly in water. *Chem. Commun.,* **2011**, *47*, 8883-8885

86. Perera, S.; **Li, X.**; Guo, M.; Wesdemiotis, C.; Moorefield, C. N.; Newkome, G. R. Sterically congested, hexameric tetrakispyridinyl-Pd^{II}/Cd^{II}-metallomacrocycles: self-assembly and structural characterization. *Chem. Commun.,* **2011**, *47*, 4658-4660

87. Chan, Y.-T.; **Li, X.**; Moorefield, C. N.; Wesdemiotis, C. Newkome, G. R. Towards larger polygonal architectures: synthesis and characterization of iron(II)– and ruthenium(II)–bis(terpyridine) metallomacrocycles. *Chem. Eur. J.,* **2011**, *17*, 7750–7754

88. Wang, J.-L.; **Li, X.**; Lu, X.; Chan, Y.-T.; Moorefield, C. N.; Wesdemiotis, C.; Newkome, G. R. Dendron functionalized bisterpyridine iron(II)- or cadmium(II)-metallomacrocycles: synthesis, traveling wave ion mobility mass spectrometry, and photophysical properties. *Chem. Eur. J.,* **2011***, 17*, 4830–4838

89. Lin, S.; Zhang, B.; Skoumal, M. J.; Ramunno, B.; **Li, X.**; Wesdemiotis, C.; Liu, L.; Jia, L. Antifouling poly(β-peptoid)s. *Biomacromolecules,***2011***,12*, 2573– 2582

90. **Li, X.**; Guo, L.; Casiano-Maldonad, M.; Zhang, D.; Wesdemiotis, C. Top-down multi-dimensional mass spectrometry methods for synthetic polymer analysis. *Macromolecules,* **2011**, *44*, 4555–4564

91. Li, Y.; Zhang, W.-B.; Janoski, J. E.; **Li, X.**; Dong, X.; Wesdemiotis, C.; Quirk, R. P.; Cheng, S. Z. D. Anionic synthesis of mono- and hetero-telechelic polystyrenes via thiol-ene "Click" chemistry and hydrosilylation. *Macromolecules,* **2011**, *44*, 3328-3337

92. Zhang, W.-B.; Li, Y.; **Li, X.**; Dong, X.; Yu, X.; Wesdemiotis, C.; Cheng, S. Z. D. Synthesis of shape amphiphiles based on functional polyhedral oligomeric silsesquioxane end-capped poly(l-Lactide) with diverse head surface chemistry. *Macromolecules,* **2011**, *44*, 2589–2596

93. Zhang, W.-B.; He, J.; Dong, X.; Wang, C.-L.; Li, H.; Teng, F.; **Li, X.**; Wesdemiotis, C.; Quirk, R. P.; Cheng, S. Z. D. Improved synthesis of fullerynes by Fisher esterification for modular and efficient construction of fullerene polymers with high fullerene functionality. *Polymer*, **2011**, *52*, 4221-4226

94. Hirsch, B. M.; Hao, Y.; **Li, X.**; Wesdemiotis, C.; Wang, Z; Zheng, W. A mechanism-based potent sirtuin inhibitor containing N^{ε}-thiocarbamoyl-lysine (TuAcK). *Bioorg. Med. Chem. Lett.,* **2011**, *21*, 4753-4757

95. Hirsch, B. M.; Du, Z.; **Li, X.**; Sylvester, J. A.; Wesdemiotis, C.; Wang, Z.; Zheng, W. Potent sirtuin inhibition bestowed by L-2-amino-7-carboxamido-heptanoic acid (L-ACAH), a N^{ε}-acetyl-lysine analog. *MedChemComm*, **2011**, *2*, 291-299

96. Yu, X.; Zhong, S.; **Li, X.**; Tu, Y.; Yang, S.; Van Horn, R. M.; Ni, C.; Pochan, D. J.; Quirk, R. P.; Wesdemiotis, C.; Zhang, W.-B.; Cheng, S. Z.D. A giant surfactant of polystyrene−(carboxylic acid-functionalized polyhedral oligomeric silsesquioxane) amphiphile with highly stretched polystyrene tails in micellar assemblies. *J. Am. Chem. Soc.*, **2010**, *132*, 16741-16744

