

Yuanning Feng

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

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

EDUCATION	Doctor of Philosophy in Chemistry / Northwestern University	2016–2021
	<i>The Rise and Promise of Artificial Molecular Machines</i>	
	Bachelor of Science in Chemical Biology / Tsinghua University	2012–2016
	<i>Construction of the Supra-Amphiphiles Based on Corona[n]arene</i>	

RESEARCH CAREER	Assistant Professor / University of Oklahoma	2023–Now
	Postdoctoral Research Fellow / Northwestern University	2021–2023
	Professor Fraser Stoddart	
	Graduate Research Assistant / Northwestern University	2016–2021
	Professor Fraser Stoddart	
	Visiting Predoctoral Researcher / University of New South Wales	2020
	Dr Dong Jun Kim (김동준)	
	Joint Research Assistant / University of St Andrews	2019–2021
	Professor Douglas Philp	
	Undergraduate Research Assistant / Tsinghua University	2015–2016
	Professor Xi Zhang (张希)	
	Visiting Undergraduate Researcher / University of Texas at Austin	2015
	Professor Jonathan Sessler	
	Undergraduate Research Assistant / Tsinghua University	2013–2015
	Professor Mei-Xiang Wang (王梅祥)	

SELECTED AWARDS AND FELLOWSHIPS	CAS Future Leaders Top 100	2023
	For early-career scientists worldwide who grow science leadership potential	
	International Institute for Nanotechnology Outstanding Researcher Award	2022
	For researchers representing the future of nanotechnology research	
	Chinese Government Award for Outstanding Self-Finance Students Abroad	2022
	The highest governmental award to Chinese graduate students studying abroad	
	The Foresight Institute Distinguished Student Award	2021
	Student version of the Feynman Prize in Nanotechnology	

SUMMARY OF OUTPUTS	34 Publications including <i>Science</i> (×2) <i>Nature</i> (×2) <i>J. Am. Chem. Soc.</i> (×17) <i>Chem</i> (×2) <i>Matter</i> <i>Proc. Natl. Acad. Sci.</i> <i>Nat. Commun.</i> <i>Angew. Chem. Int. Ed.</i> <i>Chem. Sci.</i> <i>Chem. Soc. Rev.</i> <i>Mater. Chem. Front.</i> <i>ACS Cent. Sci.</i> <i>ACS Nano</i> <i>CCS Chem.</i> <i>Langmuir</i>
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ACADEMIC ACTIVITIES	38 Public Presentations including 24 Talks / 14 Posters
	3 Peer Reviewing including <i>J. Am. Chem. Soc.</i> (×2) / <i>J. Phys. Chem. Lett.</i>
	Tech Tree Lead of Molecular Machines Tech Tree for <i>The Foresight Institute</i>

SUPERVISION	5 PhD Visiting Student / Tao Li (李涛) Sun Yat-Sen University / Ming-Liang Tong (童明良)	2023-Now
	4 PhD Visiting Mentee / Chang-Xin Zhao (赵长欣) Tsinghua University / Qiang Zhang (张强)	2023
	3 Undergraduate Mentee / Luke Malaisrie Northwestern University / Fraser Stoddart	2022
	2 PhD Visiting Mentee / Chi-Hsien Wang (王祺嫻) National Tsing Hua University / Masaki Horie (堀江 正樹)	2022-2023
	1 BSc + PhD Visiting Mentee / Christopher Lee University of New South Wales / Dong Jun Kim	2020-2023

TEACHING	8 Graduate Course Instructor / University of Oklahoma Organic Chemistry I: Mechanism and Reactivity	2023
	7 Graduate Course Instructor / University of Oklahoma Seminar in Organic Chemistry	2023
	6 Graduate Course Teaching Assistant / Northwestern University Contemporary Chemistry / Professor Fraser Stoddart	2020
	5 Graduate Course Teaching Assistant / Northwestern University Organic Spectroscopy / Professor Douglas Philp	2019
	4 Undergraduate Course Teaching Assistant / Northwestern University Organic Chemistry Lab II / Dr Derek Nelson	2017
	3 Undergraduate Course Teaching Assistant / Northwestern University Organic Chemistry Lab I / Dr Derek Nelson	2017
	2 Undergraduate Course Teaching Assistant / Northwestern University General Chemistry Lab I / Dr Stephanie Knezz	2016
	1 Undergraduate Course Teaching Assistant / Northwestern University General Chemistry Recitation I / Dr Veronica Berns	2016

