

# Liang Feng

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## EDUCATION AND RESEARCH EXPERIENCE

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<b>Northwestern University</b> Advisor: Prof. Fraser Stoddart (2016 Nobel Laureate) <ul style="list-style-type: none"><li>Discovered active adsorption: storing energy in non-equilibrium materials through mechanisorption</li></ul>	Sept. 2020–Present Postdoctoral Fellow
<b>Texas A&amp;M University</b> Advisor: Prof. Hong-Cai Joe Zhou <ul style="list-style-type: none"><li>Mastered hierarchical architectures in metal-organic frameworks and their polymer composites for gas storage, separation, and catalysis</li></ul>	Sept. 2016–Aug. 2020 🎓 <b>Ph.D.</b> in Chemistry
<b>Wuhan University</b>	Sept. 2012–Jun. 2016 🎓 <b>B.S.</b> in Chemistry

## HONORS AND AWARDS

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MRS Postdoctoral Award   <i>Materials Research Society</i>	2022
Forbes 30 Under 30 in Science	2022
Dream Chemistry Award Top 5	2022
Rising Star in Soft and Biological Matter / <i>UChicago MRSEC</i>	2022
12 Under 12 Young Alumni Spotlight   <i>Association of Former Students, Texas A&amp;M University</i>	2022
Delegate to the 71st Lindau Nobel Laureate Meeting (Chemistry)	2022
IAS Award for Excellence in Publications by a Young Member   <i>International Adsorption Society</i>	2022
CAS Future Leaders   <i>ACS Division of Chemical Abstracts Service</i>	2022
MRS Bulletin Postdoctoral Publication Prize	2022
Selected to <i>University of Chicago</i> Future Faculty Conference	2022
Younger Chemist Leadership Development Award   <i>ACS Younger Chemists Committee</i>	2022
16 <sup>th</sup> International Symposium of Macrocyclic & Supramolecular Chemistry Poster Winner   <i>RSC</i>	2022
Winner for 2022 #RSCPoster Twitter Conference   <i>Royal Society of Chemistry</i>	2022
Researcher Development Grant   <i>Royal Society of Chemistry</i>	2022
PMSE Future Faculty Scholar   <i>ACS Division of Polymeric Materials: Science and Engineering</i>	2021
Victor K. LaMer Award Finalist   <i>ACS Division of Colloid &amp; Surface Chemistry</i>	2021
Postdoc of the Month   December   <i>Northwestern University Postdoctoral Association</i>	2021
Selected to Seminar Program for Postdoctoral Fellows   <i>Pennsylvania State University</i>	2021
World Laureates Forum Young Investigator   <i>World Laureates Association</i>	2021
Foresight Fellowship in Molecular Machines	2021
Mark Reed Young Researcher Award   <i>Nanotechnology</i>	2021
Rowland Fellowship Finalist   <i>Rowland Institute at Harvard</i>	2021
Texas A&M Distinguished Dissertation Award Runner-Up	2021
Young Chemist Award Runner-Up   <i>Metrohm USA</i>	2021
Distinguished Student Award in Nanotechnology   <i>Foresight Institute</i>	2020
Graduate Student Award   <i>Materials Research Society</i>	2020
Reaxys PhD Prize Finalist   <i>Elsevier</i>	2020
AFS Distinguished Graduate Student Award for Excellence in Research   <i>Texas A&amp;M University</i>	2020
Dow Chemical Company Charlene Black Miller '79 Endowed Memorial Fellowship in Chemistry	2020
CSC Award for Outstanding Self-Financed Students Abroad	2020
Science as Art Finalist   <i>Materials Research Society</i>	2020
Travel Grants for PhD Students and Early Career Scientists   <i>RSC Materials Chemistry Division</i>	2020
Student Travel Award   <i>ACS Division of Inorganic Chemistry</i>	2019
Derek & Christiane Barton Graduate Endowed Fellowship   <i>Texas A&amp;M University</i>	2019
JEMS Scholarship for Collaborative Research in Chemistry   <i>Texas A&amp;M University</i>	2019

