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冯元宁 | **Assistant Professor** | Principal Investigator

Address: 101 Stephenson Parkway / SLSRC 2060 / Norman / Oklahoma 73019 / United States

Education	Doctor of Philosophy in Chemistry	2016-2021
	Northwestern University / United States	
	Bachelor of Science in Chemical Biology Honorary in Chemistry	2012-2016
	Tsinghua University / China	

Research Career	Assistant Professor in Materials Science and Engineering	2025-Now
	University of Oklahoma / United States	
	Assistant Professor in Chemistry	2023-Now
	University of Oklahoma / United States	
	Postdoctoral Research Fellow in Chemistry	2021-2023
	Northwestern University / United States / Supervisor: J Fraser Stoddart	
	Graduate Research Assistant in Chemistry	2016-2021
	Northwestern University / United States / Supervisor: J Fraser Stoddart	
	Postgraduate Visiting Scholar in Chemistry	2020
	University of New South Wales / Australia / Host: Dong Jun Kim 김동준	
	Undergraduate Research Assistant in Chemistry	2015-2016
	Tsinghua University / China / Supervisor: Xi Zhang 张希	
	Undergraduate Visiting Scholar in Chemistry	2015
	University of Texas at Austin / United States / Host: Jonathan L Sessler	
	Undergraduate Research Assistant in Chemistry	2013-2015
	Tsinghua University / China / Supervisor: Mei-Xiang Wang 王梅祥	

Selected Awards and Fellowships	University of Oklahoma Research Council's Junior Faculty Fellowship	2025
	29th Annual Presidential International Travel Fellowship	2024
	University Library's Alternative Textbook Grant	2024
	Chemical Abstracts Service Future Leaders Top 100	2023

Academic Activities	53 Publications including: 2 <i>Science</i> 2 <i>Nature</i> 20 <i>J. Am. Chem. Soc.</i> 6 <i>Chem</i> 3 <i>Chem. Sci.</i> 3 <i>Angew. Chem. Int. Ed.</i> 2 <i>CCS Chem.</i> 2 <i>Sci. China Chem.</i> <i>Nat. Chem. Eng.</i> <i>Nat. Synth.</i> <i>Nat. Commun.</i> <i>Matter</i> <i>Proc. Natl. Acad. Sci. U.S.A.</i> <i>Chem. Soc. Rev.</i> <i>Mater. Chem. Front.</i> <i>ACS Cent. Sci.</i> <i>ACS Nano</i> <i>ACS Mater. Lett.</i>	
	18 Peer-Reviews including: 5 <i>J. Am. Chem. Soc.</i> 2 <i>Isr. J. Chem.</i> <i>Nat. Commun.</i> <i>ACS Mater. Lett.</i> <i>J. Phys. Chem. Lett.</i> <i>STAR Protoc.</i> <i>J. Mol. Struct.</i> <i>CCS Chem.</i>	
85 Public Presentations including: 62 Talks 23 Posters		
46 Mentoring including: 2 Postdoc 4 Doctoral 27 Bachelor 13 Short or Visiting		
25 Courses including: 4 Lecture 15 Supervision 6 Teaching Assistant		
Chair for the 2025 Oklahoma Section of the American Chemical Society		
Early Career Board Member of <i>Precis. Chem.</i>		

Achievements	18 Materials Science and Engineering Program Seed Grant	2025
	University of Oklahoma / Norman / Oklahoma / United States	
	17 Research Council's Junior Faculty Fellowship	2025
	University of Oklahoma / Norman / Oklahoma / United States	
	16 29th Annual Presidential International Travel Fellowship	2024
	University of Oklahoma / Norman / Oklahoma / United States	
	15 University Library's Alternative Textbook Grant	2024
	University of Oklahoma / Norman / Oklahoma / United States	
	14 Chemical Abstracts Service Future Leaders Top 100	2023
	Indiana Convention Center / Indianapolis / Indiana / United States	
	13 Best Poster Award at the North American Supramolecular Chemistry Meeting	2022
	Loyola University / New Orleans / Louisiana / United states	
	12 International Institute for Nanotechnology Outstanding Researcher Award	2022
	Northwestern University / Evanston / Illinois / United States	
	11 Chinese Government Award for Outstanding Self-Finance Students Abroad	2022
	Ministry of Education / Beijing / China	
	10 Foresight Fellowship in Nanotechnology	2022
	The Foresight Institute / San Francisco / California / United States	
	9 World Laureates Forum Young Investigator	2021
	World Laureates Association / Shanghai / China	
	8 Foresight Institute Distinguished Student Award	2021
	The Foresight Institute / San Francisco / California / United States	
	7 Best Poster Award at the ACS Publications Symposium	2017
	Shanghai Institute of Organic Chemistry / Shanghai / China	
	6 Tsinghua Xuetao Talents Fellowship	2016
	Tsinghua University / Beijing / China	
	5 Tsinghua Xuetao Overseas Research Scholarship	2015
	Tsinghua University / Beijing / China	
	4 Tsinghua Outstanding Incoming Student Scholarship	2012
	Tsinghua University / Beijing / China	
	3 Suen Tzeng-Jiueq Memorial Scholarship	2012
	Tsinghua University / Beijing / China	
	2 Gold Medal in the 25th Chinese Chemistry Olympiad Final	2011
	Jilin University / Changchun / Jilin / China	
	1 First Prize in Chinese National Chemistry Competition	2011
	Sun Yat-Sen University / Guangzhou / Guangdong / China	

Publications	53	Lee, C. K.; Feng, Y.* ; Enciso, A. E.; Violi, J. P.; Donald, W. A.; Stoddart, J. F.*; Kim, D. J.* An Aqueous Artificial Molecular Pump. <i>Chem</i> 2026 , 12, 102693.
#Equal Contribution		
Corresponding Author	52	Khaleghi, N.; Mason, S. A.; Saeed, M. S.; Feng, Y. A Two-Dimensional Mechanically Interlocked Polymer Crosslinked by [c2]Daisy Chains. <i>Sci. China Chem.</i> 2025 , 68, 3342-3344.

Publications**(Continued)****#Equal Contribution*****Corresponding Author**

- 51** Li, T.#; Liu, B.-T.#; Liu, J.-C.; Sule, N. A.; Ou, J. T.; Huang, J. Y.; Ou, C.; Jia, J.-H.*; **Feng, Y.*** Near-Infrared Emission in Organic Cocrystals Based on Twisted-Component Pseudoencapsulation. *ACS Mater. Lett.* **2025**, 7, 2246–2254.
- 50** Tang, C.; Zhang, R.*; Almunif, S.; Das, P. J.; Brown, P. J.; Young, R. M.; Wu, G.; Han, H.; Zhao, X.; David, A. H. G.; Wu, H.; Song, B.; Wu, Y.; Ye, Y.-M.; **Feng, Y.**; Chen, A. X.-Y.; Stern, C. L.; Li, Z.; Scott, E. A.; Wasielewski, M. R.; Stoddart, J. F. A Compact Catenane with Tunable Mechanical Chirality. *Nat. Synth.* **2025**, 4, 956–964.
- 49** Liu, B.-T.#; Li, T.#; Gong, S.-H.#; Liu, J.-C.; Ruan, Z.-Y.; Han, H.; Li, T. Y.-Z.; **Feng, Y.**; Wang, R.; Gong, L.; Xu, X.; Cao, R.*; Tong, M.-L.*; Stoddart, J. F.*; Liu, T.-F.* Air-Stable Radical Polycyclic Aromatic Hydrogen-Bonded Organic Frameworks. *Chem* **2025**, 11, 102445.
- 48** Lim, A. J.; Littlefield, K. P.; Alkalani, Z.; **Feng, Y.*** Synergistic Cancer Photoimmunotherapy by Harnessing Near Infrared-Activated Nanoparticles Containing Charge Transfer Complexes. *Angew. Chem. Int. Ed.* **2025**, 64, e202423550.
- 47** Liuzzi-Vaamonde, M. A.; Lancaster, J. B.; Mason, S. A.; **Feng, Y.*** Piling up Multidecker Pyrgos[n]cages as Antibacterial Materials. *Sci. China Mater.* **2025**, 68, 314–316.
- 46** Liu, J.-C.#; Li, T.#; Yu, H.; Huang, J. Y.; Li, P.-X.; Ruan, Z.-Y.; Liao, P.-Y.; Ou, C.; **Feng, Y.***; Tong, M.-L.* Integrating Molecular Motions in Ternary Cocrystals for NIR-II Photothermal Conversion. *Angew. Chem. Int. Ed.* **2025**, 64, e202413805.
- 45** Zhao, X.; Young, R. M.*; Tang, C.; Wu, G.; Peinkofer, K. R.; Han, Y.; Yang, S.; Xing, Y.-K.; Han, H.; Wu, H.; Li, X.; **Feng, Y.**; Zhang, R.; Stern, C. L.; Wasielewski, M. R.*; Stoddart, J. F.* Manipulating Symmetry-Breaking Charge Separation Employing Molecular Recognition. *Chem* **2025**, 11, 102248.
- 44** **Feng, Y.#**; Zhao, X.#; Appleton, D. A.#; Han, H.; Young, R. M.; Liu, W.; Lee, C. K.; Li, W.; Liu, B.-T.; Wu, Y.; Tang, C.; Chen, A. X.-Y.; Stern, C. L.; Kim, D. J.; Wasielewski, M. R.; Qiu, Y.*; Stoddart, J. F.* Chalcogenoviologen Enhanced Host-Guest Recognition. *CCS Chem.* **2024**, 6, 2679–2691.
- 43** Ou, C.#; Lv, J.#; Lim, A. J.; Guo, Q.-H.*; **Feng, Y.*** A Light-Driven Chloride Anion Transporter. *Chem* **2024**, 10, 2940–2942.
- 42** Lee, C. K.; **Feng, Y.**; Tajiki, M.; Violi, J. P.; Donald, W. A.; Stoddart, J. F.*; Kim, D. J.* Concise and Efficient Synthesis of Isomeric Hetero[3]rotaxanes. *J. Am. Chem. Soc.* **2024**, 146, 27109–27116.
- 41** Mahapatra, S.#; Qian, D.#; Zhang, R.; Yang, S.; Li, P.; **Feng, Y.**; Zhang, L.; Wu, H.; Seale, J. S. W.; Das, P. J.; Jha, P. K.; Kohlstedt, K. L.; Olvera de la Cruz, M.*; Stoddart, J. F.* Hydrogen-Bonded Fibers Assembled from Trigonal Prismatic Building Blocks. *J. Am. Chem. Soc.* **2024**, 146, 21689–21699.
- 40** Su, P.*; Zhu, X.; Wilson, S. M.; **Feng, Y.**; Samayoa-Oviedo, H. Y.; Sonnendecker, C.; Smith, A. J.; Zimmermann, W.; Laskin, J.* The Effect of Host Size on Binding in Host-Guest Complexes of Cyclodextrins and Polyoxometalates. *Chem. Sci.* **2024**, 15, 11825–11836.