97. Perera, S.; **Li, X.**; Soler, M.; Wesdemiotis, C.; Moorefield, C. N.; Newkome, G. R. Hexameric terpyridinyl-Pd(II) metallomacrocycles: assembly with 4,4′-bipyridine and characterization by TWIM-mass spectrometry. *Angew. Chem. Int. Ed.,* **2010**, *49*, 6539-6544

98. Xu, Y.; Panzner, M. J.; **Li, X.**; Youngs, W. J.; Pang, Y. Host–guest assembly of squaraine dye in cucurbit[8]uril: its implication in fluorescent probe for mercury ions. *Chem. Commun.,* **2010**, *46*, 4073-4075

99. Ren, X.; Sun, B.; Tsai, C.-C.; Van Horn, R. M.; **Li, X.**; Wesdemiotis, C.; Cheng, S. Z.D. Synthesis, self-assembly, and crystal structure of a shape-persistent polyhedral-oligosilsesquioxane-nanoparticle-tethered perylene diimide. *J. Phys. Chem. B,* **2010**, *114*, 4802-4810

100. Gunes, K.; Isayev, A. I.; **Li, X.**; Wesdemiotis, C. Fast in-situ copolymerization of PET/PEN blends by ultrasonically-aided extrusion. *Polymer*, **2010**, *51*, 1071-1081

101. Chan, Y.-T.; **Li, X.**; Soler, M.; Wang, J.-L.; Wesdemiotis, C.; Newkome, G. R. Self-assembly and traveling wave ion mobility mass spectrometry analysis of hexacadmium macrocycles. *J. Am. Chem. Soc.*, **2009**, *131*, 16395–16397

Conference Abstracts

1. Wang, H.; Zhang, Z.; Li, X. Step-wise self-assembly and dynamic exchange of super snowflake shaped metallo-supramolecules. Oral on 254th *ACS National Meeting*, August 2017, Washington, DC

2. Wang, L. Design and self-assembly of different generation of metallomacrocycles from triphenylamine motif. Oral on 254th *ACS National Meeting*, August 2017, Washington, DC

3. Wang, L. Stepwise self-assembly of giant metallo-supramolecules with multiple types of metal ions based on terpyridine ligand. Poster on 254th *ACS National Meeting*, August 2017, Washington, DC

4. Qian, X.; Wang, H.; Song, B.; Yin, G.; Zhang, Z.; Wang, L.; Li, X. Self-assembly of multi-layered metallo-supramolecules with increasing complexity. Oral on 254th *ACS National Meeting*, August 2017, Washington, DC

5. Wang, H.; Qian, X.; Li, X. Self-assembly of metallo-supramolecules with concentric geometry: From second generation to fourth generation. Poster on 254th *ACS National Meeting*, August 2017, Washington, DC

6. Yin, G.; Wang, H.; Li, X. Self-assembly of emissive tetraphenylethylene-based supramolecular rosettes. Poster on 254th *ACS National Meeting*, August 2017, Washington, DC

7. Li, X. Self-assembly of multi-layered metallo-supramolecules with increasing complexity. Poster on 12th International Symposium on Macrocyclic and Supramolecular Chemistry in conjunction with ISACS, July 2017, Cambridge, UK

8. Song, S.; Zhang, Z.; Li, X. Self-assembly of Star of David: 2D and 3D approaches. Oral on 253rd *ACS National Meeting*, April 2017, San Francisco , CA

9. X. Li. Direct self-assembly of multi-layered supramolecular architectures. Oral on the 93rd Florida Annual Meeting and Exposition (FAME) conference. May 2017, Clearwater, FL

10. X. Li. Step-wise self-assembly of giant supramolecular fractals. Oral on the 93rd Florida Annual Meeting and Exposition (FAME) conference. May 2017, Clearwater, FL

11. Yin, G.; Wang, H.; Yang, H.-B.; Li, X. Self-assembly of supramolecular rosettes with generation-dependent aggregation-induced emission behavior. Poster on the 93rd Florida Annual Meeting and Exposition (FAME) conference. May 2017, Clearwater, FL

12. Wang, H.; Qian, X,; Li, X. Self-assembly of high generations of concentric hexagons. Poster on the 93rd Florida Annual Meeting and Exposition (FAME) conference. May 2017, Clearwater, FL

13. Wang, L. Self-assembly of extended molecular fractals. Poster on the 93rd Florida Annual Meeting and Exposition (FAME) conference. May 2017, Clearwater, FL