Martin Corera Memorial Graduate Student Travel Award in Chemistry   <i>Texas A&amp;M University</i>	2019
OGAPS Graduate Student Research and Presentation Travel Award   <i>Texas A&amp;M University</i>	2019
Visiting Student Research Program (VSRP) Research Scholarship   <i>KAUST</i>	2016
Cross-disciplinary Scholars in Science & Technology (CSST) Fellowship   <i>UCLA</i>	2015
Gold Award   <i>Wiley Online Library Best Paper Writing Contest</i>	2015
National Endeavor Scholarship   <i>Ministry of Education, China</i>	2014   2015

## SELECTED PRESENTATIONS


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14. Dream Chemistry Award Finalist Dream Project | Warsaw, Poland | Dec. 5, 2022
13. MRS Postdoctoral Award Talk | 2022 MRS Fall Meeting | Boston, Massachusetts | Nov. 27, 2022
12. UChicago MRSEC Rising Stars in Soft and Biological Matter Symposium | Virtual | Oct. 6, 2022
11. Next Generation Science Session, 71st Lindau Nobel Laureate Meeting | Hybrid | June 29, 2022
10. 14<sup>th</sup> International Adsorption Conference Award Lecture | Broomfield, CO | May 27, 2022
9. UChicago Future Faculty Conference | Virtual | May 26, 2022
8. 2022 ACS POLY/PMSE Future Faculty Symposium | San Diego, California | Mar. 20, 2022
7. Rowland Symposium, Rowland Institute at Harvard | Cambridge, Massachusetts | Dec. 7, 2021
6. Seminar Program for Postdoctoral Fellows, Penn State | State College, Pennsylvania | Dec. 2, 2021
5. 2021 Foresight Institute Nanotech Seminar: Molecular Machines | Virtual | Nov. 1, 2021
4. Inorganic Chemistry Seminar, Rice University | Houston, Texas | Oct. 27, 2021
3. 95th ACS Colloid & Surface Science Symposium LaMer Keynote Speaker | Virtual | June 15, 2021
2. Graduate Student Award Talk Sessions, 2020 MRS Spring Meeting | Virtual | Apr. 13, 2020
1. EFRC Center for Gas Separations Monthly Seminar | Berkeley, California | Jan. 2018

## PUBLICATIONS

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† denotes equal contribution | \* denotes corresponding authorship

(56 peer-reviewed journal publications | 12 publications featured on Journal Covers | h-index 30 | total citations 5,096 | accessed on July 2022  [Google Scholar](#))

(Co-) First-Author / Corresponding-Author Publications (34)

56. **Feng, L.\***; Astumian, R. D.\*; Stoddart, J. F.\*, Controlling Dynamics in Extended Molecular Frameworks, *Nat. Rev. Chem.* **2022**, *6*, 705–725.
55. **Feng, L.†**; Qiu, Y.†; Guo, Q.-H.; Chen, Z.; Seale, J.; 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. ([Link](#)) Highlighted by *Science*, *Nat. Chem.*, *Angew. Chem. Int. Ed.*, *C&EN*, *Phys.org*, *Chemistry World*, *Engineering 360*, *X-MOL*, *Northwestern Now*, *NU Chemistry Newsletters*, *UMaine News*, *Science & Technology Daily*, and *Frontiers of Polymer*
54. Lo, S.-H.†; **Feng, L.†**; Tan, K.; Huang, Z.; Yuan, S.; Wang, K.-Y.; Li, B.-H.; Liu, W.-L.; Day, G.; Tao, S.; Yang, C.-C.; Luo, T.-T.; Lin, C.-H.; Wang, S.-L.; Billinge, S.; Lu, K.-L.; Chabal, Y.-J.; Zou, X.; Zhou, H.-C., Rapid Desolvation-Triggered Domino Lattice Rearrangement in a Metal-Organic Framework, *Nat. Chem.* **2020**, *12*, 90–97. ([Link](#))
53. Wang, K.-Y.; Yang, Z.; Banerjee, S.; Zhang, J.; Hsu, Y.-C.; Joseph, E.; Yuan, S.\*; **Feng, L.\***; Zhou, H.-C.\*, Creating Hierarchical Pores in Metal–Organic Frameworks via Post-Synthetic Reactions, *Nat. Protoc.* **2022**, In press.
52. **Feng, L.**; Wang, K.-Y.; Yan, T.-H.; Zhou, H.-C., Porous Crystalline Spherulite Superstructures, *Chem* **2020**, *6*, 460–471.
51. **Feng, L.**; Li, J.; Day, G. S.; Lv, X.-L.; Zhou, H.-C., Temperature-Controlled Evolution of Nanoporous MOF Crystallites into Hierarchically Porous Superstructures, *Chem* **2019**, *5*, 1265–1274.
50. **Feng, L.**; Day, G. S.; Wang, K.-Y.; Yuan, S.; Zhou, H.-C., Strategies for Pore Engineering in Zirconium Metal-Organic Frameworks, *Chem* **2020**, *6*, 2902–2923.