Publications**(Continued)****#Equal Contribution*****Corresponding Author**

- 39** Hu, Y.; Ou, J. T.; Huang, J. Y.; **Feng, Y.*** Increasing Polymer Scission Rate by Tying an Overhand Knot. *Sci. China Chem.* **2024**, 67, 3498–3499.
- 38** **Feng, Y.*** From Mentee to Mentor: Advice for New Principal Investigators. *Trend Chem.* **2024**, 6, 342–345.
- 37** Wu, Y.#; Tang, C.#; Lee, J. T.; Zhang, R.; Bhunia, S.; Kundu, P.; Stern, C. L.; Chen, A. X.-Y.; Shen, D.; Yang, S.; Han, H.; Li, X.; Wu, H.; **Feng, Y.**; Armstrong, D. W.*; Stoddart, J. F.* Metal-Assisted Carbohydrate Assembly. *J. Am. Chem. Soc.* **2024**, 146, 9801–9810.
- 36** Zhao, C.-X. Li, X.-Y.; Han, H.; **Feng, Y.**; Tang, C.; Li, X.; Zhang, L.; Stern, C. L.; Zhang, Q.*; Stoddart, J. F.* Analytical Noncovalent Electrochemistry for Battery Engineering. *Nat. Chem. Eng.* **2024**, 1, 251–260.
- 35** Li, T.; Liu, J.-C.; Liu, E.-P.; Liu, B.-T.; Wang, J.-Y.; Liao, P.-Y.; Jia, J.-H.; **Feng, Y.***; Tong, M.-L.* NIR-II Photothermal Conversion and Imaging Based on a Cocrystal containing Twisted Components. *Chem. Sci.* **2024**, 15, 1692–1699.
- 34** Wang, C.-H.; Lin, Y.-C.; Bhunia, S.; **Feng, Y.**; Kundu, P.; Stern, C. L.; Chen, P.-L.; Kuo, T.-S.; Stoddart, J. F.; Horie, M.* Photosalience and Thermal Phase Transitions of Azobenzene- and Crown Ether-Based Complexes in Polymorphic Crystals. *J. Am. Chem. Soc.* **2023**, 145, 21378–21386.
- 33** Xie, F.; Mao, H.; Lin, C.; **Feng, Y.**; Stoddart, J. F.; Young, R. M.*; Wasielewski, M. R.* Quantum Sensing of Electric Fields using Spin-Correlated Radical Ion Pairs. *J. Am. Chem. Soc.* **2023**, 145, 14922–14931.
- 32** Chen, H.*; Roy, I.; Myong, M. S.; Seale, J. S. W.; Cai, K.; Jiao, Y.; Liu, W.; Song, B.; Zhang, L.; Zhao, X.; **Feng, Y.**; Liu, F.; Young, R. M.*; Wasielewski, M. R.*; Stoddart, J. F.* Triplet–Triplet Annihilation Upconversion in a Porphyrinic Molecular Container. *J. Am. Chem. Soc.* **2023**, 145, 10061–10070.
- 31** Kim, T.#; **Feng, Y.#**; O'Connor, J. P.; Stoddart, J. F.*; Young, R. M.*; Wasielewski, M. R.* Coherent Vibronic Wavepackets Show Structure-Directed Charge Flow in Host-Guest Donor-Acceptor Complexes. *J. Am. Chem. Soc.* **2023**, 145, 8389–8400.
- 30** Zhang, L.*; Qiu, Y.; Liu, W.-G.; Chen, H.; Shen, D.; Song, B.; Cai, K.; Wu, H.; Jiao, Y.; **Feng, Y.**; Seale, J. S. W.; Pezzato, C.; Jia, T.; Tan, Y.; Chen, X.-Y.; Guo, Q.-H.; Stern, C. L.; Philp, D.; Astumian, R. D.*; Goddard III, W. A.*; Stoddart, J. F.* An Electric Molecular Motor. *Nature* **2023**, 613, 280–286.
- 29** Jiao, Y.; Mao, H.; Qiu, Y.; Wu, G.; Chen, H.; Zhang, L.; Han, H.; Li, X.; Zhao, X.; Tang, C.; Chen, X.-Y.; **Feng, Y.**; Stern, C. L.; Wasielewski, M. R.; Stoddart, J. F.* Mechanical Bond-Assisted Full-Spectrum Investigation of Radical Interactions. *J. Am. Chem. Soc.* **2022**, 144, 23168–23178.
- 28** Seale, J. S. W.; **Feng, Y.**; Feng, L.*; Astumian, R. D.*; Stoddart, J. F.* Polyrotaxanes and the Pump Paradigm. *Chem. Soc. Rev.* **2022**, 51, 8450–8475.
- 27** Wu, Y.; Qiu, Y.; **Feng, Y.**; Stoddart, J. F.* Automating Glycan Assembly in Solution. *ACS Cent. Sci.* **2022**, 8, 1369–1372.
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Publications**(Continued)****#Equal Contribution*****Corresponding Author**