FULL LIST OF AWARDS AND FELLOWSHIPS	14 CAS Future Leaders Top 100 Indiana Convention Center / Indianapolis / Indiana / United States	2023
	13 Best Poster Award at North American Supramolecular Chemistry Meeting Loyola University / New Orleans / Louisiana / United states	2022
	12 International Institute for Nanotechnology Outstanding Researcher Award Northwestern University / Evanston / Illinois / United States	2022
	11 Chinese Government Award for Outstanding Self-Finance Students Abroad China Scholarship Council / Beijing / China	2022
	10 The Foresight Fellowship The Foresight Institute / San Francisco / California / United States	2022
	9 World Laureates Forum Young Investigator World Laureates Association / Shanghai / China	2021
	8 The Foresight Institute Distinguished Student Award The Foresight Institute / San Francisco / California / United States	2021
	7 Best Poster Award at ACS Publications Symposium Shanghai Institute of Organic Chemistry CAS / Shanghai / China	2017

FULL LIST OF AWARDS AND FELLOWSHIPS (CONTINUED)	6 Tsinghua Xuetaang Talents Fellowship	2016
	Tsinghua University / Beijing / China	
	5 Tsinghua Xuetaang Oversea 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	

MEETINGS AND NOMINEES' ACHIEVEMENTS	8 Doctoral Program Admission / Pramita Kundu	2023
	University of Hong Kong / Hong Kong / China	
	7 Postdoctoral Fellowship in Fraser Stoddart Group / Yi-Kang Xing (邢益康)	2023
	University of Hong Kong / Hong Kong / China	
	6 Postdoctoral Fellowship in Fraser Stoddart Group / Bai-Tong Liu (刘百桐)	2023
	University of Hong Kong / Hong Kong / China	
	5 Postdoctoral Fellowship in Jeffery Moore Group / Fangbai Xie (谢芳柏)	2023
	University of Illinois Urbana-Champaign / Champaign / Illinois / United States	
	4 Undergraduate Program Admission / Eric Tianrun Yang (杨天润)	2022
	Northwestern University / Evanston / Illinois / United States	
	3 Dalton Transactions Poster Award / Chi-Hsien Wang (王祺嫻)	2022
	University of Oregon / Eugene / Oregon / United States	
	2 The Foresight Fellowship / James Seale	2022
	The Foresight Institute / San Francisco / California / United States	
	1 The Foresight Fellowship / Marco Ovalle	2022
	The Foresight Institute / San Francisco / California / United States	

FULL LIST OF PUBLICATIONS #Equal Contributions *Corresponding Author	38 Lee, C. K.; Feng, Y. ; Tajiki, M.; Donald, W. A.; Stoddart, J. F.*; Kim, D. J.* Concise Synthesis of Hetero[3]Rotaxane. <i>J. Am. Chem. Soc.</i> 2023 , 145,	
	37 Feng, Y. #; Zhao, X.#; Han, H.; Young, R. M.; Liu, W.; Lee, C. K.; Li, W.; Liu, B.-T.; Wu, Y.; Tang, C.; Stern, C. L.; Kim, D. J.; Wasielewski, M. R.; Qiu, Y.*; Stoddart, J. F.* Chalcogenoviologen Enhanced Host-Guest Recognition. <i>Angew. Chem. Int. Ed.</i> 2023 ,	
	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.* Analytic Noncovalent Electrochemistry. <i>Nat. Chem. Eng.</i> 2023 , Submitted	
	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. <i>Chem. Sci.</i> 2023 , Under Revision	

- FULL LIST OF PUBLICATIONS (CONTINUED)**
- #Equal Contributions**
- *Corresponding Author**
- 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*, Just Accepted
 - 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, W. A., III*; 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.
 - 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, W. A., III*; 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.

- FULL LIST OF PUBLICATIONS (CONTINUED)**
- #Equal Contributions**
- *Corresponding Author**
- 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** 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.
 - 17** Guo, Q.-H.#*; Jiao, Y.#; **Feng, Y.**#; Stoddart, J. F.* The Rise and Promise of Molecular Nanotopology. *CCS Chem.* **2021**, 3, 1542–1572.
 - 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.
 - 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, W. A., III; Stoddart, J. F.* Highly Stable Organic Biscaradiicals 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.