49. **Feng, L.**<sup>†</sup>; Lo, S.-H.<sup>†</sup>; Tan, K.; Li, B.-H.; Yuan, S.; Lin, Y.-F.; Lin, C.-H., Wang S.-L., Lu, K.-L., Zhou, H.-C., An Encapsulation-Rearrangement Strategy to Integrate Superhydrophobicity into Mesoporous Metal-Organic Frameworks, *Matter* **2020**, *2*, 988–999.
48. **Feng, L.**; Yuan, S.; Qin, J.-S.; Wang, Y.; Kirchon, A.; Qiu, D.; Cheng, L.; Madrahimov, S.; Zhou, H.-C., Lattice Expansion and Contraction in Metal-Organic Frameworks by Sequential Linker Reinstallation, *Matter* **2019**, *1*, 156–167.
47. **Feng, L.**<sup>†</sup>; Wang, K.-Y.<sup>†</sup>; Powell, J.; Zhou, H.-C., Controllable Synthesis of Metal-Organic Frameworks and Their Hierarchical Assemblies, *Matter* **2019**, *1*, 801–824.
46. **Feng, L.**; Wang, K.-Y.; Lv, X.-L.; Yan, T.-H.; Li, J.-R.; Zhou, H.-C., Modular Total Synthesis in Reticular Chemistry, *J. Am. Chem. Soc.* **2020**, *142*, 3069–3076.
45. **Feng, L.**; Wang, K.; Lv, X.-L.; Powell, J.; Yan, T.; Willman, J.; Zhou, H.-C., Imprinted Apportionment of Functional Groups in Multivariate Metal-Organic Frameworks, *J. Am. Chem. Soc.* **2019**, *141*, 14524–14529.
44. **Feng, L.**; Lv, X.-L.; Yan, T.-H.; Zhou, H.-C., Modular Programming of Hierarchy and Diversity in Multivariate Polymer/Metal-Organic Framework Hybrid Composites, *J. Am. Chem. Soc.* **2019**, *141*, 10342–10349.
43. **Feng, L.**; Yuan, S.; Zhang, L.-L.; Tan, K.; Li, J.-L.; Kirchon, A.; Liu, L.-M., Zhang, P.; Han, Y.; Chabal, Y. J.; Zhou, H.-C., Creating Hierarchical Pores by Controlled Linker Thermolysis in Multivariate Metal-Organic Frameworks, *J. Am. Chem. Soc.* **2018**, *140*, 2363–2372.
42. Lv, X.-L.<sup>†</sup>; **Feng, L.**<sup>†</sup>; Xie, L.-H.; He, T.; Wu, W.; Wang, K.-Y.; Si, G.; Wang, B.; Li, J.-R.; Zhou, H.-C., Linker Desymmetrization: Access to a Series of Rare-Earth Tetracarboxylate Frameworks with Eight-Connected Hexanuclear Nodes, *J. Am. Chem. Soc.* **2021**, *143*, 2784–2791.
41. Wang, Y.<sup>†</sup>; **Feng, L.**<sup>†</sup>; Fan, W.; Wang, K.; Wang, X.; Wang, X.; Zhang, K.; Zhang, X.; Dai, F.; Sun, D.; Zhou, H.-C., Topology Exploration in Highly Connected Rare-Earth Metal-Organic Frameworks via Continuous Hindrance Control, *J. Am. Chem. Soc.* **2019**, *141*, 6967–6975.
40. **Feng, L.**; Yuan, S.; Li, J.-L.; Wang, K.-Y.; Day, G.; Zhang, P.; Wang, Y.; Zhou, H.-C., Uncovering Two Principles of Multivariate Hierarchical Metal-Organic Framework Synthesis via Retrosynthetic Design, *ACS Cent. Sci.* **2018**, *4*, 1719–1726.