- 26 Feng, Y.;** Das, P. J.; Young, R. M.; Brown, P. J.; Hornick, J. E.; Weber, J. A.; Seale, J. S. W.; Stern, C. L.; Wasielewski, M. R.; Stoddart, J. F.* Alkoxy-Substituted Quadrupolar Fluorescent Dyes. *J. Am. Chem. Soc.* **2022**, *144*, 16841–16854.
- 25 Wu, Y.;** Guo, Q.-H.*; Qiu, Y.; Weber, J. A.; Young, R. M.; Bancroft, L.; Jiao, Y.; Chen, H.; Song, B.; Liu, W.; **Feng, Y.;** Zhao, X.; Li, X.; Zhang, L.; Chen, X.-Y.; Li, H.; Wasielewski, M. R.; Stoddart, J. F.* Syntheses of Three-Dimensional Catenanes under Kinetic Control. *Proc. Natl. Acad. Sci. U. S. A.* **2022**, *119*, e2118573119.
- 24 Jiao, Y.#;** Qiu, Y.#; Zhang, L.; Liu, W.-G.; Mao, H.; Chen, H.; **Feng, Y.;** Cai, K.; Shen, D.; Song, B.; Chen, X.-Y.; Li, X.; Zhao, X.; Young, R. M.; Stern, C. L.; Wasielewski, M. R.; Astumian, R. D.; Goddard III, W. A.*; Stoddart, J. F.* Electron-Catalysed Molecular Recognition. *Nature* **2022**, *603*, 265–270.
- 23 Li, X.#;** David, A. H. G.#; Zhang, L.; Song, B.; Jiao, Y.; Sluysmans, D.; Qiu, Y.; Wu, Y.; Zhao, X.; **Feng, Y.;** Mosca, L.; Stoddart, J. F.* Fluorescence Quenching by Redox Molecular Pumping. *J. Am. Chem. Soc.* **2022**, *144*, 3572–3579.
- 22 Feng, L.#;** Qiu, Y.#; Guo, Q.-H.; Chen, Z.; Seale, J. S. W.; He, K.; Wu, H.; **Feng, Y.;** Farha, O. K.; Astumian, R. D.; Stoddart, J. F.* Active Mechanisorption Driven by Pumping Cassettes. *Science* **2021**, *374*, 1215–1221.
- 21 Feng, Y.;** Philp, D.* A Molecular Replication Process Drives Supramolecular Polymerization. *J. Am. Chem. Soc.* **2021**, *143*, 17029–17039.
- 20 Liu, W.;** Tan, Y.*; Song, B.; Guo, Q.-H.; Zhang, L.; Qiu, Y.; **Feng, Y.;** Chen, X.-Y.; Stoddart, J. F.* PCage: Fluorescent Molecular Temples for Binding Sugars in Water. *J. Am. Chem. Soc.* **2021**, *143*, 15688–15700.
- 19 Chen, X.-Y.;** Mao, H.; **Feng, Y.;** Cai, K.; Shen, D.; Wu, H.; Zhang, L.; Zhao, X.; Chen, H.; Song, B.; Jiao, Y.; Wu, Y.; Stern, C. L.; Wasielewski, M. R.; Stoddart, J. F.* Radically Enhanced Dual Recognition. *Angew. Chem. Int. Ed.* **2021**, *60*, 25454–25462.
- 18 Guo, Q.-H.#*;** Jiao, Y.#; **Feng, Y.#;** Stoddart, J. F.* The Rise and Promise of Molecular Nanotopology. *CCS Chem.* **2021**, *3*, 1542–1572.
- 17 Jiao, Y.#;** Đorđević, L.#; Mao, H.; Young, R. M.; Jaynes, T.; Chen, H.; Qiu, Y.; Cai, K.; Zhang, L.; Chen, X.-Y.; **Feng, Y.;** Wasielewski, M. R.; Stupp, S. I.*; Stoddart, J. F.* A Donor-Acceptor [2]Catenane for Visible Light Photocatalysis. *J. Am. Chem. Soc.* **2021**, *143*, 8000–8010.
- 16 Feng, Y.;** Ovalle, M.; Seale, J. S. W.; Lee, C. K.; Kim, D. J.; Astumian, R. D.*; Stoddart, J. F.* Molecular Pumps and Motors. *J. Am. Chem. Soc.* **2021**, *143*, 5569–5591.
- 15 Chen, X.-Y.;** Shen, D.; Cai, K.; Jiao, Y.; Wu, H.; Song, B.; Zhang, L.; Tan, Y.; Wang, Y.; **Feng, Y.;** Stern, C. L.; Stoddart, J. F.* Suit[3]ane. *J. Am. Chem. Soc.* **2020**, *142*, 20152–20160.
- 14 Qiu, Y.;** **Feng, Y.;** Guo, Q.-H.; Astumian, R. D.*; Stoddart, J. F.* Pumps through the Ages. *Chem* **2020**, *6*, 1952–1977.
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Publications**(Continued)****#Equal Contribution*****Corresponding Author**

- 13** Guo, Q.-H.#; Qiu, Y.#; Kuang, X.; Liang, J.; **Feng, Y.**; Zhang, L.; Jiao, Y.; Shen, D.; Astumian, R. D.*; Stoddart, J. F.* Artificial Molecular Pump Operating in Response to Electricity and Light. *J. Am. Chem. Soc.* **2020**, *142*, 14443–14449.
- 12** Qiu, Y.; Song, B.; Pezzato, C.; Shen, D.; Liu, W.; Zhang, L.; **Feng, Y.**; Guo, Q.-H.; Cai, K.; Li, W.; Chen, H.; Nguyen, M. T.; Shi, Y.; Cheng, C.; Astumian, R. D.*; Li, X.*; Stoddart, J. F.* A Precise Polyrotaxane Synthesizer. *Science* **2020**, *368*, 1247–1253.
- 11** Qiu, Y.; Chen, H.; **Feng, Y.**; Schott, M. E.; Stoddart, J. F.* Stitching up the Belt[*n*]arenes. *Chem* **2020**, *6*, 826–829.
- 10** Cai, K.; Mao, H.; Liu, W.-G.; Qiu, Y.; Shi, Y.; Zhang, L.; Shen, D.; Chen, H.; Jiao, Y.; Wu, H.; Liu, Z.; **Feng, Y.**; Stern, C. L.; Wasielewski, M. R.; Goddard III, W. A.; Stoddart, J. F.* Highly Stable Organic Biscaradicals Protected by Mechanical Bonds. *J. Am. Chem. Soc.* **2020**, *142*, 7190–7197.
- 9** Guo, Q.-H.; Zhou, J.; Mao, H.; Qiu, Y.; Nguyen, M. T.; **Feng, Y.**; Liang, J.; Shen, D.; Li, P.; Liu, Z.; Wasielewski, M. R.; Stoddart, J. F.* TetrazineBox: A Structurally Transformative Toolbox. *J. Am. Chem. Soc.* **2020**, *142*, 5419–5428.
- 8** Astumian, R. D.*; Pezzato, C.; **Feng, Y.**; Qiu, Y.; McGonigal, P. R.; Cheng, C.; Stoddart, J. F. Non-Equilibrium Kinetics and Trajectory Thermodynamics of Synthetic Molecular Pumps. *Mater. Chem. Front.* **2020**, *4*, 1304–1314.
- 7** Chen, H.#; Zheng, H.#; Hu, C.#; Cai, K.; Jiao, Y.; Zhang, L.; Jiang, F.; Roy, I.; Qiu, Y.; Shen, D.; **Feng, Y.**; Alsubaie, F. M.; Guo, H.*; Hong, W.*; Stoddart, J. F.* Giant Conductance Enhancement of Intramolecular Circuits through Interchannel Gating. *Matter* **2020**, *2*, 378–389.
- 6** Qiu, Y.; Zhang, L.; Pezzato, C.; **Feng, Y.**; Li, W.; Nguyen, M. T.; Cheng, C.; Shen, D.; Guo, Q.-H.; Shi, Y.; Cai, K.; Alsubaie, F. M.; Astumian, R. D.; Stoddart, J. F.* A Molecular Dual Pump. *J. Am. Chem. Soc.* **2019**, *141*, 17472–17476.
- 5** Jiao, T.; Cai, K.; Nelson, J. N.; Jiao, Y.; Qiu, Y.; Wu, G.; Zhou, J.; Cheng, C.; Shen, D.; **Feng, Y.**; Liu, Z.; Wasielewski, M. R.*; Stoddart, J. F.*; Li, H.* Stabilizing the Naphthalenediimide Radical within a Tetracationic Cyclophane. *J. Am. Chem. Soc.* **2019**, *141*, 16915–16922.
- 4** Zhou, X.#; McCallum, N. C.#; Hu, Z.; Cao, W.; Gnanasekaran, K.; **Feng, Y.**; Stoddart, J. F.; Wang, Z.*; Gianneschi, N. C.* Artificial Allomelanin Nanoparticles. *ACS Nano* **2019**, *13*, 10980–10990.
- 3** Jiao, T.; Cai, K.; Liu, Z.; Wu, G.; Shen, L.; Cheng, C.; **Feng, Y.**; Stern, C. L.; Stoddart, J. F.*; Li, H.* Guest Recognition Enhanced by Lateral Interactions. *Chem. Sci.* **2019**, *10*, 5114–5123.
- 2** Cai, K.; Lipke, M. C.; Liu, Z.; Nelson, J.; Cheng, T.; Shi, Y.; Cheng, C.; Shen, D.; Han, J.-M.; Vemuri, S.; **Feng, Y.**; Stern, C. L.; Goddard III, W. A.; Wasielewski, M. R.; Stoddart, J. F.* Molecular Russian Dolls. *Nat. Commun.* **2018**, *9*, 5275.
- 1** Zeng, L.; Guo, Q.-H.; **Feng, Y.**; Xu, J.-F.; Wei, Y.; Li, Z.; Wang, M.-X.; Zhang, X.* Host-Guest Interaction between Corona[*n*]arene and Bisquaternary Ammonium Derivatives for Fabricating Supra-Amphiphile. *Langmuir* **2017**, *33*, 5829–5834.

