

Liang Feng

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EDUCATION AND RESEARCH EXPERIENCE

Northwestern University Sept. 2020–Present

Advisor: Prof. Fraser Stoddart (2016 Nobel Laureate in Chemistry) Postdoctoral Fellow

- Mechanisorption: storing energy in non-equilibrium materials through active adsorption

Texas A&M University Sept. 2016–Aug. 2020

Advisor: Prof. Hong-Cai Joe Zhou **Ph.D.** in Chemistry

- Mastering hierarchical architectures in metal-organic frameworks and their polymer composites for gas storage, separation, and catalysis

Wuhan University Sept. 2012–Jun. 2016

B.S. in Chemistry

HONORS AND AWARDS

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
Winner for 2022 #RSCPoster Twitter Conference <i>Royal Society of Chemistry</i>	2022
Forbes 30 Under 30 in Science	2022
CAS Future Leaders <i>ACS Division of Chemical Abstracts Service</i>	2022
Younger Chemist Leadership Development Award <i>ACS Younger Chemists Committee</i>	2022
Postdoc of the Month December <i>Northwestern University Postdoctoral Association</i>	2021
PMSE Future Faculty Scholar <i>ACS Division of Polymeric Materials: Science and Engineering</i>	2021
World Laureates Forum Young Investigator <i>World Laureates Association</i>	2021
Foresight Fellowship in Molecular Machines and Robust Dynamics	2021
Mark Reed Young Researcher Award <i>Nanotechnology</i>	2021
Victor K. LaMer Award Finalist <i>ACS Division of Colloid & Surface Chemistry</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&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&M University</i>	2019
JEMS Scholarship for Collaborative Research in Chemistry <i>Texas A&M University</i>	2019
Martin Corera Memorial Graduate Student Travel Award in Chemistry <i>Texas A&M University</i>	2019
OGAPS Graduate Student Research and Presentation Travel Award <i>Texas A&M University</i>	2019
Cross-disciplinary Scholars in Science & Technology (CSST) Fellowship <i>UCLA</i>	2015
Gold Award <i>Wiley Online Library Best Paper Writing Contest</i>	2015

ACTIVITIES AND SERVICES

Discussion Leader, 263rd ACS National Meeting & Exposition 2022

- *Workshop*—The graduate school experience: What to expect

Pen Pal of Letters to a Pre-Scientist 2021– Present

Panelist of MIT Technology Review Global Panel 2021– Present

Session Chair, 262nd ACS National Meeting & Exposition 2021

- *Session*—Chemistry of Materials: Synthesis & Properties | *ACS Division of Inorganic Chemistry*

Early Career Network Representative, U.S. Department of Energy, Basic Energy Sciences 2019–2020

Member of

International Adsorption Society (2021–Present) | *Reaxys Prize Club* (2020–2021) | *Foresight Institute Molecular Machine Group* (2020–Present) | *Materials Research Society* (2019–Present) | *Royal Society of Chemistry* (2019–Present) | *American Chemical Society* (2018–Present) | *DOE EFRC Center for Gas Separations* (2017–2020)

Editorial Board for

Nanotechnology (2022–Present)

Independent Reviewer for 2017–Present

Matter | *J. Am. Chem. Soc.* | *Chem. Sci.* | *Chem. Soc. Rev.* | *Coord. Chem. Rev.* | *ACS Appl. Mater. Interfaces* | *Chem. Mater.* | *ACS Materials Lett.* | *Mater. Today Chem.* | *Inorg. Chem.* | *Sci. Rep.* | *Inorg. Chem. Commun.* | *J. Solid State Chem.* | *Microporous Mesoporous Mater.*

PUBLICATIONS

† denotes equal contribution | * denotes corresponding authorship

(11 featured on Journal Covers | h-index 28 | total citations 4,231 | accessed on March 2022 )

(Co-) First-Author / Corresponding-Author Publications (31)

