

WENBIN LIN

1. PERSONAL

Wenbin Lin, James Franck Professor
TEL: (773) 834-7163
wenbinlin@uchicago.edu

Department of Chemistry, GCIS 519A
929 E 57th Street
Chicago, IL 60637

2. EDUCATION

Ph.D., 1994, University of Illinois at Urbana-Champaign, Urbana, Illinois (with Professors Gregory S. Girolami and Ralph G. Nuzzo)

B.S., 1988, University of Science and Technology of China, Hefei, China

3. PROFESSIONAL EXPERIENCE

The University of Chicago, James Franck Professor of Chemistry, 7/13 -; Member of UChicago Comprehensive Cancer Center, 2/14-; Professor of Radiation and Cellular Oncology, 2/18- .

University of North Carolina Chapel Hill, North Carolina 7/11 – 6/13, Kenan Distinguished Professor of Chemistry and Pharmacy

University of North Carolina Chapel Hill, North Carolina 7/07 – 6/11, Professor of Chemistry; 7/08-6/11, Professor of Pharmacy

University of North Carolina Chapel Hill, North Carolina 7/03 – 06/07, Associate Professor of Chemistry.

University of North Carolina Chapel Hill, North Carolina 7/01 – 6/03, Assistant Professor of Chemistry.

Brandeis University Waltham, Massachusetts 7/97 – 6/01, Assistant Professor of Chemistry.

NSF Postdoctoral Fellow., 1994-97, Northwestern University (with Ipatieff Professor Tobin J. Marks)

4. HONORS AND AWARDS

Fellow, European Academy of Sciences, 2023

O'Keanos-CAPA Senior Investigator Award at the Chemical and Biology Interface, 2018

James Franck Professorship, The University of Chicago, July 2013-

Kenan Distinguished Professorship, UNC-Chapel Hill, 2011-2013

AAAS Fellow, elected in 2011

Selected to be on the "top 100 chemists" list based on per article citations from 2000-2010

Selected to be on the "top ten chemists" list based on per article citations from 1999-2009

Specially Appointed Professor, Hokkaido University, Japan, 2008

Reynold Research Leave Award, UNC-CH, 2007-2008

Camille Dreyfus Teacher-Scholar Award, 2001 – 2006

Arnold and Mabel Beckman Young Investigator Award, 2000 – 2003

Research Corporation Cottrell Scholar Award, 2000 - 2002

Alfred P. Sloan Research Fellowship, 2000 – 2002

DuPont Educational Aid Award, 2000

National Science Foundation CAREER Award, 1999 - 2004

National Science Foundation Postdoctoral Fellowship, 1995 - 97

T.S.Piper Award for Graduate Research in Chemistry, University of Illinois, 1994

University of Illinois Department of Chemistry Fellowship, 1991 - 93

Univ. of Sci&Tech of China Yi-li-da Award for Excellence of Undergraduate Research, 1988

University of Science and Technology of China Fellowship, 1984-86

LECTURESHIPS

Xingda Lectureship, College of Chemistry and Molecular Engineering, Peking University, 2019

Illinois Distinguished Lecture in Inorganic Chemistry, University of Illinois, 2018

Nakamoto Distinguished Lecture in Chemistry, Marquette University, 2018

Inaugural Eastman Lecturer, UIUC, 2011

Naff Symposium Lecturer, Univ of Kentucky, 2008

Advance distinguished lectureship, Kansa State University, 2007

OTHER ACADEMIC AND ENTREPRENEURIAL ACTIVITIES

College of Science External Advisor, Hong Kong University of Science and Technology, 2023-
Department of Chemistry Academic Advisor, City University of Hong Kong, 2019-2023
RiMO Therapeutics Inc, Founder and Chairman, 2015-2018
Coordination Pharmaceuticals Inc, Founder and Chairman, 2015-present
Acting Chair, Physical Science Panel of Hong Kong Research Grants Council, 2012-2013
Regular Member, NIH NANO Study Section, 2012-2016
Member, Physical Science Panel of Hong Kong Research Grants Council, 2009-2014
Advisory Board Member, *National Science Review*, China, 2022-present
Advisory Board Member, *Precision Chemistry*, 2022-present
Advisory Board Member, *Giant*, 2022-present
Advisory Board Member, *Mater. Chem. Frontiers* 2016-present
Advisory Board Member, *Inorg. Chem. Frontiers* 2014-present
Advisory Board Member, *Chem. Mater.*, 2013-2020
Advisory Board Member, *Asian J. Org. Chem.*, 2012-present
Advisory Board Member, *ACS Catal.*, 2011-2015
Advisory Board Member, *Chem. Sci.*, 2010-2023
Advisory Board Member, *CrystEngComm*. 2006-2008
Advisory Board Member, *Chinese J. Struct. Chem.* since 2004
Member of Overseas Advisory Group, Chinese Academies of Sciences since 2004
Member, American Chemical Society
Member, Materials Research Society