14. Li, Y.; Qian, X.;Li, X. Post-assembly functionalization of supramolecular ring-in-ring. Poster on the 93rd Florida Annual Meeting and Exposition (FAME) conference. May 2017, Clearwater, FL

15. Zhang, Z.; Wang, H.; Li, X. Super Snowflakes: Step-wise self-assembly and dynamic exchange of rhombus star-shaped supramolecules. Poster on the 93rd Florida Annual Meeting and Exposition (FAME) conference. May 2017, Clearwater, FL

16. Song, B.; Wang, M.; Li, X. Self-assembly and characterization of 2D to 3D supramolecular Star of David using mass spectrometry. Poster on *64th ASMS Conference*, June **2016**, San Antonio, TX

17. Wang, X.; Wang, M.; Cisneros, A.; Li, X. Characterization of conformational isomers of bisthienylethenes (BTEs) using ion mobility mass spectrometry. Poster on *64th ASMS Conference*, June **2016**, San Antonio, TX

18. Ying, Y.; Wang, M.; Williams, K.; Li, X. Assembly and characterization of discrete supramolecular fractal architectures using ESI-MS and ion mobility-mass spectrometry. Poster on *64th ASMS Conference*, June **2016**, San Antonio, TX

19. Wang, M.; Li, X. Hexagon-in-hexagon: Synthesis and self-assembly of discrete concentric hexagons. Oral on 251st *ACS National Meeting*, March **2016**, San Diego, CA

20. Sun, B.; Wang, M.; Cisneros, A.; Li, X. Density of coordination sites (DOCS): A concept reconciles supramolecular design, complexity, stability and mass spectrometry characterization. Poster on *63rd ASMS Conference*, May **2015**, St. Louis, MO

21. Wang, M.; Sun, B.; Cisneros, A.; Li, X. Design and self-assembly of metallo-supramolecular structures guided by density of coordination sites. Oral on 249th *ACS National Meeting*, March **2015**, Denver, CO

22. Rastogi, S. K.; Gu, R.; Lamas, J.; Li, X.; Zauscher, S.; Brittain, W. J. Synthesis of Photoresponsive single stranded DNA aggregates via click chemistry. Oral on 249th *ACS National Meeting*, March **2015**, Denver, CO.

23. Rogers, R. A.; Rodier, A. R.; Douglas, N. A.; Stanley, J. A.; Li, X.; Brittain, W. J. Ion-mobility mass spectrometry of a widely used photochromic system: Experimental support for the cisoid form of spiropyran. *247th ACS National Meeting*, March **2014**, Dallas, TX

24. Lu, X.; Li, X.; Moorefield, C. N.; Wesdemiotis, C.; Newkome, G. R.Terpyridine-based, coordination-driven,

2D and 3D supramolecular architectures. *247th ACS National Meeting*, March **2014**, Dallas, TX

25. Koslan, N.; Medellin, D.; Dasari, R.; Li, X.; Maeder, C.; Kornienko, A. Mass Spectrometry Study of a Covalent Modification of Calmodulin by a Fungal Metabolite Ophiobolin A. *69th Southwest Regional Meeting of ACS*, November **2013**, Waco, TX

26. Wang, S.-F.; Li, X.; Agapov, R. L.; Wesdemiotis, C.; Foster, M. D. Probing Surface Concentration of Cyclic/ Linear Blend Films Using Surface Layer MALDI-TOF Mass Spectrometry. Oral on 245th *ACS National Meeting*, April **2013**, New Orleans, LA

27. Li, X.; Wang, S.-F.; Agapov, R. L.; Foster, M. D.; Wesdemiotis, C. Surface MALDI-ToF Mass Spectrometry: In-Situ Characterization of Polymer Surfaces Composition in Polymer Blend Films. Poster on *60th ASMS Conference*, May **2012**, Vancouver, Canada

28. Schultz, A.; Li, X.; Sarkar, R.; Wesdemiotis, C.; Moorefield, C. N.; Newkome, G. R. Self assembly of terpyridine based supramolecules. Oral on *243rd ACS National Meeting*, March **2012**, San Diego, CA