Patents	1 Feng, Y.; Stoddart, J. F. Substituted Quadrupolar Fluorescent Dyes for Live Cell Imaging. <i>US Patent</i> , 2025 , 18828883.	
Peer Review	18 CCS Chemistry / CCSC-2025-06895 Chinese Chemical Society / Editor-in-Chief: Xi Zhang 张希	2025
	17 Beilstein Journal of Organic Chemistry / 42130804 Beilstein-Institut / Guest Editor: Hermann A Wegner	2025
	16 Future Investigators in NASA Earth and Space Science and Technology (FINESST) Program / 24-BPS24-0011 National Aeronautics and Space Administration (NASA) Biological and Physical Sciences Program / Senior Scientist: Preethi Manoharan	2025
	15 Journal of the American Chemical Society / JA-2025-11040C ACS Publications / Associate Editor: E W Bert Meijer	2025
	14 Science China Materials / SCMS-2025-0949 Springer / Associate Editor: Feng Gao 高峰	2025
	13 ACS Materials Letters / TZ-2025-00638J ACS Publications / Deputy Editor: Hong-Cai Zhou 周宏才	2025
	12 Israel Journal of Chemistry / IJCH.1858444 Wiley-VCH / Associate Editor: Charles E Diesendruck	2025
	11 Science China Materials / SCMS-2025-0224 Springer / Associate Editor: Xuesi Chen 陈学思	2025
	10 Nature Communication / NCOMMS-25-10046-T Nature Portfolio / Chief Editor: Margherita Citroni	2025
	9 Science China Chemistry / SCC-2024-0786 Springer / Associate Editor: Ben Zhong Tang 唐本忠	2024
	8 Journal of the American Chemical Society / JA-2024-05376B ACS Publications / Associate Editor: Omar M Yaghi	2024
	7 Israel Journal of Chemistry / IJCH.202400025 Wiley-VCH / Guest Editor: Víctor García-López	2024
	6 STAR Protocols / STAR-PROTOCOLS-D-24-00033 Cell Press / Scientific Editor: Leila Shokri	2024
	5 Journal of the American Chemical Society / JA-2023-14200R ACS Publications / Associate Editor: Omar M Yaghi	2024
	4 Journal of Molecular Structure / MOLSTRUC-D-23-07696 Elsevier ScienceDirect / Editor: Luca Evangelisti	2023
	3 Journal of the American Chemical Society / JA-2023-08630Y ACS Publications / Associate Editor: Omar M Yaghi	2023
	2 Journal of Physical Chemistry Letters / JZ-2022-02960J ACS Publications / Senior Editor: Haizheng Zhong 钟海政	2022
	1 Journal of the American Chemical Society / JA-2021-09385X ACS Publications / Associate Editor: Omar M Yaghi	2021
Academic Appointment	3 Private Grant Advisor Molecular Nanotechnology Fast Grant / Foresight Institute	2025-Now

	2 Society Local Section Chair	2025–Now
	Oklahoma Section of the American Chemical Society	
	1 Early Career Board	2024–Now
	Precision Chemistry / ACS Publications	
Oral Presentations	62 The 76th Southeastern and 81st Southwest Joint Regional Meeting of the American Chemical Society	
	October 2025 / DoubleTree by Hilton Orlando at SeaWorld / Orlando / Florida / United States	
	<i>New Design Strategies for Near-Infrared Photothermal Conversion Organic Cocrystals</i>	
	61 OU Chemistry Club Undergraduate Research Opportunity Day	
	September 2025 / University of Oklahoma / Norman / Oklahoma / United States	
	<i>Yuanning Feng Research Group – Playing with Smart Molecules Together</i>	
	60 New PhD Students Welcome Seminar in the Department of Chemistry and Biochemistry at the University of Oklahoma	
	August 2025 / University of Oklahoma / Norman / Oklahoma / United States	
	<i>Joining Yuanning Feng Research Group to Play with Smart Molecules Together</i>	
	59 The 270th American Chemical Society Meeting	
	August 2025 / Walter E. Washington Convention Center / Washington DC / United States and Online	
	<i>NIR-II Photothermal Conversion by Using Organic Cocrystals</i>	
	58 Tulane University Department of Chemistry Fall 2025 Seminars	
	August 2025 / Tulane University / New Orleans / Louisiana / United States	
	<i>Fluorescent Dyes and Photothermal Materials Based on Organic Donors and Acceptors</i>	
	57 The 13th Clean Energy Science and Technology Youth Forum	
	July 2025 / Beijing University of Chemical Technology / Beijing / China and Online	
	<i>New Design Strategies for Near-Infrared Photothermal Conversion Organic Cocrystals</i>	
	56 Gordon Research Conference: Artificial Molecular Switches and Motors	
	June 2025 / Colby-Sawyer College / New London / New Hampshire / United States	
	<i>Molecular Motors Driven by Electrons and Protons</i>	
	55 Gordon Research Seminar: Artificial Molecular Switches and Motors	
	June 2025 / Colby-Sawyer College / New London / New Hampshire / United States	
	<i>Aqueous Artificial Molecular Pumps</i>	
	54 Glenn T Seaborg Symposium	
	March 2025 / University of California, Los Angeles / Los Angeles / California / United States	
	<i>From Light to Heat – Doing New Things in Oklahoma</i>	
	53 The 66th American Chemical Society Pentasectional Meeting	
	March 2025 / Oral Roberts University / Tulsa / Oklahoma / United States	
	<i>Manipulation of Cocrystals for Photothermal Conversion</i>	
	52 Fraser Stoddart Memorial Meeting	
	February 2024 / The Standing Order / Edinburgh / United Kingdom	
	<i>In Memorial of My Dearest Mentor – Fraser Stoddart</i>	

**Oral
Presentations
(Continued)**

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- 51 Invited Talk by the OU Society of Asian Scientists and Engineers**
November 2024 / University of Oklahoma / Norman / Oklahoma / United States
From a Student to a Professor – My Story with Chemistry over the Past 15 Years
- 50 The 80th American Chemical Society Southwest Regional Meeting**
October 2024 / Waco Convention Center / Waco / Texas / United States
Molecular Motors Driven by Electrons and Protons
- 49 Molecular Machinery: Modelling, Making, Measuring Meeting**
September 2024 / Fortress of Bertinoro / Bertinoro / Emilia-Romagna / Italy
Molecular Motors Driven by Electrons and Protons
- 48 New PhD Students Welcome Seminar in the Department of Chemistry and Biochemistry at the University of Oklahoma**
August 2024 / University of Oklahoma / Norman / Oklahoma / United States
Joining Yuanning Feng Research Group to Play with Smart Molecules Together
- 47 Invited Talk by Tsinghua Shenzhen International Graduate School**
August 2024 / Tsinghua Shenzhen International Graduate School / Shenzhen / Guangdong / China
Molecular Replication and Polymerization Driven by Biomimicking Autocatalysis
- 46 The 22nd Chinese National Symposium on Macrocyclic Chemistry and the 14th Chinese National Symposium on Supramolecular Chemistry**
July 2024 / Chenggong Yinyuan Hotel / Kunming / Yunnan / China
Molecular Replication and Polymerization Driven by Biomimicking Autocatalysis
- 45 Invited Talk by Hunan University**
July 2024 / Hunan University / Changsha / Hunan / China
A Tale of Two in the Nanoscale – Molecular Pumps and Replicators
- 44 Invited Talk by the University of Hong Kong**
June 2024 / University of Hong Kong / Hong Kong / China
Manipulation of Cocrystals for New Applications
- 43 ShanghaiTech University System Materials Division Seminar**
June 2024 / ShanghaiTech University / Shanghai / China
A Tale of Two in the Nanoscale – Molecular Pumps and Replicators
- 42 East China Normal University Master Lecture Series Academic Seminar**
June 2024 / East China Normal University / Shanghai / China
A Tale of Two in the Nanoscale – Molecular Pumps and Replicators
- 41 Invited Talk by Shanghai Jiao Tong University**
June 2024 / Shanghai Jiao Tong University / Shanghai / China
A Tale of Two in the Nanoscale – Molecular Pumps and Replicators
- 40 Invited Talk by East China University Science and Technology**
June 2024 / East China University Science and Technology / Shanghai / China
A Tale of Two in the Nanoscale – Molecular Pumps and Replicators
- 39 Invited Talk by South-Central Minzu University**
June 2024 / South-Central Minzu University / Wuhan / Hubei / China
A Tale of Two in the Nanoscale – Molecular Pumps and Replicators
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**Oral
Presentations
(Continued)**