5. PUBLICATIONS (total citations > 75,000; h-index ≥ 133)

430. "Nanoscale Metal-Organic Layer Reprograms Cellular Metabolism to Enhance Photodynamic Therapy and Antitumor Immunity." Lin, G.; Tillman, L.; Luo, T.; Fan, Y.; Jiang, X.; Liu, G.; Lin, W. *J. Am. Chem. Soc.*, in revision.
429. "Nanoparticle-induced STING activation disrupts tumor vasculature to overcome the EPR limitation and increase drug deposition for tumor eradication." Jiang, X.; Luo, T.; Yang, K.; Lee, M.J.; Liu, J.; Tillman, L.; Zhen, W.; Weichselbaum, R.R.; Lin, W. *Nat. Commun.* in revision.
428. "A Nanoscale Covalent Organic Framework with Staggered Stacking of Phthalocyanines for Mitochondria-Targeted Photodynamic Therapy." Liu, J.; Kang, D.W.; Fan, Y.; Nash, G.T.; Jiang, X.; Weichselbaum, R.R.; Lin, W. *J. Am. Chem. Soc.*, <https://doi.org/10.1021/jacs.3c11092>.
427. "A Spirobifluorene-based Covalent Organic Framework for Dual Photoredox and Nickel Catalysis." Fan, Y.; Kang, D.W.; Labalme, S.; Lin, W. *J. Am. Chem. Soc.*, **2023**, in press.
426. "Nanoscale Coordination Polymer Synergizes Photodynamic Therapy and Toll-Like Receptor Activation for Enhanced Antigen Presentation and Antitumor Immunity." Jiang, X.; Liu, J.; Lee, M.J.; Peng, C.; Luo, T.; Tillman, L.; Weichselbaum, R.R. Lin, W. *Biomaterials* **2023**, in press.
425. "Diaryl Dihydrophenazine-Based Porous Organic Polymers Enhance Synergistic Catalysis in Visible-Light-Driven Organic Transformations." Cheng, Y.; Li, Y.-X.; Liu, C.-H., Zhu, Y.-Y.; Lin W. *Angew. Chem. Int. Ed.* **2023**, in press.
424. "Mechanoregulatory Cholesterol Oxidase-Functionalized Nanoscale Metal-Organic Framework Stimulates Pyroptosis and Reinvigorates T cells." Zhen, W.; Luo, T.; Wang, Z.; Jiang, X.; Yuan, E.; Weichselbaum, R.R.; Lin, W. *Small*, **2023**, in press.
423. "Generation and Stabilization of A Dinickel Catalyst in A Metal-Organic Framework for Selective Hydrogenation Reactions." Guo, Q.-Y.; Wang, Z.; Feng, X.; Fan, Y.; Lin, W. *Angew. Chem. Int. Ed.* **2023**, in press.
422. "Co-delivery of Three Synergistic Chemotherapeutics in A Core-Shell Nanoscale Coordination Polymer for the Treatment of Pancreatic Cancer." Jiang, X.; Lee, M.J.; Luo, T.; Tillman, L.; Lin, W. *Biomaterials* **2023**, in press.
421. "Nanoscale Metal-Organic Frameworks with an X-ray Triggerable Prodrug for Synergistic Radiotherapy and Chemotherapy." Xu, Z.; Zhen, W.; McCleary, C.; Luo, T.; Jiang, X.; Peng, C.; Weichselbaum, R.R.; Lin, W. *J. Am. Chem. Soc.* **2023**, *145*, 18698-18704.
420. "Sequential Modifications of Metal-Organic Layer Nodes for Highly Efficient Photocatalyzed Hydrogen Atom Transfer." Zheng, H.; Fan, Y.; Lin, W. *J. Am. Chem. Soc.* **2023**, *145*, 9994-1000.
419. "Self-Assembled Nanophotosensitizer Targets Lysosomes and Induces Lysosomal Membrane