29. Newkome, G. R.; Wang, J.-L.; Li, X.; Wesdemiotis, C.; Lu, X.; Schultz, A.; Sarkar, R. Stoichiometric Self-assembly of Symmetric Supramacromolecular Complexes. *242th ACS National Meeting*, August **2011**, Denver, CO

30. Li, X.; Wang, J.-L.; Chan, Y.-T.; Newkome, G. R.; Wesdemiotis, C. From macrocycles to molecular spoked wheel: travelling wave ion mobility analysis of metallo-supramolecules and supramolecular polymers. Oral on *59th ASMS Conference*, June **2011**, Denver, CO

31. Guo, K.; Li, X.; Li, Y.; Cheng, S. Z. D.; Wesdemiotis, C. Characterization of ortho-, meta-, and para- isomers in POSS coupling systems using travelling wave ion mobility mass spectrometry. Poster on *59th ASMS Conference*, June **2011**, Denver, CO

32. Wesdemiotis, C.; Li, X.; Hsu, P. Y.; Stark, A.; Ge, L.; Niewiarowski, P.; Dhinojwala, A. Poster on *59th ASMS Conference*, June **2011**, Denver, CO

33. Wang, S.-F.; Li, X.; Hu, R.; Akgun, B.; Agapov, R. L.; Wesdemiotis, C.; Wu, D. T.; Foster, M. D. Surface segregation of small macrocyclic chains. Annual meeting of APS, March **2011**, Dallas, TX

34. Wesdemiotis, C.; Li, X.; Solak, N.; Newkome, G. R.; Cheng, S. Z. D. Interfacing Mass Spectrometry with Liquid and Gas Phase Separations for Synthetic Polymer Analysis. *37th* FACSS, October **2010**, Raleigh, NC

35. Li, X.; Chan, Y.-T.; Newkome, G. R.; Wesdemiotis, C. Characterization of terpyridine-based metallomacrocycles using ion mobility mass spectrometry. Oral on *240th ACS National Meeting*, August **2010**, Boston, MA

36. Li, X.; Chan, Y.-T.; Newkome, G. R.; Wesdemiotis, C. Traveling wave ion mobility mass spectrometry analysis of multiple self-assembled terpyridine - ruthenium and - iron macrocycles. Poster on *240th ACS National Meeting*, August **2010**, Boston, MA

37. Li, X.; Chan, Y.-T.; Newkome, G. R.; Wesdemiotis, C. Characterization of self-assembled zinc terpyridine macrocycles using traveling wave ion mobility mass spectrometry. Poster on *58th ASMS Conference*, May **2010**, Salt Lake City, UT

38. Wesdemiotis, C.; Li, X.; Zhang W.-B.; Cheng, S. Z. D. Ion mobility mass spectrometry of supramolecular

polymers, Oral on *58th ASMS Conference*, May **2010**, Salt Lake City, UT

39. Lim, G. T; Casiano-Maldonado, M.; Li, X.; Wesdemiotis, C.; Reneker, D. H.; Puskas, J. E. Hydrophobic elastomeric biber mats for soft tissue engineering and wound care. Poster on *Society For Biomaterials, Annual Meeting and Exposition*, May **2010**, Seattle. WA

40. Gunes, K.; Isayev, A. I.; Li, X.; Wesdemiotis, C. Effects of ultrasonically-aided extrusion on the structure and properties of PET, PEN and copolymerization of their blends. Oral on *239th ACS National Meeting*, March **2010**, San Francisco, CA

41. Li, X.; Chan, Y.-T.; Soler, M.; Wang, J.-L.; Wesdemiotis, C.; Newkome, G. R. Application of ion mobility mass spectrometry to hexacadmium macrocycles. Oral on *239th ACS National Meeting*, March **2010**, San Francisco, CA