38 The 130th Long Feng Science Forum Seminar Series

May 2024 / Chinese University of Hong Kong – Shenzhen / Shenzhen / Guangdong / China

A Tale of Two in the Nanoscale – Molecular Pumps and Replicators

37 Chongqing University Academic Master Lecture

May 2024 / Chongqing University / Chongqing / China

A Tale of Two in the Nanoscale – Molecular Pumps and Replicators

36 Smart Molecules and Sensing Symposium

May 2024 / Xi'an Jiaotong University / Xi'an / Shannxi / China

Manipulation of Cocrystals for New Applications

35 Key Laboratory of Molecular Recognition and Function Academic Lecture

May 2024 / Institute of Chemistry Chinese Academy of Sciences / Beijing / China

A Tale of Two in the Nanoscale – Molecular Pumps and Replicators

34 Beijing University of Chemical Technology Soft Matter Research Center Seminar

May 2024 / Beijing University of Chemical Technology / Beijing / China

A Tale of Two in the Nanoscale – Molecular Pumps and Replicators

33 The 26th Quinoa Mini Salon Hosted by Tsinghua Zhili College

May 2024 / Tsinghua University / Beijing / China

Story Telling by an Alumni – My Fate with Scientific Research

32 Invited Talk by Beijing Normal University

May 2024 / Beijing Normal University / Beijing / China

A Tale of Two in the Nanoscale – Molecular Pumps and Replicators

31 Invited Talk by the Fujian Institute of Research on the Structure of Matter

May 2024 / Fujian Institute of Research on the Structure of Matter / Fuzhou / Fujian / China

A Tale of Two in the Nanoscale – Molecular Pumps and Replicators

30 Post-ISMSC Meeting at Xiamen University

May 2024 / Xiamen University / Xiamen / Fujian / China

Manipulation of Cocrystals for New Applications

29 Invited Talk by the OU Math Club at the University of Oklahoma

March 2024 / University of Oklahoma / Norman / Oklahoma / United States

Tying the Tiniest Knot and Weaving the Thinnest Fabric

28 American Chemical Society Leadership Institute

January 2024 / The Westin Peachtree Plaza / Atlanta / Georgia / United States

Local Section Proposal: Joint Science Center and Seminar for Families

27 Foresight Molecular Systems Design Workshop

September 2023 / Salesforce Tower / San Francisco / California / United States

Molecular Legos – Solid Phase Synthesis of Molecular Machines

26 Foresight Molecular Systems Design Workshop

September 2023 / Salesforce Tower / San Francisco / California / United States

Molecular Machines Tech Tree

**Oral
Presentations
(Continued)**

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- 25 New Faculty Welcome Seminar in the Department of Chemistry and Biochemistry at the University of Oklahoma**
September 2023 / University of Oklahoma / Norman / Oklahoma / United States
Yuanning Feng Research Group – Playing with Smart Molecules Together
- 24 New PhD Students Welcome Seminar in the Department of Chemistry and Biochemistry at the University of Oklahoma**
August 2023 / University of Oklahoma / Norman / Oklahoma / United States
Joining Yuanning Feng Research Group to Play with Smart Molecules Together
- 23 The 265th American Chemical Society Meeting**
March 2023 / Indiana Convention Center / Indianapolis / Indiana / United States
Fluorescent Dyes Based on Alkoxy Quadrupolar Backbones
- 22 Research Seminar in the Department of Chemistry and Biochemistry at the University of Arkansas**
March 2023 / University of Arkansas / Fayetteville / Arkansas / United States
A Tale of Two Different Systems – Artificial Molecular Pump | Molecular Replicators
- 21 Research Seminar in the Department of Chemistry and Biochemistry at the University of Oklahoma**
February 2023 / University of Oklahoma / Norman / Oklahoma / United States
A Tale of Two Different Systems – Artificial Molecular Pump | Molecular Replicators
- 20 Basolo-Ibers-Pearson Informal Inorganic Chalk Talk**
January 2023 / Northwestern University / Evanston / Illinois / United States
Molecular Replication Makes Supramolecular Polymers
- 19 The Foresight Institute Vision Weekend**
December 2022 / Internet Archive / San Francisco / California / United States
A. The Molecular Machines Tech Tree
- 18 The Foresight Institute Nanotech Seminar Series**
October 2022 / Online
A. The Molecular Machines Tech Tree
- 17 The 264th American Chemical Society Meeting**
August 2022 / McCormick Place Convention Center / Chicago / Illinois / United States
A Molecular Replication Process Drives Supramolecular Polymerization
- 16 Long Feng Science Forum**
August 2022 / Online
A Molecular Replication Process Drives Supramolecular Polymerization
- 15 Chemistry Graduate Recognition Ceremony and Reception**
June 2022 / Northwestern University / Evanston / Illinois / United States
PhD Student Representative Lecture
- 14 Stoddart Institute of Molecular Sciences International Meeting**
March 2022 / Online
A Molecular Replication Process Drives Supramolecular Polymerization
- 13 The Foresight Institute Nanotech Seminar Series**
February 2022 / Online
A Molecular Replication Process Drives Supramolecular Polymerization
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Oral Presentations (Continued)	12 Invited Talk by the Ti Lab at the University of California, Berkeley <i>December 2021 / University of California, Berkeley / Berkeley / California / United States</i> <i>The Rise and Promise of Artificial Molecular Machines</i>
	11 The Foresight Institute Vision Weekend <i>December 2021 / The Bird House / Berkeley / California / United States</i> <i>Foresight Institute Distinguished Student Award Acceptance Speech</i>
	10 The Foresight Institute Vision Weekend <i>December 2021 / Internet Archive / San Francisco / California / United States</i> <i>Will We Achieve Feynman's Vision for Molecular Machines? What's the Path ahead?</i>
	9 The Foresight Institute Workshop: Contemporary Materials Sciences – How can Molecular Machines Help? <i>September 2019 / Hilton Orrington / Evanston / Illinois / United States</i> <i>Turing-Universal Molecular Machines: Rotaxane Automata</i>
	8 Northwestern University Third-Year Organic Seminar Series <i>May 2019 / Northwestern University / Evanston / Illinois / United States</i> <i>A Self-Replicating Supramolecular Polymer</i>
	7 Global Young Talent Forum and the 2nd Sino-Foreign Postgraduates Exchange Forum <i>September 2018 / Beijing University of Chemical Technology / Beijing / China</i> <i>Four-Stroke Molecular Rotary Motors Based on [3]Catenanes</i>
	6 Seek Truth Salon <i>September 2018 / Beijing Institute of Technology / Beijing / China</i> <i>How I Played Chemistry: My Story of the Past Decade</i>
	5 The Foresight Institute Workshop: Integrated Molecular Machines: From Materials to Nanosystems <i>May 2018 / Washington University in St Louis / St Louis / Missouri / United States</i> <i>Nanofluidic Bearings</i>
	4 Tsinghua Spark Forum <i>October 2017 / Tsinghua University / Beijing / China</i> <i>Meet a Nobel Knight and a Tsinghua Adventurer Face-to-Face</i>
	3 A Golden Age of Chemistry Symposium <i>June 2017 / University of Nottingham / Nottinghamshire / Nottingham / United Kingdom</i> <i>A Single-Molecule Pump Based on Solid-State Nanopores</i>
	2 Chinese Youth Chemist Forum <i>May 2016 / Peking University / Beijing / China</i> <i>The Construction of a Sulfur Bridged Macrocyclic Host – S_6-Corona[n]arene</i>
	1 Chinese Youth Chemist Forum <i>May 2016 / Peking University / Beijing / China</i> <i>Student Representative Lecture at the Opening Remark</i>

Poster Presentations	23 Materials and Process Simulation Center Conference <i>March 2025 / California Institute of Technology / Pasadena / California / United States</i> <i>Manipulation of Cocrystals for Photothermal Conversion</i>
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Poster

**Presentations
(Continued)**

22 The 269th American Chemical Society Meeting

March 2025 / San Diego Convention Center / San Diego / California / United States
Manipulation of Cocrystals for Photothermal Conversion

21 The 3rd North American Supramolecular Chemistry Meeting

December 2022 / Hampton Inn & Suites New Orleans Convention Center /
New Orleans / Louisiana / United States
Manipulation of Cocrystals for NIR-II Photothermal Conversion

**20 The Advanced Materials for the Future of the Oklahoma Economy:
Challenges and Opportunities Symposium**

November 2024 / University of Oklahoma / Norman / Oklahoma / United States
*NIR-II Photothermal Conversion and Imaging Based on a Cocrystal containing
Twisted Components*

19 Great Plains Catalysis Society Symposium

August 2024 / University of Oklahoma / Norman / Oklahoma / United States
Molecular Replication and Polymerization Driven by Biomimicking Autocatalysis

