

# Yuanning Feng

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

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

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

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

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<b>Selected Awards and Fellowships</b>	<b>Chemical Abstracts Service Future Leaders Top 100</b>	2023
	For early-career scientists worldwide with science leadership potential	
	<b>International Institute for Nanotechnology Outstanding Researcher Award</b>	2022
	For researchers representing the future of nanotechnology research	
	<b>Chinese Government Award for Outstanding Self-Finance Students Abroad</b>	2022
	The highest governmental award to Chinese graduate students studying abroad	

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<b>Academic Activities</b>	<b>50 Publications</b> including: <b>2</b> <i>Science</i>   <b>2</b> <i>Nature</i>   <b>20</b> <i>J. Am. Chem. Soc.</i>   <b>5</b> <i>Chem</i>	
	<b>3</b> <i>Chem. Sci.</i>   <b>3</b> <i>Angew. Chem. Int. Ed.</i>   <b>2</b> <i>CCS Chem.</i>   <i>Matter</i>   <i>Nat. Chem. Eng.</i>	
	<i>Nat. Synth.</i>   <i>Nat. Commun.</i>   <i>Proc. Natl. Acad. Sci. U.S.A.</i>   <i>Chem. Soc. Rev.</i>	
	<i>Mater. Chem. Front.</i>   <i>Trend Chem.</i>   <i>ACS Cent. Sci.</i>   <i>ACS Nano</i>   <i>Sci. China Chem.</i>	
	<b>9 Peer-Reviews</b> including: <b>4</b> <i>J. Am. Chem. Soc.</i>   <i>J. Phys. Chem. Lett.</i>   <i>STAR Protoc.</i>	
	<i>J. Mol. Struct.</i>   <i>Isr. J. Chem.</i>   <i>Sci. China Chem.</i>	
	<b>73 Public Presentations</b> including: <b>52</b> Talks   <b>21</b> Posters	
<b>34 Mentoring</b> including: <b>2</b> Postdoc   <b>1</b> Doctoral   <b>20</b> Bachelor   <b>11</b> Short or Visiting		
<b>17 Courses</b> including: <b>3</b> Lecture   <b>8</b> Supervision   <b>6</b> Teaching Assistant		
<b>Chair</b> for the 2025 Oklahoma Section of the American Chemical Society		
<b>Early Career Board Member</b> of <i>Precis. Chem.</i>		

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

<b>Full List of Publications</b>	54 Lee, C. K.; <b>Feng, Y.*</b> ; Violi, J. P.; Donald, W. A.; Stoddart, J. F.*; Kim, D. J.* Operating Artificial Molecular Pumps in Water. <i>Chem</i> <b>2025</b> , 12, Submitted
	#Equal Contribution 53 Li, T.#; Liu, B.-T.#; Liu, J.-C.; Sule, N. A.; Ou, J. T.; Huang, J. Y.; Ou, C.; Jia, J.-H.*; *Corresponding Author <b>Feng, Y.*</b> Near-Infrared Emission in Organic Cocrystals Based on Twisted-Component Pseudo-Encapsulation. <i>ACS Mater. Lett.</i> <b>2025</b> , Submitted
	52 Wu, G.; Park, J.; Liu, W.-G.; Jiao, Y.; Zhang, L.; Han, H.; Tang, C.; Jang, T.; Kim, M.; Song, B.; Li, X.; Zhang, R.; Wu, H.; Wu, Y.; Zhao, X.; <b>Feng, Y.</b> ; Li, Q.; Astumian, R. D.*; Goddard III, W. A.*; Stoddart, J. F.* An Artificial Molecular Pump Operating in Water. <i>Nat. Nanotechnol.</i> <b>2025</b> , Under Review

**Full List of  
Publications  
(Continued)**

**#Equal Contribution**

**\*Corresponding Author**

- 51 Huang, J. Y.; Yu, H.; Lim, A. J.; **Feng, Y.\*** Homochirality and Self-Replication promoted by Supramolecular Recognition. *Beilstein J. Org. Chem.* **2025**, Under Review
- 50** Tang, C.; Young, R. M.; Almunif, S.; Das, P. J.; Zhang, R.\*; Wu, G.; Han, H.; Zhao, X.; David, A. H. G.; Wu, H.; Song, B.; Wu, Y.; **Feng, Y.**; Bhunia, S.; 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**, Accepted
- 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.