- Permeabilization to Enhance Photodynamic Therapy.” Li, Y.; Han, W.; Gong, D.; Luo, T.; Fan, Y.; Mao, J.; Qin, W.; Lin, W. *Chem. Sci.* **2023**, *14*, 5106-5115.
418. “A Self-Adaptive Metal-Organic Framework Assembles Diiron Active Sites to Mimic Monooxygenases.” Wang, Z.; Yeary, P.; Feng, X.; Lin, W. *J. Am. Chem. Soc.* **2023**, in press.
417. “Metal-Organic Layer Delivers 5-Aminolevulinic Acid and Porphyrin for Dual-Organelle-Targeted Photodynamic Therapy.” Luo, T.; Fan, Y.; Mao, J.; Jiang, X.; Albano, L.; Yuan, E.; Germanas, T.; Lin, W. *Angew. Chem. Int. Ed.* **2023**, *62*, e202301910.
416. “Platinum-based combination nanomedicines for cancer therapy.” Li, Y.; Lin, W. *Curr. Opin. Chem. Biol.* **2023**, *74*, 102290.
415. “Two-Dimensional Nanosensitizers Facilitate Energy Transfer to Enhance Sonodynamic Therapy.” Lin, G.; Nash, G.T.; Luo, T.; Ghosh, I.; Sohoni, S.; Christofferson, A.J.; Liu, G.; Engel, G.S.; Lin, W. *Adv. Mater.* **2023**, *35*, e2212069.
414. “Pharmacological ascorbate potentiates combination nanomedicines and reduces cancer cell stemness to prevent post-surgery recurrence and systemic metastasis.” Jiang, X.; Liu, J.; Mao, J.; Han, W.; Fan, Y.; Luo, T.; Xia, J.; Lee, M.; Lin, W. *Biomaterials*, **2023**, *295*, 122037.
413. “Molecular Engineering of Metal-Organic Layers for Sustainable Tandem and Synergistic Photocatalysis.” Fan, Y.; Zheng, H.; Labalme, S.; Lin, W. *J. Am. Chem. Soc.* **2023**, in press.
412. “Synthesis and Characterization of Ether Adducts of Thorium Tetrahydroborate, Th(BH₄)₄, and Chemical Vapor Deposition of Thorium Boride Thin Films.” Dunbar, A.C.; Gozum, J.E.; Lin, W.; Flores, V.J.; Girolami, G.S. *Inorg. Chem.* **2023**, *62*, 4106-4115.
411. “Enhanced Energy Transfer in A π -Conjugated Covalent Organic Framework Facilitates Excited-State Nickel Catalysis.” Fan, Y.; Kang, D. W.; Labalme, S.; Li, J.; Lin, W. *Angew. Chem. Int. Ed.* **2023**, *62*, e202218908.
410. “A Three-in-One Nanoscale Coordination Polymer for Potent Chemo-Immunotherapy.” Liu, J.; Jiang, X.; Feng, X. Lee, M.J.; Li, Y.; Mao, J.; Weichselbaum, R.R.; Lin, W. *Small Methods* **2023**, doi: 10.1002/smt.202201437.
409. “Nanoparticle-Mediated Radiotherapy Remodels the Tumor Microenvironment to Enhance Antitumor Efficacy.” Zhen, W.; Weichselbaum, R.R.; Lin, W. *Adv. Mater.* **2023**, doi: 10.1002/adma.202206370.
408. “Two-Stage SN38 Release from A Core-Shell Nanoparticle Enhances Tumor Deposition and Antitumor Efficacy for Synergistic Combination with Immune Checkpoint Blockade.” Jiang, X.; Liu, J.; Lee, M.J.; Xia, J.; Luo, T.; Rodriguez, M.; Lin, W. *ACS Nano*, **2022**, *16*, 21417-21430.
407. “A Chiral Covalent-Organic Framework for Asymmetric Photooxidation in Water.” Zheng, H.; Lin, W. *Chem. Catal.* **2022**, *2*, 2820-2822.
406. “Monte Carlo Simulation-Guided Design of a Thorium-Based Metal-Organic Framework for Efficient Radiotherapy-Radiodynamic Therapy.” Xu, Z.; Luo, T.; Mao, J.; McCleary, C.; Yuan, E.; Lin, W. *Angew. Chem. Int. Ed.* **2022**, *61*, e220208685.
405. “TLR3 agonist nanoscale coordination polymer synergizes with immune checkpoint blockade for immunotherapy of cancer.” Li, Y.; Jiang, X.; Luo, T.; Xia, J.; Lee, M.J.; Weichselbaum, R.R.; Lin, W. *Biomaterials* **2022**, *290*, 121831.
404. “Nanoscale Metal-Organic Frameworks for Photodynamic Therapy and Radiotherapy.” Mao, J.; Xu, Z.; Lin, W. *Curr. Opin. Chem. Eng.* **2022**, *38*, 100871.
403. “Moderate Low UVB Irradiation Modulates Tumor-associated Macrophages and Dendritic Cells and Promotes Antitumor Immunity in Tumor-bearing Mice.” Park, G.; Cuim Y.-H.; Yang, S.; Sun, M.; Wilkinson, E.; Li, H.; Zhang, Y.B.; Chen, J.; Bissonnette, M.; Lin, W.; He, Y.-Y. *Photochem. Photobiol.* **2022**, doi: 10.1111/php.13684.
402. “Biomimetic active sites on monolayered metal-organic frameworks for artificial photosynthesis.” Lan, G.; Fan, Y.; Shi, W.; You, E.; Veroneau, S.S.; Lin, W. *Nat. Catal.* **2022**, *5*, 1006-1018.
401. “Zinc-c-di-AMP nanoparticles target and suppress tumors via endothelial STING activation and tumor associated macrophage reinvigoration.” Yang, K.; Han, W.; Jiang, X.; Piffko, A.; Bugno, J.; Han, C.; Li, S.; Liang, H.; Xu, Z.; Zheng, W.; Wang, L.; Wang, J.; Huang, X.; Ting, J.P.Y.; Fu, X.-Y.; Lin, W.; Weichselbaum, R.R. *Nat. Nanotech.* **2022**, *17*, 1322-1331.
400. “Two-Dimensional Nanoradiosensitizer Enhances Radiotherapy and Delivers STING Agonists to Potentiate Cancer Immunotherapy.” Luo, T.; Nash, G.T.; Jiang, X.; Feng, X.; Mao, J.; Liu, J.; Juloori, A.; Pearson, A.T.; Lin, W. *Adv. Mater.* **2022**, e2110588.
399. “Site Isolation in Metal-Organic Layers Enhances Photoredox Gold Catalysis.” Zheng, H.; Fan, Y.; Song, Y.; Chen, J.S.; You, E.; Labalme, S.; Lin, W. *J. Am. Chem. Soc.* **2022**, *144*, 10694-10699.