**18 The 22nd Chinese National Symposium on Macrocyclic Chemistry and the
14th Chinese National Symposium on Supramolecular Chemistry**

July 2024 / Chenggong Yinyuan Hotel / Kunming / Yunnan / China
Four-Stroke Molecular Rotary Motors Based on [3]Catenanes

17 The 18th International Symposium of Macrocyclic and Supramolecular Chemistry

May 2024 / Hangzhou Blossom Water Museum Hotel / Hangzhou / Zhejiang / China
Near-Infrared Emission Organic Cocrystals Based on Twisted Component

16 The 2nd North American Supramolecular Chemistry Meeting

December 2023 / Loyola University / New Orleans / Louisiana / United States
Playing with Smart Molecules Together

15 Gordon Research Conference: Artificial Molecular Switches and Motors

June 2023 / Colby-Sawyer College / New London / New Hampshire / United States
Molecular Pumping in Water

14 The 1st North American Supramolecular Chemistry Meeting

December 2022 / Loyola University / New Orleans / Louisiana / United States
Alkoxy-Substituted Quadrupolar Fluorescent Dyes

13 The 5th World Laureates Forum

November 2022 / World Laureates Association / Shanghai / China and Online
Alkoxy-Substituted Quadrupolar Fluorescent Dyes

12 Gordon Research Conference on Systems Chemistry

June 2022 / Jordan Hotel at Sunday River / Newry / Maine / United States
Molecular Replication Process Drives Supramolecular Polymerization

11 The 16th International Symposium of Macrocyclic and Supramolecular Chemistry

June 2022 / University of Oregon / Eugene / Oregon / United States
A Molecular Replication Process Drives Supramolecular Polymerization

10 The 263rd American Chemical Society Meeting

March 2022 / San Diego Convention Center / San Diego / California / United States
Sustainable Artificial Molecular Pump Working for Unidirectional Transport

**Poster
Presentations
(Continued)**

- 9 The 4th World Laureates Forum**
November 2021 / World Laureates Association / Shanghai / China and Online
A Molecular Replication Process Drives Supramolecular Polymerization
- 8 Gordon Research Conference on Complex Active and Adaptive Material Systems**
January 2019 / Ventura Beach Marriott / Ventura / California / United States
A Molecular Dual Pump
- 7 Gordon Research Conference on Systems Chemistry**
July 2018 / Jordan Hotel at Sunday River / Newry / Maine / United States
Four-Stroke Molecular Rotary Motors Based on [3]Catenanes
- 6 The 13th International Symposium of Macrocyclic and Supramolecular Chemistry**
July 2018 / Centre des congrès de Québec / Québec City / Québec / Canada
Four-Stroke Molecular Rotary Motors Based on [3]Catenanes
- 5 Telluride Science Conference: Molecular Rotors, Motors, and Switches**
June 2018 / Telluride Science Research Center / Telluride / Colorado / United States
Four-Stroke Molecular Rotary Motors Based on [3]Catenanes
- 4 The ACS Publications Symposium: Innovation in Molecular Synthesis**
October 2017 / Shanghai Institute of Organic Chemistry / Shanghai / China
A Four-Stroke Rotary Motor Based on a [3]Catenane
- 3 The ACS Publications Symposium: Innovation in Molecular Synthesis**
October 2017 / Shanghai Institute of Organic Chemistry / Shanghai / China
Single-Molecule Pumps Based on Solid-State Nanopores
- 2 The 12th International Symposium of Macrocyclic and Supramolecular Chemistry**
July 2017 / University of Cambridge / Cambridgeshire / Cambridge / United Kingdom
Single-Molecule Pumps Based on Solid-State Nanopores
- 1 Gordon Research Conference: Artificial Molecular Switches and Motors**
June 2017 / Holderness School / Holderness / New Hampshire / United States
A Single-Molecule Pump Based on Solid-State Nanopores
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**Chair / Host
Conference
Sections**

- 12 Host** / Oklahoma Section of the American Chemical Society November Meeting
October 2025 / Oklahoma State University / Stillwater / Oklahoma / United States
Mira Kessler
- 11 Host** / Oklahoma Section of the American Chemical Society October Meeting
October 2025 / University of Oklahoma / Norman / Oklahoma / United States
Frank D Blum
- 10 Host** / Oklahoma Section of the American Chemical Society October Meeting
September 2025 / Oklahoma Baptist University / Shawnee / Oklahoma / United States
Carrie C P Farris
- 9 Host** / Oklahoma Section of the American Chemical Society March Meeting
March 2025 / Oklahoma State University-Oklahoma City / Oklahoma City / Oklahoma / United States
Idris Raji
- 8 Host and Inviter** / Karcher Honorary Lecture at the University of Oklahoma
November 2024 / University of Oklahoma / Norman / Oklahoma / United States
Peter J Stang
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Chair / Host Conference Sections	7 Section Chair / The 18th International Symposium of Macrocyclic and Supramolecular Chemistry <i>May 2024 / Hangzhou Blossom Water Museum Hotel / Hangzhou / Zhejiang / China</i> Teppei Yamada 山田 鉄兵 / Zhan-Ting Li 黎占亭 / Evgeny Kataev / Wen-Bin Zhang 张文彬 / Jochen Niemeyer / Qing-Zheng Yang 杨清正 / Yiyong Mai 麦亦勇 / Yongfeng Zhou 周永丰	
	6 Host / Oklahoma Section of the American Chemical Society April Meeting <i>April 2023 / University of Central Oklahoma / Edmund / Oklahoma / United States</i> Vivek K Bajpai	
	5 Host / Oklahoma Section of the American Chemical Society March Meeting <i>March 2023 / University of Oklahoma / Norman / Oklahoma / United States</i> Hyunho Noh 노현호	
	4 Section Chair / The 2nd North American Supramolecular Chemistry Meeting <i>December 2023 / Loyola University / New Orleans / Louisiana / United States</i> Kristin Bowman-James / Wenqi Liu 刘文奇 / Kejia Shi 拾可嘉 / Matthew Dixon	
	3 Host and Inviter / Karcher Honorary Lecture at the University of Oklahoma <i>November 2023 / University of Oklahoma / Norman / Oklahoma / United States</i> Jonathan L Sessler	
	2 Section Chair / The Conference of Promoting New Chemistry <i>September 2018 / Beijing Institute of Technology / Beijing / China</i> David A Leigh	
	1 Section Chair / The 2nd British–Chinese Symposium of Supramolecular Chemistry and Material Sciences <i>September 2018 / Zhejiang University / Hangzhou / Zhejiang / China</i> Zhichang Liu 刘志常 / Andrew C H Sue 苏纪豪 / J Fraser Stoddart	
Independent Mentorship (Continued)	39 BSc Student / Agya M Z Gaaro University of Oklahoma	2025–Now
	38 Graduate Research Assistant / Minghui Kong 孔明慧 University of Oklahoma	2025–Now
	37 BSc Student / Jennifer J Huang 黄瑾 University of Oklahoma	2025–Now
	36 BSc Student / Charlie Chen University of Oklahoma	2025–Now
	35 PhD Rotation Student / Omodolapo Precious Wahab University of Oklahoma	2025–Now
	34 PhD Rotation Student / Siri Froiland University of Oklahoma	2025–Now
	33 BSc Student / Isabel G Harlan University of Oklahoma	2025–Now
	32 BSc Student / Zainab Sajid University of Oklahoma	2025–Now

Independent Mentorship (Continued)	31 PhD Student / Jianqiao Zhou 周建乔 University of Oklahoma	2025-Now
	30 BSc Student / R Adelaide Schwabe University of Oklahoma	2025-Now
	29 BSc Student / Maham Saqib Saeed مهام صاقب سعيد University of Oklahoma	2025-Now
	28 Postdoctoral Research Associate / Xuanfu Zhu 朱烜甫 University of Oklahoma	2025-Now
	27 PhD Student / Nima Khaleghi نيماء خالقي University of Oklahoma	2025-Now
	26 BSc Student / Meiling Wade University of Oklahoma	2025-Now
	25 BSc Student / Moaz Asim معاذ عاصم University of Oklahoma	2024
	24 BSc Student / Joshua A Gottlieb University of Oklahoma	2024-Now
	23 BSc Student / Zaid Alkalani زيد الكيلاني University of Oklahoma	2024-Now
	22 BSc Student / Kade P Littlefield University of Oklahoma	2024-2025
	21 BSc Student / Kevin A Villalba-Orozco University of Oklahoma	2024-Now
	20 PhD Rotation Student / Yuheng Hu 胡宇恒 University of Oklahoma	2024
	19 BSc Student / Camille E Morrison University of Oklahoma	2024
	18 BSc Student / Aaron J Lim 임정섭 University of Oklahoma	2024-Now
	17 Graduate Research Assistant / Miguel A Liuzzi-Vaamonde University of Oklahoma	2024
	16 BSc Student + Graduate Research Assistant / Jennifer T Ou 吴晶丽 University of Oklahoma	2024-Now
	15 BSc Student / Mandisa K Masonya University of Oklahoma	2024
	14 BSc Student / Daniel A Appleton University of Oklahoma	2024-Now
	13 Postdoctoral Research Associate / Chenxin Ou 区晨昕 University of Oklahoma	2024
	12 BSc Student / Michelle N Cao Cao Nhã Anh University of Oklahoma	2024
	11 BSc Student / Sheridan K Munoz University of Oklahoma	2024