**Full List of  
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.\* Photoscience 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.

**Full List of  
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.

**Full List of  
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.

<b>Peer Review</b>	<b>9 Science China Chemistry</b> / scc-2024-0786	2024
	Springer / Associate Editor: Ben Zhong Tang   唐本忠	
	<b>8 Journal of the American Chemical Society</b> / ja-2024-05376b	2024
	ACS Publications / Associate Editor: Omar M Yaghi	
	<b>7 Israel Journal of Chemistry</b> / ijch.202400025	2024
	Wiley-VCH / Guest Editor: Víctor García-López	
	<b>6 STAR Protocols</b> / star-protocols-d-24-00033	2024
	Cell Press / Scientific Editor: Leila Shokri	
	<b>5 Journal of the American Chemical Society</b> / ja-2023-14200r	2024
ACS Publications / Associate Editor: Omar M Yaghi		
<b>4 Journal of Molecular Structure</b> / molstruc-d-23-07696	2023	
Elsevier ScienceDirect / Editor: Luca Evangelisti		
<b>3 Journal of the American Chemical Society</b> / ja-2023-08630y	2023	
ACS Publications / Associate Editor: Omar M Yaghi		
<b>2 Journal of Physical Chemistry Letters</b> / jz-2022-02960j	2022	
ACS Publications / Senior Editor: Haizheng Zhong   钟海政		
<b>1 Journal of the American Chemical Society</b> / ja-2021-09385x	2021	
ACS Publications / Associate Editor: Omar M Yaghi		

<b>Academic Affiliation</b>	<b>3 Private Grant Advisor</b>	2025-Now
	Molecular Nanotechnology Fast Grant / Foresight Institute	
	<b>2 Society Local Section Chair</b>	2025-Now
Oklahoma Section of the American Chemical Society		
<b>1 Early Career Board</b>		2024-Now
Precision Chemistry / ACS Publications		

<b>Oral Presentations</b>	<b>52 Fraser Stoddart Memorial Meeting</b>	
	<i>February 2024 / The Standing Order / Edinburgh / United Kingdom</i>	
	<i>In Memorial of My Dearest Mentor – Fraser Stoddart</i>	
	<b>51 Invited Talk by the OU Society of Asian Scientists and Engineers</b>	
	<i>November 2024 / University of Oklahoma / Norman / Oklahoma / United States</i>	
	<i>From a Student to a Professor –My Story with Chemistry over the Past 15 Years</i>	
<b>50 The 80th American Chemical Society Southwest Regional Meeting</b>		
<i>October 2024 / Waco Convention Center / Waco / Texas / United States</i>		
<i>Molecular Motors Driven by Electrons and Protons</i>		
<b>49 Molecular Machinery: Modelling, Making, Measuring Meeting</b>		
<i>September 2024 / Fortress of Bertinoro / Bertinoro / Emilia-Romagna / Italy</i>		
<i>Molecular Motors Driven by Electrons and Protons</i>		
<b>48 New PhD Students Welcome Seminar in the Department of Chemistry and Biochemistry at the University of Oklahoma</b>		
<i>August 2024 / University of Oklahoma / Norman / Oklahoma / United States</i>		
<i>Joining Yuanning Feng Research Group to Play with Smart Molecules Together</i>		

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**Oral  
Presentations  
(Continued)**

**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*

**38 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*

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**Oral  
Presentations  
(Continued)**

- 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 Quinoa Mini Salon 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*
- 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*
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**Oral  
Presentations  
(Continued)**

**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*

**12 Invited Talk by the Ti Lab at the University of California, Berkeley**

December 2021 / University of California, Berkeley / Berkeley / California / United States  
*The Rise and Promise of Artificial Molecular Machines*