39. **Feng, L.**<sup>†</sup>; Wang, Y.<sup>†</sup>; Zhang, K.; Wang, K.-Y.; Fan, W.; Wang, X.; Powell, J. A.; Guo, B.; Dai, F.; Zhang, L.; Wang, R.; Sun, D.; Zhou, H.-C., Molecular Pivot-Hinge Installation to Evolve Topology in Rare-Earth Metal-Organic Frameworks, *Angew. Chem. Int. Ed.* **2019**, *58*, 16682–16691.
38. Lv, X.-L.<sup>†</sup>; **Feng, L.**<sup>†</sup>; Wang, K.-Y.; Xie, L.-H.; He, T.; Wu, W.; Li, J.-R.; Zhou, H.-C., A Series of Mesoporous Rare-Earth Metal-Organic Frameworks Constructed from Organic Secondary Building Units, *Angew. Chem. Int. Ed.* **2021**, *60*, 2053–2057.
37. Zhang, L.<sup>†</sup>; Yuan, S.<sup>†</sup>; **Feng, L.**<sup>†</sup>; Guo, B.; Qin, J.-S.; Xu, B.; Lollar, C.; Sun, D.; Zhou, H.-C., Pore-Environment Engineering with Multiple Metal Sites in Rare-Earth Porphyrinic Metal-Organic Frameworks, *Angew. Chem. Int. Ed.* **2018**, *57*, 5095–5099.
36. **Feng, L.**<sup>†</sup>; Wang, Y.<sup>†</sup>; Yuan, S.; Wang, K.; Li, J.; Day, G. S.; Qiu, D.; Cheng, L.; Chen, W.; Madrahimov, S.; Zhou, H.-C., Porphyrinic Metal-Organic Frameworks Installed with Brønsted Acid Sites for Efficient Tandem Semisynthesis of Artemisinin, *ACS Catal.* **2019**, *9*, 5111–5118.
35. Wang, K.-Y.; **Feng, L.**<sup>\*</sup>; Yan, T.-H.; Qin, J.-S.; Li, C.-X.; Zhou, H.-C.<sup>\*</sup>, Morphology Transcription in Hierarchical MOF-on-MOF Architectures, *ACS Materials Lett.* **2021**, *3*, 738–743.
34. **Feng, L.**; Wang, K.-Y.; Yan, T.-H.; Zhou, H.-C., Seed-Mediated Evolution of Hierarchical Metal-Organic Framework Quaternary Superstructures, *Chem. Sci.* **2020**, *11*, 1643–1648.
33. Wang, Y.<sup>†</sup>; **Feng, L.**<sup>†</sup>; Zhang, K.; Wang, K.-Y.; Fan, W.; Wang, X.; Powell, J. A.; Guo, B.; Dai, F.; Zhang, L.; Wang, R.; Sun, D.; Zhou, H.-C., Uncovering Structural Opportunities for Zirconium Metal-Organic Frameworks via Linker Desymmetrization, *Adv. Sci.* **2019**, 1901855.
32. Wang, Y.<sup>†</sup>; **Feng, L.**<sup>†</sup>; Pang, J.; Li, J.; Huang, N.; Day, G. S.; Cheng, L.; Drake, H. F.; Wang, Y.; Lollar, C.; Qin, J.; Gu, Z.; Lu, T.; Yuan, S.; Zhou, H.-C., Photosensitizer-Anchored 2D MOF Nanosheets as Highly Stable and Accessible Catalysts toward Artemisinin Production, *Adv. Sci.* **2019**, *6*, 1802059.
31. **Feng, L.**; Chen, W.-M.; Li, J.; Day, G.; Drake, H.; Joseph, E.; Zhou, H.-C., Biological Antagonism Inspired Detoxification: Removal of Toxic Elements by Porous Polymer Networks, *ACS Appl. Mater. Interfaces* **2019**, *11*, 14383–14390.
30. Seale, J.; Feng, Y.; **Feng, L.**<sup>\*</sup>; Astumian, R. D.<sup>\*</sup>; Stoddart, J. F.<sup>\*</sup>, Polyrotaxanes and the Pump Paradigm, *Chem. Soc. Rev.* **2022**, In press.