Independent Mentorship (Continued)	10 BSc Student / Niharika Ashutosh Sule निहारिका आशुतोष सुळे University of Oklahoma	2024-Now
	9 BSc Student + Graduate Research Assistant / Jim Y Huang 黄毅 University of Oklahoma	2023-2025
	8 BSc Student + Graduate Research Assistant / Jackson B Lancaster University of Oklahoma	2023-Now
	7 BSc Student / Natalie P Chapel University of Oklahoma	2023-2024
	6 PhD Rotation Student / Muhammad Sani Muhammad University of Oklahoma	2023
	5 BSc Student / Kiran N Naidu University of Oklahoma	2023-2024
	4 BSc Student / Ira Joseph Studebaker University of Oklahoma	2023-2025
	3 BSc Student + Graduate Research Assistant / Samantha A Mason University of Oklahoma	2023-Now
	2 PhD Rotation Student / Jacob B Solomon University of Oklahoma	2023
	1 PhD Rotation Student / Upasana Chatterjee উপাসনা চ্যাটার্জি University of Oklahoma	2023
Collaborative Mentorship	7 BSc Visiting Student / Saif Al Hashimi سيف آل هاشمي Colgate University	2025
	6 BSc Visiting Student / Huiru Yu 于蕙茹 Beijing Normal University / Co-Supervisor: Qing-Zheng Yang	2024
	5 PhD Visiting Student / Tao Li 李涛 Sun Yat-Sen University / Supervisor: Ming-Liang Tong 童明良	2023-2024
	4 PhD Visiting Peer Mentee / Chang-Xin Zhao 赵长欣 Tsinghua University / Supervisor: Qiang Zhang 张强	2023
	3 BSc Peer Mentee / Luke Malaisrie Northwestern University / Supervisor: J Fraser Stoddart	2022
	2 PhD Visiting Peer Mentee / Chi-Hsien Wang 王祺嫻 National Tsing Hua University / Supervisor: Masaki Horie 堀江 正樹	2022-2023
	1 BSc + PhD Visiting Peer Mentee / Christopher K Lee University of New South Wales / Supervisor: Dong Jun Kim	2020-2023
Course Teaching	3 BSc Course Instructor / Organic Chemistry I: Biological (Honors) University of Oklahoma / 23 Students	FA2025
	3 BSc Course Instructor / Organic Chemistry II: Biological (Honors) University of Oklahoma / 19 Students	SP2025
	2 PhD Course Instructor / Organic Chemistry I: Mechanism and Reactivity University of Oklahoma / 12 Students	FA2024

	1 PhD Course Instructor / Organic Chemistry I: Mechanism and Reactivity University of Oklahoma / 9 Students	FA2023
Course Supervising	15 PhD Course Supervisor / Seminar in Organic Chemistry University of Oklahoma / 14 Students	FA2025
	14 BSc Course Supervisor / First Year Research Experience Program University of Oklahoma / 1 Students	SP2025
	13 BSc Course Supervisor / Honors Research (Honors) University of Oklahoma / 3 Students	SP2025
	12 BSc Course Supervisor / Mentored Research Experience Program University of Oklahoma / 5 Students	SP2025
	11 PhD Course Supervisor / Seminar in Organic Chemistry University of Oklahoma / 12 Students	SP2025
Course Supervising (Continued)	10 BSc Course Supervisor / Honors Research (Honors) University of Oklahoma / 3 Students	FA2024
	9 BSc Course Supervisor / Honors Reading (Honors) University of Oklahoma / 1 Students	FA2024
	8 BSc Course Supervisor / Mentored Research Experience Program University of Oklahoma / 3 Students	FA2024
	7 PhD Course Supervisor / Seminar in Organic Chemistry University of Oklahoma / 10 Students	FA2024
	6 BSc Course Supervisor / First Year Research Experience Program University of Oklahoma / 3 Students	SP2024
	5 BSc Course Supervisor / Honors Research (Honors) University of Oklahoma / 2 Students	SP2024
	4 BSc Course Supervisor / Mentored Research Experience Program University of Oklahoma / 5 Students	SP2024
	3 PhD Course Supervisor / Seminar in Organic Chemistry University of Oklahoma / 13 Students	SP2024
	2 BSc Course Supervisor / Mentored Research Experience Program University of Oklahoma / 4 Students	FA2023
	1 PhD Course Supervisor / Seminar in Organic Chemistry University of Oklahoma / 10 Students	FA2023
Teaching Assistant	6 PhD Course Teaching Assistant / Contemporary Chemistry Northwestern University / Instructor: J Fraser Stoddart / 12 Students	WI2020
	5 PhD Course Teaching Assistant / Organic Spectroscopy Northwestern University / Instructor: Douglas Philp / 10 Students	WI2019
	4 BSc Course Teaching Assistant / Organic Chemistry Lab II Northwestern University / Instructor: Derek W Nelson / 16 Students	SU2017
	3 BSc Course Teaching Assistant / Organic Chemistry Lab I Northwestern University / Instructor: Derek W Nelson / 16 Students	WI2017
	2 BSc Course Teaching Assistant / General Chemistry Lab I Northwestern University / Instructor: Stephanie N Knezz / 16 Students	FA2016

	1 BSc Course Teaching Assistant / General Chemistry Recitation I Northwestern University / Instructor: Veronica M Berns / 9 Students	FA2016
University Service	16 University Chinese Student Association Faculty Supervisor President: Alayna Leck / University of Oklahoma	2025-Now
	15 Friends to International Students Program Host Student: Anqi Fan 樊岸奇 / University of Oklahoma	2025-Now
	14 Department Seminar Committee Member Department of Chemistry & Biochemistry / University of Oklahoma	2025-Now
	13 PreMedical Professions Committee Member Academic Advising Resource Center / University of Oklahoma	2025-Now
	12 Friends to International Students Program Host Student: Luyu Niu 牛鲁豫 / University of Oklahoma	2025
	11 Department Graduate Recruiting Committee Member Department of Chemistry & Biochemistry / University of Oklahoma	2024-Now
	10 Department Social Media Committee Chair Department of Chemistry & Biochemistry / University of Oklahoma	2024-Now
	9 Department NMR Spectroscopy Advisory Committee Member Department of Chemistry & Biochemistry / University of Oklahoma	2024-Now
	8 Department Organic Chemistry Teaching Committee Member Department of Chemistry & Biochemistry / University of Oklahoma	2024-Now
	7 University Cooking Club Faculty Supervisor President: Aaron J Lim / University of Oklahoma	2024-Now
	6 Friends to International Students Program Host Student: Junhua Chen 陈俊华 / University of Oklahoma	2024
	5 Department Faculty Meeting Secretary Department of Chemistry & Biochemistry / University of Oklahoma	2023-2024
	4 Department Safety Committee Member Department of Chemistry & Biochemistry / University of Oklahoma	2023-2024
	3 Friends to International Students Program Host Student: Han Yi 易晗 / University of Oklahoma	2024
	2 PreMedical Professions Committee Member Academic Advising Resource Center / University of Oklahoma	2024
	1 Friends to International Students Program Host Student: Luyu Niu / University of Oklahoma	2023
Student Committee	12 PhD Committee Member / Student: Prabhat Kharel Chair: Indrajeet Sharma / University of Oklahoma	2025-Now
	11 PhD Committee Member / Student: Daniel A Nelson Chair: Indrajeet Sharma / University of Oklahoma	2025-Now
	10 PhD Committee Member / Student: Ghath Al Hafez Chair: Michele Galizia / University of Oklahoma	2024-Now
	9 PhD Committee Member / Student: M Sri Abey Vignesh Chair: Steven P Crossley / University of Oklahoma	2024-Now