398. "Tumor-Activatable Nanoparticles Target Low-Density Lipoprotein Receptor to Enhance Drug Delivery and Antitumor Efficacy." Jiang, X.; Han, W.; Liu, J.; Mao, J.; Lee, M.J.; Rodriguez, M.; Li, Y.; Luo, T.; Xu, Z.; Yang, K.; Bissonnette, M.; Weichselbaum, R.R.; Lin, W. *Adv. Sci.* **2022**, *9*, 2201614.
397. "Direct photo-oxidation of methane to methanol over a mono-iron-hydroxyl site." An, B.; Li, Z.; Wang, Z.; Zeng, X.; Han, X.; Cheng, Y.; Sheveleva, A.M.; Zhang, Z.; Tuna, F.; McInnes, E.J.L.; Frogley, M.D.; Ramirez-Cuesta, A.J.; Natrajan, L.; Wang, C.; Lin, W.; Yang, S.; Schröder, M. *Nat. Mater.* **2022**, *21*, 932-938.
396. "Dimensional Reduction Enhances Photodynamic Therapy of Metal-Organic Nanophotosensitizers." Luo, T.; Fan, Y.; Mao, J.; Yuan, E.; You, E.; Xu, Z.; Lin, W. *J. Am. Chem. Soc.* **2022**, *144*, 5241- 5246.
395. "Synergistic checkpoint-blockade and radiotherapy–radiodynamic therapy via an immunomodulatory nanoscale metal–organic framework." Ni, K.; Xu, Z.; Culbert, A.; Luo, T.; Guo, N.; Yang, K.; Pearson, E.; Preusser, B.; Wu, T.; La Riviere, P.; Weichselbaum, R.R.; Spiotto, M.T.; Lin, W. *Nat. Biomed. Eng.* **2022**, *6*, 144-156. DOI: 10.1038/s41551-022-00846-w. (U01–CA198989, 1R01CA253655, and PC170934P2)
394. "Co-delivery of Dihydroartemisinin and Pyropheophorbide-Iron Elicits Ferroptosis to Potentiate Cancer Immunotherapy." Han, H.; Duan, X.; Ni, K.; Li, Y.; Chan, C.; Lin, W. *Biomaterials* **2022**, *280*, 121315.
393. "Light-driven Proton Transport across Liposomal Membranes Enabled by Janus Metal-Organic Layers." Hu, H.; Zhu, J.; Cao, L.; Wang, Z.; Gao, Y.; Yang, L.; Lin, W.; Wang, C. *Chem.* **2022**, *8*, 450-464.
392. "A Substrate-Binding Metal-Organic Layer Selectively Catalyzes Photoredox Ene-Carbonyl Reductive Coupling Reactions." Fan, Y.; You, E.; Xu, Z.; Lin, W. *J. Am. Chem. Soc.* **2021**, *143*, 18871-18876.
391. "Reprogramming of Neutrophils as Non-Canonical Antigen Presenting Cells by Radiotherapy-Radiodynamic Therapy to Facilitate Immune-Mediated Tumor Regression." Guo, N.; Ni, K.; Luo, T.; Lan, G.; Arina, A.; Xu, Z.; Mao, J.; Weichselbaum, R.R.; Spiotto, M.T.; Lin, W. *ACS Nano*, **2021**, *15*, 17515-17527.
390. "Bifunctional Metal-Organic Layers for Tandem Catalytic Transformations Using Molecular Oxygen and Carbon Dioxide." Shi, W.; Quan, Y.; Lan, G.; Ni, K.; Song, Y.; Jiang, X.; Wang, C.; Lin, W. *J. Am. Chem. Soc.* **2021**, *143*, 16718-16724.
389. "Nanoscale Coordination Polymers for Combined Chemotherapy and Photodynamic Therapy of Metastatic Cancer." Li, Y.; Han, W.; He, C.; Jiang, X.; Fan, Y.; Lin, W. *Bioconjugate Chem.* **2021**, *32*, 2318-2326.
388. "Dimethylaminomichelolide Sensitizes Cancer Cells to Radiotherapy for Synergistic Combination with Immune Checkpoint Blockade." Li, Y.; Ni, K.; Chan, C.; Guo, N.; Luo, T.; Han, W.; Culbert, A.; Weichselbaum, R.R.; Lin, W. *Adv. Therap.* **2021**, 2100160. DOI: 10.1002/adtp.202100160.
387. "Nanoscale Metal-Organic Layers for Biomedical Applications." Xu, Z.; Luo, T.; Lin, W. *Acc. Mater. Res.* **2021**, *2*, 944-953.
386. "Multi-Cuprous Centers Supported on a Titanium-Based Metal-Organic Framework Catalyze CO₂ Hydrogenation to Ethylene." Zeng, L.; Cao, Y.; Li, Z.; Dai, Y.; Wang, Y.; An, B.; Zhang, J.; Li, H.; Zhou, Y.; Lin, W.; Wang, C. *ACS Catal.* **2021**, *11*, 11696-11705.
385. "Nanoscale Metal-Organic Framework Confines Zinc-Phthalocyanine Photosensitizers for Enhanced Photodynamic Therapy." Luo, T.; Nash, G.T.; Xu, Z.; Jiang, X.; Liu, J.; Lin, W. *J. Am. Chem. Soc.* **2021**, *143*, 13519-13524. (U01–CA198989, 1R01CA253655)
384. "Monte Carlo Simulations Reveal New Design Principles for Efficient Nanoradiosensitizers Based on Nanoscale Metal-Organic Frameworks." Xu, Z.; Ni, K.; Mao, J.; Luo, T.; Lin, W. *Adv. Mater.* **2021**, *40*, e2104249. doi: 10.1002/adma.202104249. (U01–CA198989, 1R01CA253655, and PC170934P2)
383. "From 3D to 2D: Multifunctional Metal-Organic Layers for Organic Synthesis." Feng, X.; Lin, W. *Matter*, **2021**, *4*, 2683-2685. doi: 10.1016/j.matt.2021.07.009
382. "Chemical Looping Conversion of Ethane to Ethanol via Photo-assisted Nitration of Ethane." He, X.; Li, Z.; Hu, H.; Chen, J.; Zeng, L.; Zhang, J.; Lin, W.; Wang, C. *Cell Rep. Phys. Sci.* **2021**, *2*, 100481.
381. "Neighboring Zn-Zr Sites in a Metal-Organic Framework for CO₂ Hydrogenation." Zhang, J.; An, B.; Li, Z.; Cao, Y.; Dai, Y.; Wang, W.; Zeng, L.; Lin, W.; Wang, C. *J. Am. Chem. Soc.* **2021**, *143*, 8829- 8837. doi: 10.1021/jacs.1c03283.
380. "Dimensional Reduction of Lewis Acidic Metal-Organic Frameworks for Multicomponent Reactions." Feng, X.; Song, Y.; Lin, W. *J. Am. Chem. Soc.* **2021**, *143*, 8184-8192. doi: 10.1021/jacs.1c03561.
379. "H-Bond Mediated Selectivity Control of Formate versus CO during CO₂ Photoreduction with Two