Invited Talk

1. Department of Chemistry, University of South Florida, January 19, 2016.
2. Department of Chemistry, Texas A&M University, February 17, 2016.
3. Department of Chemistry & Biochemistry, Texas Tech University, March 7, 2016.
4. College of Chemistry and Molecular Engineering, Peking University, Beijing, China, June 13, 2016
5. School of Chemical Engineering, Dalian University of Technology, Dalian, China, June 15, 2016
6. Fujian Institute of Research on the Structure of Matter, Chinese Academy of Sciences, Fuzhou, China, June 21, 2016
7. Department of Chemistry, South University of Science and Technology of China, Shenzhen, China, June 22, 2016
8. State Key Laboratory of Applied Organic Chemistry, College of Chemistry and Chemical Engineering, Lanzhou University, Lanzhou, China, October 26, 2016
9. State key Laboratory of Molecular Reaction Dynamics, Dalian Institute of Chemical Physics, Chinese Academy of Science, Dalian, China, October 31, 2016
10. College of Chemistry and Molecular Engineering, Zhengzhou University, Zhengzhou, China, May 9, 2017
11. School of Chemistry and Chemical Engineering, Nanjing University, Nanjing, China, May 10, 2017
12. School of Pharmacy, China Pharmaceutical University, Nanjing, China, May 11, 2017
13. School of Chemistry and Chemical Engineering, Southeast University, Nanjing, China, May 12, 2017
14. College of Chemistry and Molecular Engineering, East China Normal University, Shanghai, China, May 13, 2017
15. Department of Chemistry, Fudan University, Shanghai, China May 15, 2017
16. School of Pharmacy, East China University of Science and Technology, Shanghai, China, May 16, 2017
17. College of Chemistry, Chemical Engineering and Materials Science, Soochow University, Suzhou, China, May 17, 2017
18. College of Chemistry and Chemical Engineering Central South University, Changsha, China, May 19, 2017
19. School of Chemistry and Chemical Engineering, Hunan University, Changsha, China, May 22, 2017
20. College of Chemistry and Chemical Engineering, Hunan Normal University, Changsha, China, May 23, 2017
21. College of Chemistry and Molecular Sciences, Wuhan University, Wuhan, China, May 25, 2017
22. Department of Chemistry, Central China Normal University, Wuhan, China, May 26, 2017
23. Department of Chemistry, University of Maryland, College Park, October 5, 2017
24. College of Chemistry, Jilin University, Changchun, China, December 5, 2017
25. College of Chemistry, Northeast Normal University, Changchun, China, December 6, 2017
26. College of Chemistry, Changchun Institute of Applied Chemistry, Chinese Academy Of Sciences, Changchun, China, December 6, 2017
27. College of Chemistry, Chemical Engineering and Materials Science, Soochow University, Suzhou,

December 8, 2017

Service

- Serve as reviewer for *Chemical Society Reviews, Journal of the American Chemical Society, Coordination Chemistry Reviews*, *Analytical Chemistry*, *Macromolecules, Inorganic Chemistry, Organic Letters, Journal of Physical Chemistry B, Polymers, Polymer Chemistry, Soft Matter, Analytica Chimica Acta, Inorganica Chimica Acta, Inorganic Chemistry Frontiers, Scientific Reports, PLOS ONE, International Journal of Mass Spectrometry, Rapid Communications in Mass Spectrometry, Molecules, Journal of Molecular Structure, Journal of Photochemistry and Photobiology A: Chemistry, European Journal of Mass Spectrometry, RSC Advance, International Journal of Polymer Science, Journal of Saudi Chemical Society, Current Analytical Chemistry,* and *Journal of Nanomaterials*.

- Serve as reviewer for funding agencies:
  Reviewer for ACS Petroleum Research Fund (PRF) grants, 2015 and 2016
  Reviewer Vidi grants for Netherlands Organisation for Scientific Research (NWO), 2015

Teaching Experience

CHEM 1342 – General Chemistry II (Fall 2012)
CHEM 1341 – General Chemistry I (Spring 2013)
CHEM 4231 – Advanced Laboratory I (Fall 2013)
CHEM 1341 – General Chemistry I (Spring 2014)
CHEM 5110 – Chemistry Seminar (Spring 2014)
CHEM 4231 – Advanced Laboratory I (Fall 2014)
CHEM 5110 – Chemistry Seminar (Fall 2014)
CHEM 5365 – Separation Methods in Chemical Analysis (Spring 2015)
CHEM 5110 – Chemistry Seminar (Spring 2015)
CHEM 4231 – Advanced Laboratory I (Fall 2015)
CHEM 4331 – Instrumental Analysis (Fall 2015)
CHEM 5370 – Special Topics in Mass Spectrometry (Spring 2016)
CHEM 6938 – Supramolecular Chemistry (Spring 2017)
CHEM 4130C – Methods of Instrumental Analysis (Fall 2017)
CHEM 4131C – Methods of Chemical Investigation (Spring 2018)