**11 The Foresight Institute Vision Weekend**

December 2021 / The Bird House / Berkeley / California / United States  
*Foresight Institute Distinguished Student Award Acceptance Speech*

**10 The Foresight Institute Vision Weekend**

December 2021 / Internet Archive / San Francisco / California / United States  
*Will We Achieve Feynman's Vision for Molecular Machines? What's the Path ahead?*

**9 The Foresight Institute Workshop: Contemporary Materials Sciences – How can Molecular Machines Help?**

September 2019 / Hilton Orrington / Evanston / Illinois / United States  
*Turing-Universal Molecular Machines: Rotaxane Automata*

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**Oral  
Presentations  
(Continued)**

- 8 Northwestern University Third-Year Organic Seminar Series**  
*May 2019 / Northwestern University / Evanston / Illinois / United States*  
*A Self-Replicating Supramolecular Polymer*
- 7 Global Young Talent Forum and the 2nd Sino-Foreign Postgraduates Exchange Forum**  
*September 2018 / Beijing University of Chemical Technology / Beijing / China*  
*Four-Stroke Molecular Rotary Motors Based on [3]Catenanes*
- 6 Seek Truth Salon**  
*September 2018 / Beijing Institute of Technology / Beijing / China*  
*How I Played Chemistry: My Story of the Past Decade*
- 5 The Foresight Institute Workshop: Integrated Molecular Machines: From Materials to Nanosystems**  
*May 2018 / Washington University in St Louis / St Louis / Missouri / United States*  
*Nanofluidic Bearings*
- 4 Tsinghua Spark Forum**  
*October 2017 / Tsinghua University / Beijing / China*  
*Meet a Nobel Knight and a Tsinghua Adventurer Face-to-Face*
- 3 A Golden Age of Chemistry Symposium**  
*June 2017 / University of Nottingham / Nottinghamshire / Nottingham / United Kingdom*  
*A Single-Molecule Pump Based on Solid-State Nanopores*
- 2 Chinese Youth Chemist Forum**  
*May 2016 / Peking University / Beijing / China*  
*The Construction of a Sulfur Bridged Macrocyclic Host –  $S_6$ -Corona[n]arene*
- 1 Chinese Youth Chemist Forum**  
*May 2016 / Peking University / Beijing / China*  
*Student Representative Lecture at the Opening Remark*
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**Poster  
Presentations**

- 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*
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**Poster  
Presentations  
(Continued)**

- 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*
- 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 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*

<b>Poster Presentations (Continued)</b>	<b>4 The ACS Publications Symposium: Innovation in Molecular Synthesis</b> <i>October 2017 / Shanghai Institute of Organic Chemistry / Shanghai / China</i> <i>A Four-Stroke Rotary Motor Based on a [3]Catenane</i>	
	<b>3 The ACS Publications Symposium: Innovation in Molecular Synthesis</b> <i>October 2017 / Shanghai Institute of Organic Chemistry / Shanghai / China</i> <i>Single-Molecule Pumps Based on Solid-State Nanopores</i>	
	<b>2 The 12th International Symposium of Macrocyclic and Supramolecular Chemistry</b> <i>July 2017 / University of Cambridge / Cambridgeshire / Cambridge / United Kingdom</i> <i>Single-Molecule Pumps Based on Solid-State Nanopores</i>	
	<b>1 Gordon Research Conference: Artificial Molecular Switches and Motors</b> <i>June 2017 / Holderness School / Holderness / New Hampshire / United States</i> <i>A Single-Molecule Pump Based on Solid-State Nanopores</i>	
	<b>Chair / Host Conference Sections</b>	
<b>8 Host and Inviter</b> / Karcher Honorary Lecture at the University of Oklahoma <i>November 2024 / University of Oklahoma / Norman / Oklahoma / United States</i> Peter J Stang		
<b>7 Section Chair</b> / 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		
<b>6 Host</b> / Oklahoma Section of the American Chemical Society April Meeting <i>April 2023 / University of Central Oklahoma / Edmund / Oklahoma / United States</i> Vivek K Bajpai		
<b>5 Host</b> / Oklahoma Section of the American Chemical Society March Meeting <i>March 2023 / University of Oklahoma / Norman / Oklahoma / United States</i> Hyunho Noh   노현호		
<b>4 Section Chair</b> / 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		
<b>3 Host and Inviter</b> / Karcher Honorary Lecture at the University of Oklahoma <i>November 2023 / University of Oklahoma / Norman / Oklahoma / United States</i> Jonathan L Sessler		
<b>2 Section Chair</b> / The Conference of Promoting New Chemistry <i>September 2018 / Beijing Institute of Technology / Beijing / China</i> David A Leigh		
<b>1 Section Chair</b> / 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		
<b>Independent Mentorship</b>	<b>28 Postdoctoral Research Associate</b> / Xuanfu Zhu   朱烜甫 University of Oklahoma	2025–Now