- Cooperative Cu/X Sites.” Zhuo, T.-C.; Song, Y.; Zhuang, G.-L.; Chang, L.-P.; Yao, S.; Zhang, W.; Wang, Y.; Wang, P.; Lin, W.; Lu, T.-B.; Zhang, Z.-M. *J. Am. Chem. Soc.* **2021**, *143*, 6114-6122.
378. “Bifunctional Metal-Organic Layer with Organic Dyes and Iron Centers for Synergistic Photoredox Catalysis.” Quan, Y.; Shi, W.; Song, Y.; Jiang, X.; Wang, C.; Lin, W. *J. Am. Chem. Soc.* **2021**, *143*, 3075-3080. doi: 10.1021/jacs.1c01083
377. “Nanoscale Metal-Organic Layer Isolates Phthalocyanines for Efficient Mitochondria-Targeted Photodynamic Therapy.” Nash, G.T.; Luo, T.; Lan, G.; Ni, K.; Kaufmann, M.; Lin, W. *J. Am. Chem. Soc.* **2021**, *143*, 2194-2199. doi: 10.1021/jacs.0c12330 (U01-CA198989 and 1R01CA253655)
376. “Integration of Earth-Abundant Photosensitizers and Catalysts in Metal-Organic Frameworks Enhances Photocatalytic Aerobic Oxidation.” Feng, X.; Pi, Y.; Song, Y.; Xu, Z.; Li, Z.; Lin, W. *ACS Catal.* **2021**, *11*, 1024-1032. doi.org: 10.1021/acscatal.0c05053.
375. “Supramolecular metal-based nanoparticles for drug delivery and cancer therapy.” Jiang, X.; He, C.; Lin, W. *Current Opinion Chem. Biol.* **2021**, *61*, 143-153. (1R01CA223184 and 1R01CA216436)
374. “Nanoscale Metal-Organic Layers Detect Mitochondrial Dysregulation and Chemoresistance via Ratiometric Sensing of Glutathione and pH.” Ling, X.; Gong, D.; Shi, W.; Xu, Z.; Han, W.; Lan, G.; Li, Y.; Qin, W.; Lin, W.; *J. Am. Chem. Soc.* **2021**, *143*, 1294-1289. doi: 10.1021/jacs.0c11764 (U01-CA198989 and 1R01CA253655)
373. “Point-source burst of coordination polymer nanoparticles for tri-modality cancer therapy.” Ling, X.; Han, W.; Jiang, X.; Chen, X.; Rodriguez, M.; Zhu, P.; Wu, T.; Lin, W. *Biomaterials* **2021**, *270*:120690. doi: 10.1016/j.biomaterials.2021.120690 (1R01CA223184 and 1R01CA216436)
372. “Metal-organic layers as reusable solid fluorination reagents and heterogeneous catalysts for aromatic fluorination.” Shi, W.; Zeng, L.; Cao, L.; Huang, Y.; Wang, C.; Lin, W. *Nano. Res.* **2021**, *14*, 473-478.
371. “Rational Construction of an Artificial Binuclear Copper Monooxygenase in a Metal-organic Framework.” Feng, X.; Song, Y.; Chen, J.S.; Xu, Z.; Dunn, S.J.; Lin, W. *J. Am. Chem. Soc.* **2021**, *143*, 1107-1118. doi: 10.1021/jacs.0c11920.
370. “Sequential Treatment of Bioresponsive Nanoparticles Elicits Antiangiogenesis and Apoptosis and Synergizes with A CD40 Agonist for Antitumor Immunity.” Ling, X.; Jiang, X.; Li, Y.; Han, W.; Rodriguez, M.; Xu, Z.; Lin, W. *ACS Nano*, **2021**, *15*, 765-780. doi: 10.1021/acsnano.0c07132 (1R01CA223184 and 1R01CA216436)
369. “Metal-Organic Layers Hierarchically Integrate Three Synergistic Active Sites for Tandem Catalysis.” Quan, Y.; Lan, G.; Shi, W.; Xu, Z.; Fan, F.; You, E.; Jiang, X.; Wang, W.; Lin, W. *Angew. Chem. Int. Ed.* **2021**, *60*, 3115-3120. <https://doi.org/10.1002/anie.202011519>
368. “Metal-organic frameworks embedded in a liposome facilitate overall photocatalytic water splitting.” Hu, H.; Wang, Z.; Cao, L.; Zeng, L.; Zhang, C.; Lin, W.; Wang, C. *Nat. Chem.* **2021**, *13*, 358-366. doi: 10.1038/s41557-020-00635-5
367. “Metal-Organic Frameworks for Catalytic Applications.” Song, Y.; Feng, X.; Lin, W. *Comp. Coord. Chem. III*, **2021**, 228-259. <https://doi.org/10.1016/B978-0-08-102688-5.00025-8>.
366. “Transforming Hydroxide-Containing Metal-Organic Framework Nodes for Transition Metal Catalysis.” Feng, X.; Song, Y.; Lin, W. *Trends Chem.* **2020**, <https://doi.org/10.1016/B978-0-08-102688-5.00025-8>.
365. “Tunable Cobalt-Polypyridyl Catalysts Supported on Metal-Organic Layers for Electrochemical CO₂ Reduction at Low Overpotentials.” Guo, Y.; Wang, Y.; Shen, Y.; Cai, Z.; Li, Z.; Liu, J.; Lin, W.; Wang, C. *J. Am. Chem. Soc.* **2020**, *142*, 21493-21501. <https://doi.org/10.1021/jacs.0c10719>
364. “Nanoscale Metal-organic Frameworks for X-ray Activated *in situ* Cancer Vaccination.” Ni, K.; Lan, G.; Guo, N.; Culbert, A.; Luo, T.; Wu, T.; Weichselbaum, R.R.; Lin, W. *Sci. Adv.* **2020**, *6*: eabb5223. (U01-CA198989, 1R01CA253655, and PC170934P2)
363. “Nanoscale Metal-Organic Framework Co-delivers TLR-7 Agonists and Anti-CD47 Antibodies to Modulate Macrophages and Orchestrate Cancer Immunotherapy.” Ni, K.; Luo, T.; Culbert, A.; Kaufmann, M.; Jiang, X.; Lin, W. *J. Am. Chem. Soc.* **2020**, *142*, 12579-12584. doi: 10.1021/jacs.0c05039. (U01-CA198989 and PC170934P2)
362. “Nanoscale Metal-Organic Frameworks for Cancer Immunotherapy.” Ni, K.; Luo, T.; Nash, G.; Lin, W. *Acc. Chem. Res.* **2020**, *53*, 1739-1748. (U01-CA198989, 1R01CA253655, and PC170934P2)
361. “Metal-Organic Frameworks Integrate Cu Photosensitizers and SBU-Supported Fe Catalysts for Photocatalytic Hydrogen Evolution.” Pi, Y.; Feng, X.; Song, Y.; Xu, Z.; Li, Z.; Lin, W. *J. Am. Chem. Soc.* **2020**, *142*, 10302-10307. doi: 10.1021/jacs.0c03906. (CHE-1464941)
360. “Nanoscale Metal-Organic Frameworks Generate Reactive Oxygen Species for Cancer Therapy.” Ni, K.;