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- FULL LIST OF PUBLICATIONS (CONTINUED)**
- #Equal Contributions**
- *Corresponding Author**
- 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, W. A., III; 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.
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- Oral Presentations**
- 25 Foresight Molecular Systems Design Workshop**
 September 2023 / The Institute at the Salesforce Tower / San Francisco / California / United States
Feng, Y. *The Molecular Machines Tech Tree*
 - 24 New Faculty Welcome Seminar in the Department of Chemistry and Biochemistry at the University of Oklahoma**
 September 2023 / National Weather Center / Norman / Oklahoma / United States
Feng, Y. *Yuanning Feng Research Group – Playing with Smart Molecules Together*
 - 23 The 265th American Chemical Society Meeting**
 March 2023 / Indiana Convention Center / Indianapolis / Indiana / United States
Feng, Y.; Stoddart, J. F. *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
Feng, Y. *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
Feng, Y. *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
Feng, Y. *Molecular Replication Makes Supramolecular Polymers*

19 The Foresight Institute Vision Weekend

December 2022 / Internet Archive / San Francisco / California / United States
Feng, Y. *A. The Molecular Machines Tech Tree*
Youtube: <https://www.youtube.com/watch?v=1oFitgVrg1c>
Twitter: <https://twitter.com/foresightinst/status/1632784371768754176>

18 The Foresight Institute Nanotech Seminar Series

October 2022 / Online
Feng, Y. *A. The Molecular Machines Tech Tree*
Youtube: <https://www.youtube.com/watch?v=ibq-O8UvFKY>

17 The 264th American Chemical Society Meeting

August 2022 / McCormick Place Convention Center / Chicago / Illinois / United States
Feng, Y.; Philp, D. *A Molecular Replication Process Drives Supramolecular Polymerization*

16 Long Feng Science Forum

August 2022 / Chinese University of Hong Kong (Shenzhen) / Shenzhen / Guangdong / China and Online
Feng, Y.; Philp, D. *A Molecular Replication Process Drives Supramolecular Polymerization*

15 Chemistry Graduate Recognition Ceremony and Reception

June 2022 / Northwestern University / Evanston / Illinois / United States
Feng, Y. PhD Student Representative Lecture at the Closing Remark

14 Joint Group Meeting between Stoddart Institute of Molecular Science and Northwestern University

March 2022 / Northwestern University / Evanston / Illinois / United States and Zhejiang University / Hangzhou / Zhejiang / China
Feng, Y.; Philp, D. *A Molecular Replication Process Drives Supramolecular Polymerization*

13 The Foresight Institute Nanotech Seminar Series

February 2022 / Online
Feng, Y.; Philp, D. *A Molecular Replication Process Drives Supramolecular Polymerization*
Foresight Institute Website: <https://foresight.org/salon/yuanning-feng-a-molecular-replication-process-drives-supramolecular-polymerization/>
Youtube: <https://www.youtube.com/watch?v=80dKCTz57pw>
Twitter: <https://twitter.com/foresightinst/status/1516113071902642176>

**Oral
Presentations
(CONTINUED)**

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

December 2021 / University of California, Berkeley / Berkeley / California / United States

Feng, Y.; Stoddart, J. F. *The Rise and Promise of Artificial Molecular Machines*

11 The Foresight Institute Vision Weekend

December 2021 / The Bird House / Berkeley / California / United States

Feng, Y. Foresight Institute Distinguished Student Award Acceptance Speech

Stoddart Group Website: <https://stoddart.northwestern.edu/gallery/2021-foresight-distinguished-student-award-acceptance-speech-by-yuanning-feng/>

Youtube: <https://www.youtube.com/watch?v=f2s4b7HeM5Q>

Twitter: <https://twitter.com/YuanningFeng/status/1467708318625918979>

10 The Foresight Institute Vision Weekend

December 2021 / Internet Archive / San Francisco / California / United States

Feng, Y.; Qiu, Y.; Yao, Y. *Will We Achieve Feynman's Vision for Molecular Machines? What's the Path ahead?*

Youtube: <https://www.youtube.com/watch?v=Q98HovyjYcQ>

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

September 2019 / Hilton Orrington / Evanston / Illinois / United States

Feng, Y.; Pandya, R.; Lippert, A. *Turing-Universal Molecular Machines: Rotaxane Automata*

8 Northwestern University Third-Year Organic Seminar Series

May 2019 / Northwestern University / Evanston / Illinois / United States

Feng, Y.; Kosikova, T.; Philp, D.; Stoddart, J. F. *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

Feng, Y.; Stoddart, J. F. *Four-Stroke Molecular Rotary Motors Based on [3]Catenanes*

6 Seek Truth Salon

September 2018 / Beijing Institute of Technology / Beijing / China

Feng, Y. *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

Feng, Y.; Dobbin, T. A.; Colley, N. *Nanofluidic Bearings*

4 Tsinghua Spark Forum

October 2017 / Tsinghua University / Beijing / China

Feng, Y. *Meet a Nobel Knight and a Tsinghua Adventurer Face-to-Face*

3 A Golden Age of Chemistry Symposium

June 2017 / University of Nottingham / Nottingham / United Kingdom

Feng, Y.; Ying, Y.-L.; Long, Y.-T.; Stoddart, J. F. *A Single-Molecule Pump Based on Solid-State Nanopores*