<b>Independent Mentorship (Continued)</b>	<b>27 PhD Student</b> / Nima Khaleghi   نینما خالقی	2025-Now
	University of Oklahoma	
	<b>26 BSc Student</b> / Meiling Wade	2025-Now
	University of Oklahoma	
	<b>25 BSc Student</b> / Moaz Asim   معاذ عاصم	2024
	University of Oklahoma	
	<b>24 BSc Student</b> / Joshua A Gottlieb	2024-Now
	University of Oklahoma	
	<b>23 BSc Student</b> / Zaid Alkalani   زيد الكيلاني	2024-Now
	University of Oklahoma	
	<b>22 BSc Student</b> / Kade P Littlefield	2024-Now
	University of Oklahoma	
	<b>21 BSc Student</b> / Kevin A Villalba-Orozco	2024-Now
	University of Oklahoma	
	<b>20 PhD Rotation Student</b> / Yuheng Hu   胡宇恒	2024
	University of Oklahoma	
	<b>19 BSc Student</b> / Camille E Morrison	2024
	University of Oklahoma	
	<b>18 BSc Student</b> / Aaron J Lim   임정섭	2024-Now
	University of Oklahoma	
<b>17 Graduate Research Assistant</b> / Miguel A Liuzzi-Vaamonde	2024	
University of Oklahoma		
<b>16 BSc Student</b> / Jennifer T Ou   吳晶麗	2024-Now	
University of Oklahoma		
<b>15 BSc Student</b> / Mandisa K Masonya	2024	
University of Oklahoma		
<b>14 BSc Student</b> / Daniel A Appleton	2024-Now	
University of Oklahoma		
<b>13 Postdoctoral Research Associate</b> / Chenxin Ou   區晨昕	2024	
University of Oklahoma		
<b>12 BSc Student</b> / Michelle N Cao   Cao Nhã Anh	2024	
University of Oklahoma		
<b>11 BSc Student</b> / Sheridan K Munoz	2024	
University of Oklahoma		
<b>10 BSc Student</b> / Niharika Ashutosh Sule   निहारिका आशुतोष सुळे	2024-Now	
University of Oklahoma		
<b>9 BSc Student + Graduate Research Assistant</b> / Jim Y Huang   黃毅	2023-Now	
University of Oklahoma		
<b>8 BSc Student</b> / Jackson B Lancaster	2023-Now	
University of Oklahoma		
<b>7 BSc Student</b> / Natalie P Chapel	2023-2024	
University of Oklahoma		