- Lan, G.; Lin, W. *ACS Cent. Sci.* **2020**, *6*, 861-868. doi: 10.1021/acscentsci.0c00397. (U01- CA198989 and PC170934P2)
359. "Metal-Organic Framework with Dual Active Sites in Engineered Mesopores for Bioinspired Synergistic Catalysis." Quan, Y.; Song, Y.; Shi, W.; Xu, Z.; **Chen, J.S.**; Jiang, X.; Wang, C.; Lin, W. *J. Am. Chem. Soc.* **2020**, *142*, 8602-8607. doi: 10.1021/jacs.0c02966. (NSF)
358. "Machine Learning-Guided Morphology Engineering of Nanoscale Metal-Organic Frameworks." Chen, P.; Tang, Z.; Zeng, Z.; Hu, X.; Xiao, L.; Liu, Y.; Qian, X.; Deng, C.; Huang, R.; Zhang, J.; Bi, Y.; Zhou, Y.; Zhou, D.; Wang, C.; Lin, W. *Matter* **2020**, *6*, 1651-1666.
357. "Nanoscale Metal-Organic Frameworks Stabilize Bacteriochlorins for Type I and Type II Photodynamic Therapy." Luo, T.; Ni, K.; **Culbert, A.**; Lan, G.; Li, Z.; Jiang, X.; **Kaufmann, M.**; Lin, W. *J. Am. Chem. Soc.* **2020**, *142*, 7334-7339. doi: 10.1021/jacs.0c02129 (U01-CA198989)
356. "Biomimetic Nanoscale Metal-Organic Framework Harnesses Hypoxia for Effective Cancer Radiotherapy and Immunotherapy." Ni, K.; Lan, G.; Song, Y.; Hao, Z.; Lin, W. *Chem. Sci.*, **2020**, *11*, 7641-7653. (U01-CA198989 and PC170934P2)
355. "Cerium-based Metal-Organic Layers Catalyze Hydrogen Evolution Reaction through Dual Photoexcitation." Song, Y.; Pi, Y.; Feng, X.; Ni, K.; Xu, Z.; **Chen, J.S.**; Li, Z.; Lin, W. *J. Am. Chem. Soc.* **2020**, *142*, 6866-6871. doi: 10.1021/jacs.0c00679. (CHE-1464941)
354. "Highly Dispersed Ni Catalyst on Metal-Organic Framework-Derived Porous Hydrous Zirconia for CO₂ Methanation." Zeng, L.; Wang, Y.; Li, Z.; Song, Y.; Zhang, J.; Wang, J.; He, X.; Wang, C.; Lin, W. *ACS Appl. Mater. Interfaces.* **2020**, *12*, 17436-17442. doi: 10.1021/acscami.9b23277.
353. "Multistep Engineering of Synergistic Catalysts in a Metal-Organic Framework for Tandem C-O Bond Cleavage." Song, Y.; Feng, X.; **Chen, J.S.**; **Brzezinski, C.**; Xu, Z.; Lin, W. *J. Am. Chem. Soc.* **2020**, *142*, 4872-4882. doi: 10.1021/jacs.0c00073. (CHE-1464941)
352. "Intratamoral Accumulation of Gut Microbiota Facilitates CD47-based Immunotherapy via STING Signaling." Shi, Y.; Zheng, W.; Yang, K.; Harris, K.; Ni, K.; Xue, L.; Lin, W.; Chang, E.; Weichselbaum, R.R.; Fu, Y.-X. *J. Exp. Med.* **2020**, *217*, e20192282. doi: 10.1084/jem.20192282.
351. "Metal-Organic Layers for Synergistic Lewis Acid and Photoredox Catalysis." Quan, Y.; Lan, G.; Fan, Y.; Shi, W.; **You, E.**; Lin, W. *J. Am. Chem. Soc.* **2020**, *142*, 1746-1751. doi: 10.1021/jacs.9b12593. (NSF)