29. **Feng, L.**; Wang, K.-Y.; Day, G. S.; Ryder, M.; Zhou, H.-C., Destruction of Metal-Organic Frameworks: Positive and Negative Aspects of Stability and Lability, *Chem. Rev.* **2020**, *120*, 13087–13133.
28. **Feng, L.**<sup>†</sup>; Wang, K.-Y.<sup>†</sup>; Day, G.; Zhou, H.-C., The Chemistry of Multi-Component and Hierarchical Framework Compounds, *Chem. Soc. Rev.* **2019**, *48*, 4823–4853.
27. Kirchon, A.<sup>†</sup>; **Feng, L.**<sup>†</sup>; Drake, H. F.<sup>†</sup>; Joseph, E. A.; Zhou, H.-C., From Fundamentals to Applications: A Toolbox for Robust and Multifunctional MOF Materials, *Chem. Soc. Rev.* **2018**, *47*, 8611–8638.
26. **Feng, L.**<sup>†</sup>; Wang, K.-Y.<sup>†</sup>; Joseph, E.; Zhou, H.-C., Catalytic Porphyrin Framework Compounds, *Trends Chem.* **2020**, *2*, 555–568.
25. **Feng, L.**; Pang, J.; She, P.; Li, J.; Qin, J.-S.; Du, D.-Y.; Zhou, H.-C., Metal-Organic Frameworks based on Group 3 and 4 Metals, *Adv. Mater.* **2020**, *32*, 2004414.
24. **Feng, L.**<sup>†</sup>; Wang, K.-Y.<sup>†</sup>; Willman, J.; Zhou, H.-C., Hierarchy in Metal-Organic Frameworks, *ACS Cent. Sci.* **2020**, *6*, 359–367.
23. **Feng, L.**; Wang, K.-Y.; Lv, X.-L.; Yan, T.-H.; Zhou, H.-C., Hierarchically Porous Metal-Organic Frameworks: Synthetic Strategies and Applications, *Nat. Sci. Rev.* **2020**, *7*, 1743–1758.