<b>Independent Mentorship (Continued)</b>	<b>6 PhD Rotation Student</b> / Muhammad Sani Muhammad University of Oklahoma	2023
	<b>5 BSc Student</b> / Kiran N Naidu University of Oklahoma	2023-2024
	<b>4 BSc Student</b> / Ira J Studebaker University of Oklahoma	2023-Now
	<b>3 BSc Student + Graduate Research Assistant</b> / Samantha A Mason University of Oklahoma	2023-Now
	<b>2 PhD Rotation Student</b> / Jacob B Solomon University of Oklahoma	2023
	<b>1 PhD Rotation Student</b> / Upasana Chatterjee   উপাসনা চ্যাটার্জি University of Oklahoma	2023
<b>Collaborative Mentorship</b>	<b>6 BSc Visiting Student</b> / Huiru Yu   于蕙茹 Beijing Normal University / Co-Supervisor: Qing-Zheng Yang Northwestern University / Co-Supervisor: Michael R Wasielewski	2024
	<b>5 PhD Visiting Student</b> / Tao Li   李涛 Sun Yat-Sen University / Supervisor: Ming-Liang Tong   童明良	2023-2024
	<b>4 PhD Visiting Peer Mentee</b> / Chang-Xin Zhao   赵长欣 Tsinghua University / Supervisor: Qiang Zhang   张强	2023
	<b>3 BSc Peer Mentee</b> / Luke Malaisrie Northwestern University / Supervisor: J Fraser Stoddart	2022
	<b>2 PhD Visiting Peer Mentee</b> / Chi-Hsien Wang   王祺嫻 National Tsing Hua University / Supervisor: Masaki Horie   堀江 正樹	2022-2023
	<b>1 BSc + PhD Visiting Peer Mentee</b> / Christopher K Lee University of New South Wales / Supervisor: Dong Jun Kim	2020-2023
<b>Course Teaching</b>	<b>3 BSc Course Instructor</b> / Organic Chemistry II: Biological Emphasis (Honors) University of Oklahoma / 23 Students	SP2025
	<b>2 PhD Course Instructor</b> / Organic Chemistry I: Mechanism and Reactivity University of Oklahoma / 13 Students	FA2024
	<b>1 PhD Course Instructor</b> / Organic Chemistry I: Mechanism and Reactivity University of Oklahoma / 9 Students	FA2023
<b>Course Supervising</b>	<b>14 BSc Course Supervisor</b> / First Year Research Experience Program University of Oklahoma / 1 Students	SP2025
	<b>13 BSc Course Supervisor</b> / Honors Research (Honors) University of Oklahoma / 3 Students	SP2025
	<b>12 BSc Course Supervisor</b> / Mentored Research Experience Program University of Oklahoma / 5 Students	SP2025
	<b>11 PhD Course Supervisor</b> / Seminar in Organic Chemistry University of Oklahoma / 13 Students	SP2025
	<b>10 BSc Course Supervisor</b> / Honors Research (Honors) University of Oklahoma / 3 Students	FA2024

<b>Course Supervising (Continued)</b>	<b>9 BSc Course Supervisor</b> / Honors Reading (Honors) University of Oklahoma / 1 Students	FA2024
	<b>8 BSc Course Supervisor</b> / Mentored Research Experience Program University of Oklahoma / 3 Students	FA2024
	<b>7 PhD Course Supervisor</b> / Seminar in Organic Chemistry University of Oklahoma / 10 Students	FA2024
	<b>6 BSc Course Supervisor</b> / First Year Research Experience Program University of Oklahoma / 3 Students	SP2024
	<b>5 BSc Course Supervisor</b> / Honors Research (Honors) University of Oklahoma / 2 Students	SP2024
	<b>4 BSc Course Supervisor</b> / Mentored Research Experience Program University of Oklahoma / 5 Students	SP2024
	<b>3 PhD Course Supervisor</b> / Seminar in Organic Chemistry University of Oklahoma / 13 Students	SP2024
	<b>2 BSc Course Supervisor</b> / Mentored Research Experience Program University of Oklahoma / 4 Students	FA2023
	<b>1 PhD Course Supervisor</b> / Seminar in Organic Chemistry University of Oklahoma / 10 Students	FA2023