350. "Metal-Organic Frameworks Significantly Enhance Photocatalytic Hydrogen Evolution and CO₂ Reduction with Earth-Abundant Copper Photosensitizers." Feng, X.; Pi, Y.; Song, Y.; **Brzezinski, C.**; Xu, Z.; Li, Z.; Lin, W. *J. Am. Chem. Soc.* **2020**, *142*, 690-695. doi: 10.1021/jacs.9b12229. (CHE- 1464941)
349. "Photo-Activation of Cu Centers in Metal-Organic Frameworks for Selective CO₂ Conversion to Ethanol." Zeng, L.; Wang, Z.; Wang, Y.; Wang, J.; Guo, Y.; He, X.; Wang, C.; Lin, W. *J. Am. Chem. Soc.* **2020**, *142*, 75-79. doi: 10.1021/jacs.9b11443.
348. "Nanoscale Metal-organic Frameworks Mediate Photodynamic Therapy and Deliver CpG Oligodeoxynucleotides to Enhance Antigen Presentation and Cancer Immunotherapy." Ni, K.; Luo, T.; Lan, G.; **Culbert, A.**; Song, Y.; Wu, T.; Jiang, X.; Lin, W. *Angew. Chem. Int. Ed.* **2020**, *59*, 1124- 1128. doi: 10.1002/anie.201911429. (U01-CA198989 and 1R01CA216436)
347. "Synergistic Effect over Sub-nm Pt Nanocluster@MOFs Significantly Boosts Photooxidation of N-alkyl(iso)quinolinium Salts." Fu, S.-S.; Ren, X.-Y.; Guo, S.; Lan, G.; Zhang, Z.-M.; Lu, T.-B.; Lin, W. *iScience* **2020**, *23*, 100793. doi: 10.1016/j.isci.2019.100793.
346. "Multifunctional Nanoscale Metal-Organic Layers for Ratiometric pH and Oxygen Sensing." Lan, G.; Ni, K.; **You, E.**; Wang, M.; **Culbert, A.**; Jiang, X.; Lin, W. *J. Am. Chem. Soc.* **2019**, *141*, 18964- 18969. doi: 10.1021/jacs.9b11024. (U01-CA198989 and 1R01CA216436)
345. "Cooperative Stabilization of the [Pyridinium-CO₂-Co] Adduct on a Metal-Organic Layer Enhances Electrocatalytic CO₂ Reduction." Guo, Y.; Shi, W.; Yang, H.; He, Q.; Zeng, Z.; Ye, J.Y.; He, X.; Huang, R.; Wang, C.; Lin, W. *J. Am. Chem. Soc.* **2019**, *141*, 17875-17883. doi: 10.1021/jacs.9b09227.
344. "Metal-Organic Layers as Multifunctional Two-Dimensional Nanomaterials for Enhanced Photoredox Catalysis." Lan, G.; Quan, Y.; Wang, M.; Nash, G.T.; **You, E.**; Song, Y.; **Veroneau, S.S.**; Jiang, X.; Lin, W. *J. Am. Chem. Soc.* **2019**, *141*, 15767-15772. doi: 10.1021/jacs.9b08956. (NSF)
343. "Strongly Lewis Acidic Metal-Organic Frameworks for Continuous Flow Catalysis." Ji, P.; Feng, X.; **Oliveres, P.**; Li, Z.; Murakami, A.; Wang, C.; Lin, W. *J. Am. Chem. Soc.* **2019**, *141*, 14878-14888. doi: 10.1021/jacs.9b07891. (CHE-1464941)
342. "Titanium Hydroxide Secondary Building Units in Metal-Organic Frameworks Catalyze Hydrogen Evolution under Visible Light." Song, Y.; Li, Z.; Zhu, Y.; Feng, X.; **Chen, J.S.**; **Kaufmann, M.**; Wang, C.;