*Contributing-Author Publications (22)*

22. Pandey, H.; Wang, H.; **Feng, L.**; Wang, K.-Y.; Zhou, H.-C.; Li, J.; Thonhauser, T.; Tan, K., Revisiting co-adsorption of small molecules in metal-organic framework: MOF-74, *Inorg. Chem.* **2022**, In Press.
21. Zhu, C.; Yang, K.; Wang, H.; Fang, Y.; **Feng, L.**; Zhang, J.; Xiao, Z.; Wu, X.; Li, Y.; Fu, Y.; Zhang, W.; Wang, K.-Y.; Zhou, H.-C., Enantioseparation in Hierarchically Porous Assemblies of Homochiral Cages, *ACS Cent. Sci.* **2022**, *8*, 562–570.
20. Wang, K.-Y.; **Feng, L.**; Yan, T.-H.; Wu, S.-X.; Joseph, E.; Zhou, H.-C., Rapid Generation of Hierarchically Porous Metal-Organic Frameworks through Laser Photolysis, *Angew. Chem. Int. Ed.* **2020**, *59*, 11349–11354.
19. Chapman, E.; Ullah, S.; Wang, H.; **Feng, L.**; Wang, K.-Y.; Zhou, H.-C.; Li, J.; Thonhauser, T.; Tan, K., Tuning the Adsorption Properties of Metal-Organic Frameworks through Co-adsorbed Ammonia, *ACS Appl. Mater. Interfaces* **2021**, *13*, 43661–43667.
18. Habibollahzadeh, M.; Noh, J.; **Feng, L.**; Zhou, H.-C.; Abdel-Wahab, A.; Yu, C., Enhancing Water Permeability with Super-hydrophilic Metal-Organic Frameworks and Hydrophobic Straight Pores, *Environ. Sci.: Water Res. Technol.* **2021**, *7*, 1137–1145.
17. Chen, F.; Drake, H.; **Feng, L.**; Powell, J.; Wang, K.; Yan, T.; Zhou, H.-C., Metal-Organic Frameworks as Versatile Platforms for Organometallic Chemistry, *Inorganics* **2021**, *9*, 27.
16. Chen, W.; Cai, P.; Elumalai, P.; Zhang, P.; **Feng, L.**; Al-Rawashdeh, M.; Madrahimov, S.; Zhou, H.-C., Site-Isolated Azobenzene-Containing Metal-Organic Framework for Cyclopalladated Catalyzed Suzuki-Miyaura Coupling in Flow, *ACS Appl. Mater. Interfaces* **2021**, *13*, 51849–51854.
15. Yuan, S.; **Feng, L.**; Wang, K.; Pang, J.; Bosch, M.; Lollar, C.; Sun, Y.; Qin, J.; Yang, X.; Zhang, P.; Wang, Q.; Zou, L.; Zhang, Y.; Zhang, L.; Fang, Y.; Li, J.; Zhou, H.-C., Stable Metal-Organic Frameworks: Design, Synthesis, and Applications, *Adv. Mater.* **2018**, 1704303.
14. Xu, M.; **Feng, L.**; Yan, L.; Meng, S.; Yuan, S.; He, M.; Liang, H.; Chen, X.; Wei, H.; Gu, Z.; Zhou, H.-C., Discovery of Precise pH-Controlled Biomimetic Catalysts: Defective Zirconium Metal-Organic Frameworks as Alkaline Phosphatase Mimics, *Nanoscale* **2019**, *11*, 11270–11278.
13. Chen, Z.; **Feng, L.**; Liu, L.; Bhatt, P.M.; Adil, K.; Emwas, A.H.; Assen, A.H.; Belmabkhout, Y.; Han, Y.; Eddaoudi, M., Enhanced Separation of Butane Isomers via Defect Control in a Fumarate/Zirconium-Based Metal-Organic Framework, *Langmuir* **2018**, *34*, 14546–14551.
12. Jensen, S.; Tan, K.; **Feng, L.**; Li, J.; Zhou, H.-C.; Thonhauser, T., Porous Ti-MOF-74 Framework as a Strong-Binding Nitric Oxide Scavenger, *J. Am. Chem. Soc.* **2020**, *142*, 16562–16568.
11. Huang, Q.; Liu, J.; **Feng, L.**; Wang, Q.; Guan, W.; Dong, L.-Z.; Zhang, L.; Yan, L.-K.; Lan, Y.-Q.; Zhou, H.-C., Multielectron Transportation of Polyoxometalate Grafted Metalloporphyrin Coordination Frameworks for Selective CO<sub>2</sub>-to-CH<sub>4</sub> Photoconversion, *Nat. Sci. Rev.* **2020**, *7*, 53–63.
10. Tan, K.; Jensen, S.; **Feng, L.**; Wang, H.; Yuan, S.; Ferreri, M.; Klesko, J.; Rahman, R.; Cure, J.; Li, J.; Zhou, H.-C.; Thonhauser, T.; Chabal, Y., Reactivity of Atomic Layer Deposition Precursors with OH/H<sub>2</sub>O-Containing Metal-Organic Framework Materials, *Chem. Mater.* **2019**, *31*, 2286–2295.
9. Jiang, Y.; Park, J.; Tan, P.; **Feng, L.**; Liu, X.; Sun, L.; Zhou, H.-C., Maximizing Photoresponsive Efficiency by Isolating Metal-Organic Polyhedra into Confined Nanoscaled Spaces, *J. Am. Chem. Soc.* **2019**, *141*, 8221–8227.