51. **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. [Highlighted by 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](#)
50. 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. [Highlighted by SciGlow and X-MOL](#)
49. **Feng, L.**; Wang, K.-Y.; Yan, T.-H.; Zhou, H.-C., Porous Crystalline Spherulite Superstructures, *Chem* **2020**, *6*, 460–471.
48. **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.
47. **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.
46. **Feng, L.**[†]; Lo, S.-H.[†]; 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.
45. **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. [Previewed by Matter 2019, 1, 17–38](#)

44. **Feng, L.**[†]; Wang, K.-Y.[†]; Powell, J.; Zhou, H.-C., Controllable Synthesis of Metal–Organic Frameworks and Their Hierarchical Assemblies, *Matter* **2019**, *1*, 801–824. [Rank 1 of Most Read Articles in Oct. 2019](#)
43. **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.
42. **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.
41. **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. [Highlighted by DOE Energy Frontier Research Center for Gas Separation](#)
40. **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.
39. Lv, X.-L.[†]; **Feng, L.**[†]; 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. [Selected as Back Cover](#)
38. Wang, Y.[†]; **Feng, L.**[†]; 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. [Selected as Back Cover](#)
37. **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. [Front Cover](#) | [Rank 6 of Most Downloaded Articles in Dec. 2018](#)
36. **Feng, L.**[†]; Wang, Y.[†]; 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. [Selected as Very Important Paper Top 5% | Highlighted by ChemistryViews](#)
35. Lv, X.-L.[†]; **Feng, L.**[†]; 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. [Selected as Hot Paper](#)
34. Zhang, L.[†]; Yuan, S.[†]; **Feng, L.**[†]; 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.
33. **Feng, L.**[†]; Wang, Y.[†]; 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. [Back Cover](#)
32. Wang, K.-Y.; **Feng, L.**^{*}; Yan, T.-H.; Qin, J.-S.; Li, C.-X.; Zhou, H.-C.^{*}, Morphology Transcription in Hierarchical MOF-on-MOF Architectures, *ACS Materials Lett.* **2021**, *3*, 738–743. [Mentee as 1st Author](#)
31. **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.
30. Wang, Y.[†]; **Feng, L.**[†]; 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. [Inside Back Cover](#)
29. Wang, Y.[†]; **Feng, L.**[†]; 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. [Front Cover](#)
28. **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.

27. **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.
26. **Feng, L.**[†]; Wang, K.-Y.[†]; Day, G.; Zhou, H.-C., The Chemistry of Multi-Component and Hierarchical Framework Compounds, *Chem. Soc. Rev.* **2019**, *48*, 4823–4853.
25. Kirchon, A.[†]; **Feng, L.**[†]; Drake, H. F.[†]; 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.
24. **Feng, L.**[†]; Wang, K.-Y.[†]; Joseph, E.; Zhou, H.-C., Catalytic Porphyrin Framework Compounds, *Trends Chem.* **2020**, *2*, 555–568. *Selected as Front Cover*
23. **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. *Selected as Front Cover*
22. **Feng, L.**[†]; Wang, K.-Y.[†]; Willman, J.; Zhou, H.-C., Hierarchy in Metal-Organic Frameworks, *ACS Cent. Sci.* **2020**, *6*, 359–367.
21. **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. *Highlighted by EurekAlert!*

Contributing-Author Publications (20)

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. *Mentee as 1st Author | Highlighted by DOE-EFRC Center for Gas Separation*
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. *Selected as Back Cover | Rank 6 of Most Accessed Articles in January–September 2018: 5414 Full Text Access*
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 CO₂-to-CH₄ 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/H₂O-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. [Selected as Back Cover](#)
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 C₂H₂/CO₂ Separation, *J. Am. Chem. Soc.* **2020**, *142*, 8728–8737. [Selected as Back Cover](#)
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.
6. Tan, K.; Jensen, S.; Wang, H.; **Feng, L.**; Wei, K.; Zhou, H.-C.; Li, J.; Thonhauser, T., Thermally Activated Adsorption in Metal-Organic Frameworks with a Temperature-Tunable Diffusion Barrier Layer, *Angew. Chem. Int. Ed.* **2020**, *59*, 18468–18472. [Selected as Hot Paper](#)
5. Cure, J.; Mattson, E.; Kévin, 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.