<b>Teaching Assistant</b>	<b>6 PhD Course Teaching Assistant</b> / Contemporary Chemistry Northwestern University / Instructor: J Fraser Stoddart / 12 Students	WI2020
	<b>5 PhD Course Teaching Assistant</b> / Organic Spectroscopy Northwestern University / Instructor: Douglas Philp / 10 Students	WI2019
	<b>4 BSc Course Teaching Assistant</b> / Organic Chemistry Lab II Northwestern University / Instructor: Derek W Nelson / 16 Students	SU2017
	<b>3 BSc Course Teaching Assistant</b> / Organic Chemistry Lab I Northwestern University / Instructor: Derek W Nelson / 16 Students	WI2017
	<b>2 BSc Course Teaching Assistant</b> / General Chemistry Lab I Northwestern University / Instructor: Stephanie N Knezz / 16 Students	FA2016
	<b>1 BSc Course Teaching Assistant</b> / General Chemistry Recitation I Northwestern University / Instructor: Veronica M Berns / 9 Students	FA2016

<b>University Service</b>	<b>13 PreMedical Professions Committee Member</b> Academic Advising Resource Center / University of Oklahoma	2025-Now
	<b>12 Friends to International Students Program Host</b> University of Oklahoma / Student: Luyu Niu   牛鲁豫	2025-Now
	<b>11 Department Graduate Recruiting Committee Member</b> Chemistry and Biochemistry / University of Oklahoma	2024-Now
	<b>10 Department Social Media Committee Chair</b> Chemistry and Biochemistry / University of Oklahoma	2024-Now
	<b>9 Department NMR Spectroscopy Advisory Committee Member</b> Chemistry and Biochemistry / University of Oklahoma	2024-Now
	<b>8 Department Organic Chemistry Teaching Committee Member</b> Chemistry and Biochemistry / University of Oklahoma	2024-Now



<b>University Service (Continued)</b>	<b>7 University Cooking Club Supervisor</b>	2024–Now
	University of Oklahoma / President: Aaron J Lim	
	<b>6 Friends to International Students Program Host</b>	2024
	University of Oklahoma / Student: Junhua Chen   陈俊华	
	<b>5 Department Faculty Meeting Secretary</b>	2023–2024
	Chemistry and Biochemistry / University of Oklahoma	
	<b>4 Department Safety Committee Member</b>	2023–2024
Chemistry and Biochemistry / University of Oklahoma		
<b>3 Friends to International Students Program Host</b>	2024	
University of Oklahoma / Student: Han Yi   易晗		
<b>2 PreMedical Professions Committee Member</b>	2024	
Academic Advising Resource Center / University of Oklahoma		
<b>1 Friends to International Students Program Host</b>	2023	
University of Oklahoma / Student: Luyu Niu   牛鲁豫		

<b>Student Committee</b>	<b>10 PhD Committee Member</b> / Student: Ghath Al Hafez	2024–Now
	University of Oklahoma / Chair: Michele Galizia	
	<b>9 PhD Committee Member</b> / Student: M Sri Abey Vignesh	2024–Now
	University of Oklahoma / Chair: Steven P Crossley	
	<b>8 PhD Committee Member</b> / Student: Fatemeh Naderi Samani	2024–Now
	University of Oklahoma / Chair: Reza Foudazi	
	<b>7 PhD Committee Member</b> / Student: Jacob B Solomon	2024–Now
	University of Oklahoma / Chair: Shikha Singh Chauhan	
	<b>6 PhD Committee Member</b> / Student: Umesh Chaudhary	2024–Now
	University of Oklahoma / Chair: Indrajeet Sharma	
<b>5 PhD Committee Member</b> / Student: Daniel E Walker	2024–Now	
University of Oklahoma / Chair: Charlies V Rice		
<b>4 PhD Committee Member</b> / Student: Dan Chen   谌丹	2023–Now	
University of Oklahoma / Chair: Zhibo Yang   杨志柏		
<b>3 PhD Committee Member</b> / Student: Daniel C McSwain	2024	
University of Oklahoma / Chair: Robert H Cichewicz II		
<b>2 PhD Committee Member</b> / Student: Alexis N Rinne	2023–2024	
University of Oklahoma / Chair: Robert H Cichewicz II		
<b>1 PhD Committee Member</b> / Student: Heather E McClurg	2023–2024	
University of Oklahoma / Chair: Robert H Cichewicz II		