8. Fan, W.; Yuan, S.; Wang, W.; **Feng, L.**; Liu, X.; Zhang, X.; Wang, X.; Kang, Z.; Dai, F.; Yuan, D.; Sun, D.-F.; Zhou, H.-C., Optimizing Multivariate Metal-Organic Frameworks for Efficient C<sub>2</sub>H<sub>2</sub>/CO<sub>2</sub> Separation, *J. Am. Chem. Soc.* **2020**, *142*, 8728–8737.
7. Yuan, S.; Huang, L.; Huang, Z.; Sun, D.; Qin, J.-S.; **Feng, L.**; Li, J.; Zou, X.; Cagin, T.; Zhou, H.-C., Continuous Variation of Lattice Dimensions and Pore Sizes in Metal-Organic Frameworks, *J. Am. Chem. Soc.* **2020**, *142*, 4732–4738.
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5. Cure, J.; Mattson, E.; Kevin, C.; Assi, H.; Jensen, S.; Tan, K.; Catalano, M.; Yuan, S.; Wang, H.; **Feng, L.**; Zhang, P.; Kwon, S.; Veyan, J.-F.; Cabrera, Y.; Zhang, G.; Li, J.; Kim, M.; Zhou, H.-C.; Chabal Y.; Thonhauser T., High Stability of Ultra-small and Isolated Gold Nanoparticles in Metal-Organic Framework Materials, *J. Mater. Chem. A* **2019**, *7*, 17536–17546.
4. Elumalai, P.; Mamlouk, H.; Yiming, W.; **Feng, L.**; Yuan, S.; Zhou, H. C.; Madrahimov, S., Recyclable and Reusable Heteroleptic Nickel Catalyst Immobilized on Metal-Organic Framework for Suzuki-Miyaura Coupling, *ACS Appl. Mater. Interfaces* **2018**, *10*, 41431–41438.
3. Yuan, S.; Zhang, P.; Zhang, L.; Garcia-Esparza, A. T.; Sokaras, D.; Qin, J.-S.; **Feng, L.**; Day, G. S.; Chen, W.; Drake, H. F.; Elumalai, P.; Madrahimov, S. T.; Sun, D.; Zhou, H.-C., Exposed Equatorial Positions of Metal Centers via Sequential Ligand Elimination and Installation in MOFs, *J. Am. Chem. Soc.* **2018**, *140*, 10814–10819.
2. Yuan, S.; Qin, J.-S.; Li, J.; Huang, L.; **Feng, L.**; Fang, Y.; Lollar, C.; Pang, J.; Zhang, L.; Sun, D.; Alsalmé, A.; Cagin, T.; Zhou, H.-C., Retrosynthesis of Multi-Component Metal-Organic Frameworks, *Nat. Commun.* **2018**, *9*, 808.
1. Yuan, S.; Zou, L.; Qin, J.-S.; Li, J.; **Feng, L.**; Wang, X.; Bosch, M.; Alsalmé, A.; Cagin, T.; Zhou, H.-C., Construction of Hierarchically Porous Metal-Organic Frameworks through Linker Labilization, *Nat. Commun.* **2017**, *8*, 15356.