	8 PhD Committee Member / Student: Fatemeh Naderi Samani Chair: Reza Foudazi / University of Oklahoma	2024–Now
	7 PhD Committee Member / Student: Jacob B Solomon Chair: Shikha Singh Chauhan / University of Oklahoma	2024–Now
	6 PhD Committee Member / Student: Umesh Chaudhary Chair: Indrajeet Sharma / University of Oklahoma	2024–Now
	5 PhD Committee Member / Student: Daniel E Walker Chair: Shanteri Singh / University of Oklahoma	2024–Now
	4 PhD Committee Member / Student: Dan Chen 湛丹 Chair: Zhibo Yang 杨志柏 / University of Oklahoma	2023–Now
	3 MSc Committee Member / Student: Daniel C McSwain Chair: Charles V Rice / University of Oklahoma	2024–2025
	2 MSc Committee Member / Student: Alexis N Rinne Chair: Robert H Cichewicz II / University of Oklahoma	2023–2024
	1 MSc Committee Member / Student: Heather E McClurg Chair: Robert H Cichewicz II / University of Oklahoma	2023–2024
Nominated or Mentored Achievement	12 Honors Research Assistant Program (HRAP) Honors College / Mentee: Aaron J Lim	2025
	11 Harvard-MIT Summer Institute Best Oral Presentation Award Harvard Medical School / Mentee: Aaron J Lim	2025
	10 Herbert A and Lela Mitchell Berlin Endowed Scholarship Dodge Family College of Arts and Sciences / Mentee: Aaron J Lim	2025
	9 Dr Floyd E Farha Excellence in Chemistry Scholarship Department of Chemistry & Biochemistry / Mentee: Aaron J Lim	2025
	8 Dodge Family College of Arts and Sciences Academic Scholar Award Dodge Family College of Arts and Sciences / Mentee: Aaron J Lim	2025
	7 President’s Award for Outstanding Sophomores University of Oklahoma / Mentee: Aaron J Lim	2025
	6 McNair Scholars Program United States Department of Education / Mentee: Kevin A Villalba-Orozco	2024
	5 Research Showcase Best Undergraduate Poster Award Department of Chemistry & Biochemistry / Mentees: Samantha A Mason Jackson B Lancaster Aaron J Lim	2024
	4 Dick Van der Helm Scholarship Department of Chemistry & Biochemistry / Mentee: Samantha A Mason	2024
	3 Dalton Transactions Poster Award University of Oregon / Mentee: Chi-Hsien Wang	2022
	2 The Foresight Fellowship The Foresight Institute / Nominee: James S W Seale	2022
	1 The Foresight Fellowship The Foresight Institute / Nominee: Marco A Ovalle-Martinez	2022

Recommended or Supported Promotion	8 Postdoctoral Fellowship in the Hayward Group	2025
	University of Colorado Boulder / Surojit Bhunia	
	7 Undergraduate Research Internship in the Hasan Group	2025
	Harvard Medical School / Aaron J Lim	
	6 Undergraduate Research Internship in the Wasielewski Group	2024
	Northwestern University / Huiru Yu	
	5 Doctoral of Philosophy Program Admission	2023
	University of Hong Kong / Pramita Kundu	
	4 Postdoctoral Fellowship in the Stoddart Group	2023
	University of Hong Kong / Yi-Kang Xing 邢益康	
	3 Postdoctoral Fellowship in the Stoddart Group	2023
	University of Hong Kong / Bai-Tong Liu 刘百桐	
	2 Postdoctoral Fellowship in the Moore Group	2023
	University of Illinois Urbana-Champaign / Fangbai Xie 谢芳柏	
	1 Undergraduate Program Admission	2022
	Northwestern University / Eric Tianrun Yang 杨天润	

Mentored Presentations P: Postdoc G: Graduate U: Undergrad S: Student A: Associate / Assistant V: Visiting	18 The 76th Southeastern and 81st Southwest Joint Regional Meeting of the American Chemical Society	
	October 2025 / DoubleTree by Hilton Orlando at SeaWorld / Orlando / Florida / United States	
	Poster: Ou, J. T. (GA); Wade, M. (US); Lancaster, J. B. (GA) <i>The Design and Synthesis of Pentagonal and Hexagonal Cyclophanes</i>	
	17 Departmental Research Showcase	
	September 2025 / University of Oklahoma / Norman / Oklahoma / United States	
	Poster: Lim, A. J. (US) <i>Photodynamic Modulation of Stellate Cell Differentiation in a 3D Organoid Model of Pancreatic Cancer</i>	
	16 Departmental Research Showcase	
	September 2025 / University of Oklahoma / Norman / Oklahoma / United States	
	Poster: Mason, S. A. (US); Schwabe, R. A. (US) <i>The Design and Synthesis of Quadrupolar Fluorescent Dyes</i>	
	15 Departmental Research Showcase	
	September 2025 / University of Oklahoma / Norman / Oklahoma / United States	
	Poster: Ou, J. T. (US); Saeed, M. S. (US) <i>The Design and Synthesis of Pentagonal and Hexagonal Cyclophanes</i>	
	14 Harvard-MIT Summer Institute in Biomedical Optics Program Symposium	
	August 2025 / Harvard Medical School / Boston / Massachusetts / United States	
	Poster: Lim, A. J. (US) <i>Photodynamic Modulation of Stellate Cell Differentiation in a 3D Organoid Model of Pancreatic Cancer</i>	
	13 The 37th OU Honors College Annual Undergraduate Research Day	
	April 2025 / University of Oklahoma / Norman / Oklahoma / United States	
	Poster: Ou, J. T. (US); Wade, M. (US) <i>The Design and Synthesis of Pentagonal and Hexagonal Cyclophanes</i>	

**Mentored
Presentations
(Continued)**

12 The 3rd OUHSC Graduate College Unity Week Poster Hall

April 2025 / University of Oklahoma Health Sciences Center / Oklahoma City / Oklahoma / United States

Poster: Ou, J. T. (US); Wade, M. (US) *The Design and Synthesis of Pentagonal and Hexagonal Cyclophanes*

11 The 80th American Chemical Society Southwest Regional Meeting

October 2024 / Waco Convention Center / Waco / Texas / United States

Poster: Mason, S. A. (US); Lancaster, J. B. (US); Lim, A. J. (US) *The Design and Synthesis of Quadrupolar Fluorescent Dyes*

10 The 80th American Chemical Society Southwest Regional Meeting

October 2024 / Waco Convention Center / Waco / Texas / United States

Poster: Ou, C. (PA) *The Design of a Molecular Motor based on a Redox Switchable Aminoxyl Ring*

9 Departmental Research Showcase

August 2024 / University of Oklahoma / Norman / Oklahoma / United States

Poster: Mason, S. A. (US); Lancaster, J. B. (US); Lim, A. J. (US) *The Design and Synthesis of Quadrupolar Fluorescent Dyes*

8 Departmental Research Showcase

August 2024 / University of Oklahoma / Norman / Oklahoma / United States

Poster: Ou, C. (PA) *Four-Stroke Molecular Rotary Motors based on [3]Catenanes*

7 The 36th OU Honors College Annual Undergraduate Research Day

May 2024 / University of Oklahoma / Norman / Oklahoma / United States

Poster: Cao, M. N. (US) *Synthesis of a 5-Membered Cyclophane*

6 The 36th OU Honors College Annual Undergraduate Research Day

May 2024 / University of Oklahoma / Norman / Oklahoma / United States

Poster: Munoz, S. K. (US) *Synthesizing Pentagonal Macrocycles*

5 The 36th OU Honors College Annual Undergraduate Research Day

May 2024 / University of Oklahoma / Norman / Oklahoma / United States

Poster: Sule, N. A. (US) *Supramolecular Antenna Effect in Fluorescent Dyes*

4 Invited Talk by the OU Math Club at the University of Oklahoma

March 2024 / University of Oklahoma / Norman / Oklahoma / United States

Oral: Lancaster, J. B. (US); Yu, H. (VUS) *Tying the Tiniest Knot and Weaving the Thinnest Fabric*

3 The 2nd North American Supramolecular Chemistry Meeting

December 2023 / Loyola University / New Orleans / Louisiana / United States

Poster: Mason, S. A. (US); Chapel, N. P. (US); Lancaster, J. B. (US) *A Molecular Replication Process Drives Supramolecular Polymerization.*

2 The 2nd North American Supramolecular Chemistry Meeting

December 2023 / Loyola University / New Orleans / Louisiana / United States

Poster: Li, T. (VGS) *NIR-II Photothermal Conversion and Imaging Based on a Cocrystal containing Twisted Components.*

Mentored Presentations (Continued) **1 The 2nd North American Supramolecular Chemistry Meeting**
December 2023 / Loyola University / New Orleans / Louisiana / United States
Poster: Muhammad, M. S. (GS) *A Four Stroke Molecular Motor Based on a [3]Catenane.*

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