<b>Nominated or Mentored Achievement</b>	<b>6 McNair Scholars Program</b>	2024
	United States Department of Education / Mentee: Kevin A Villalba-Orozco	
	<b>5 Best Undergraduate Poster Award at Department Research Showcase</b>	2024
University of Oklahoma / Mentees: Samantha A Mason   Jackson B Lancaster   Aaron J Lim		
<b>4 Dick Van der Helm Scholarship</b>	2024	
University of Oklahoma / Mentee: Samantha A Mason		

<b>Nominated or Mentored Achievement (Continued)</b>	<b>3 Dalton Transactions Poster Award</b>	2022
	University of Oregon / Mentee: Chi-Hsien Wang	
	<b>2 The Foresight Fellowship</b>	2022
	The Foresight Institute / Nominee: James S W Seale	
	<b>1 The Foresight Fellowship</b>	2022
	The Foresight Institute / Nominee: Marco Ovalle M A	
<b>Recommended or Supported Promotion</b>	<b>6 Undergraduate Research Internship in the Wasielewski Group</b>	2024
	Northwestern University / Huiru Yu	
	<b>5 Doctoral of Philosophy Program Admission</b>	2023
	University of Hong Kong / Pramita Kundu	
	<b>4 Postdoctoral Fellowship in the Stoddart Group</b>	2023
	University of Hong Kong / Yi-Kang Xing   邢益康	
	<b>3 Postdoctoral Fellowship in the Stoddart Group</b>	2023
	University of Hong Kong / Bai-Tong Liu   刘百桐	
	<b>2 Postdoctoral Fellowship in the Moore Group</b>	2023
	University of Illinois Urbana-Champaign / Fangbai Xie   谢芳柏	
	<b>1 Undergraduate Program Admission</b>	2022
	Northwestern University / Eric Tianrun Yang   杨天润	
<b>Mentored Presentations</b> <b>P: Postdoc</b> <b>G: Graduate</b> <b>U: Undergrad</b> <b>S: Student</b> <b>F: Fellow</b> <b>V: Visiting</b>	<b>8 The 80th American Chemical Society Southwest Regional Meeting</b>	
	October 2024 / Waco Convention Center / Waco / Texas / United States	
	<b>Poster:</b> Mason, S. A. (US); Lancaster, J. B. (US); Lim, A. J. (US) <i>The Design and Synthesis of Quadrupolar Fluorescent Dyes</i>	
	<b>7 The 80th American Chemical Society Southwest Regional Meeting</b>	
	October 2024 / Waco Convention Center / Waco / Texas / United States	
	<b>Poster:</b> Ou, C. (PF) <i>The Design of a Molecular Motor based on a Redox Switchable Aminoxyl Ring</i>	
	<b>6 Departmental Research Showcase</b>	
	August 2024 / University of Oklahoma / Norman / Oklahoma / United States	
	<b>Poster:</b> Mason, S. A. (US); Lancaster, J. B. (US); Lim, A. J. (US) <i>The Design and Synthesis of Quadrupolar Fluorescent Dyes</i>	
	<b>5 Departmental Research Showcase</b>	
August 2024 / University of Oklahoma / Norman / Oklahoma / United States		
<b>Poster:</b> Ou, C. (PF) <i>Four-Stroke Molecular Rotary Motors based on [3]Catenanes</i>		
<b>4 Invited Talk by the OU Math Club at the University of Oklahoma</b>		
March 2024 / University of Oklahoma / Norman / Oklahoma / United States		
<b>Oral:</b> Lancaster, J. B. (US); Yu, H. (VUS) <i>Tying the Tiniest Knot and Weaving the Thinnest Fabric</i>		
<b>3 The 2nd North American Supramolecular Chemistry Meeting</b>		
December 2023 / Loyola University / New Orleans / Louisiana / United States		
<b>Poster:</b> Mason, S. A. (US); Chapel, N. P. (US); Lancaster, J. B. (US) <i>A Molecular Replication Process Drives Supramolecular Polymerization.</i>		

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- Mentored Presentations (Continued)**
- 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.*
- 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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