**Oral
Presentations
(CONTINUED)**

2 Chinese Youth Chemist Forum

May 2016 / Peking University / Beijing / China

Feng, Y.; Guo, Q.-H.; Zhao, L.; Wang, M.-X. *The Construction of a Sulfur Bridged Macrocyclic Host – S₆-Corona[n]arene*

1 Chinese Youth Chemist Forum

May 2016 / Peking University / Beijing / China

Feng, Y. Student Representative Lecture at the Opening Remark

**Poster
Presentations**

14 Gordon Research Conference: Artificial Molecular Switches and Motors

June 2023 / Colby-Sawyer College / New London / New Hampshire / United States

Feng, Y.; Stoddart, J. F. *Molecular Pumping in Water | Future Projects in the Feng Group at the University of Oklahoma*

13 The 1st North American Supramolecular Chemistry Meeting

December 2022 / Loyola University / New Orleans / Louisiana / United States

Feng, Y.; Stoddart, J. F. *Alkoxy-Substituted Quadrupolar Fluorescent Dyes*

Twitter: <https://twitter.com/YuanningFeng/status/1605439621424451585>

12 The 5th World Laureates Forum

November 2022 / World Laureates Association / Shanghai / China and Online

Feng, Y.; Stoddart, J. F. *Alkoxy-Substituted Quadrupolar Fluorescent Dyes*

11 Gordon Research Conference on Systems Chemistry

June 2022 / Jordan Hotel at Sunday River / Newry / Maine / United States

Feng, Y.; Philp, D. *A Molecular Replication Process Drives Supramolecular Polymerization*

10 The 16th International Symposium of Macrocyclic and Supramolecular Chemistry

June 2022 / University of Oregon / Eugene / Oregon / United States

Feng, Y.; Philp, D. *A Molecular Replication Process Drives Supramolecular Polymerization*

9 The 263rd American Chemical Society Meeting

March 2022 / San Diego Convention Center / San Diego / California / United States

Feng, Y.; Wang, C.-H.; Jiao, Y.; Qiu, Y.; Stoddart, J. F. *Sustainable Artificial Molecular Pump Working for Unidirectional Transport*

8 The 4th World Laureates Forum

November 2021 / World Laureates Association / Shanghai / China and Online

Feng, Y.; Philp, D. *A Molecular Replication Process Drives Supramolecular Polymerization*

7 Gordon Research Conference on Systems Chemistry

July 2018 / Jordan Hotel at Sunday River / Newry / Maine / United States

Feng, Y.; Stoddart, J. F. *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

Feng, Y.; Stoddart, J. F. *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

Feng, Y.; Stoddart, J. F. *Four-Stroke Molecular Rotary Motors Based on [3]Catenanes*

Poster Presentations (CONTINUED)	4 The ACS Publications Symposium: Innovation in Molecular Synthesis October 2017 / Shanghai Institute of Organic Chemistry CAS / Shanghai / China Feng, Y. ; Stoddart, J. F. <i>A Four-Stroke Rotary Motor Based on a [3]Catenane</i>
	3 The ACS Publications Symposium: Innovation in Molecular Synthesis October 2017 / Shanghai Institute of Organic Chemistry CAS / Shanghai / China Feng, Y. ; Ying, Y.-L.; Long, Y.-T.; Stoddart, J. F. <i>Single-Molecule Pumps Based on Solid-State Nanopores</i>
	2 The 12th International Symposium of Macrocyclic and Supramolecular Chemistry July 2017 / University of Cambridge / Cambridge / United Kingdom Feng, Y. ; Ying, Y.-L.; Long, Y.-T.; Stoddart, J. F. <i>Single-Molecule Pumps Based on Solid-State Nanopores</i>
	1 Gordon Research Conference: Artificial Molecular Switches and Motors June 2017 / Holderness School / Holderness / New Hampshire / United States Feng, Y. ; Ying, Y.-L.; Long, Y.-T.; Stoddart, J. F. <i>A Single-Molecule Pump Based on Solid-State Nanopores</i>

SKILLS AND TECHNIQUES	Native speaker of Mandarin, fluent in English, moderate in French Skilled in organic synthesis and characterization, e.g., Glovebox, Microwave reactor, Photoreactor, Potentiostat, NMR, MS, ITC, HPLC, UV-Vis-NIR, Fluorescence spectroscopy Skilled in polymer synthesis and characterization, e.g., DOSY, DLS, SEM, PXRD, Rheometry
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