- Lin, W. *J. Am. Chem. Soc.* **2019**, *141*, 12219-12223. doi: 10.1021/jacs.9b05964. (CHE-1464941)
341. “Metal-Organic Framework Stabilizes a Low-Coordinate Iridium Complex for Catalytic Methane Borylation.” Feng, X.; Song, Y.; Li, Z.; Kaufmann, M.; Pi, Y.; Chen, J.S.; Xu, Z.; Li, Z.; Wang, C.; Lin, W. *J. Am. Chem. Soc.* **2019**, *141*, 11196-11203. doi: 10.1021/jacs.9b04285. (CHE-1464941)
340. “Cooperative Copper Centers in a Metal-Organic Framework for Selective Conversion of CO₂ to Ethanol.” An, B.; Li, Z.; Song, Y.; Zhang, J.; Zeng, L.; Wang, C.; Lin, W. *Nat. Catal.* **2019**, *2*, 709-717.
339. “Ultrathin metal-organic layer-mediated radiotherapy-radiodynamic therapy enhances immunotherapy of metastatic cancers.” Ni, K.; Lan, G.; Chan, C.; Duan, X.; Guo, N.; Veroneau, S.S.; Weichselbaum, R.R.; Lin, W. *Matter*, **2019**, *1*, 1331-1353. (U01-CA198989 and 1R01CA216436)
338. “Nanoscale Metal-Organic Framework Mediates Hormone- and Light-Triggered Radical Therapy to Enhance Cancer Immunotherapy.” Ni, K.; Theint Aung, T.; Li, S.; Fatuzzo, N.; Liang, X.; Lin, W. *Chem.*, **2019**, *5*, 1892-1913. doi: 10.1016/j.chempr.2019.05.013 (Retracted)
337. “Systemic miRNA delivery by nontoxic nanoscale coordination polymers limits epithelial-to-mesenchymal transition and suppresses liver metastases of colorectal cancer.” Chan, C.; Guo, N.; Duan, X.; Han, W.; Xue, L.; Bryan, D.; Wightman, S.C.; Khodarev, N.N.; Weichselbaum, R.R.; Lin, W. *Biomaterials*, **2019**, *210*, 94-104. (1R01CA216436-01A1)
336. “Nanoscale Metal-Organic Framework Hierarchically Combines High-Z Components for Multifarious Radio-enhancement.” Lan, G.; Ni, K.; Veroneau, S.S.; Luo, T.; You, E.; Lin, W. *J. Am. Chem. Soc.* **2019**, *141*, 6859-6863. (U01-CA198989 and 1R01CA216436)
335. “Luminescence Enhancement of *cis*-[Ru(bpy)₂(py)₂]²⁺ via Confinement within a Metal-Organic Framework.” Micheroni, D.; Lin, Z.; Chen, Y.-S.; Lin, W. *Inorg. Chem.*, **2019**, *58*, 7645-7648. (NSF-DMR)
334. “Immunostimulatory Nanomedicines Synergize with Checkpoint Blockade Immunotherapy to Eradicate Colorectal Tumors.” Duan, X.; Chan, C.; Han, W.; Guo, N.; Weichselbaum, R.R.; Lin, W. *Nat. Commun.* **2019**, *10*:1899. doi: 10.1038/s41467-019-09221-x. (1R01CA223184)
333. “A pyrocarbonate intermediate for CO₂ activation and selective conversion in bifunctional metal-organic frameworks.” An, B.; Meng, Y.; Li, Z.; Hong, Y.; Wang, T.; Wang, S.; Lin, J.; Wang, C.; Wan, S.; Wang, Y.; Lin, W. *J. Catal.* **2019**, *373*, 37-47. (none)
332. “Titanium-Based Nanoscale Metal-Organic Framework for Type I Photodynamic Therapy.” Lan, G.; Ni, K.; Veroneau, S.S.; Feng, X.; Nash, G.T.; Luo, T.; Xu, Z.; Lin, W. *J. Am. Chem. Soc.* **2019**, *141*, 4204-4208. doi: 10.1021/jacs.8b13804. (U01-CA198989 and 1R01CA216436)
331. “Aluminum Hydroxide Secondary Building Units in a Metal-Organic Framework Support Earth-Abundant Metal Catalysts for Broad-Scope Organic Transformations.” Feng, X.; Ji, P.; Li, Z.; Drake, T.; Oliveres, P.; Chen, E.Y.; Song, Y.; Wang, C.; Lin, W. *ACS Catal.* **2019**, *9*, 3327-3337. (CHE-1464941)
330. “Metal-Organic Framework Nodes Support Single-Site Nickel(II)-Hydride Catalysts for the Hydrogenolysis of Aryl Ethers.” Song, Y.; Li, Z.; Ji, P.; Kaufmann, M.; Feng, X.; Chen, J.S.; Wang, C.; Lin, W. *ACS Catal.* **2019**, *9*, 1578-1583. doi: 10.1021/acscatal.8b04611 (CHE-1464941)
329. “Cobalt-Bridged Secondary Building Units in a Titanium Metal-Organic Framework Catalyze Cascade Reduction of *N*-Heteroarenes.” Feng, X.; Song, Y.; Chen, J.S.; Li, Z.; Chen, E.Y.; Kaufmann, M.; Wang, C.; Lin, W. *Chem. Sci.* **2019**, *10*, 2193-2198. doi: 10.1039/c8sc04610g (CHE-1464941)
328. “Metal-Organic Frameworks in Solid-Gas Phase Catalysis.” Wang, C.; An, B.; Lin, W. *ACS Catal.* **2019**, *9*, 130-146. doi: 10.1021/acscatal.8b04055 (CHE-1464941)
327. “Nanoscale Metal-Organic Frameworks for Phototherapy of Cancer.” Lan, G.; Ni, K.; Lin, W. *Coord. Chem. Rev.* **2019**, *379*, 65-81. doi: 10.1016/j.ccr.2017.09.007 (U01)
326. “Nanoparticle-mediated Immunogenic Cell Death Enables and Potentiates Cancer Immunotherapy.” Duan, X.; Chan, C.; Lin, W. *Angew. Chem. Int. Ed.* **2019**, *58*, 670-680. doi: 10.1002/anie.201804882.
325. “Nanoscale Metal-Organic Layers for Radiotherapy-Radiodynamic Therapy.” Lan, G.; Ni, K.; Veroneau, S.S.; Song, Y.; Lin, W. *J. Am. Chem. Soc.* **2018**, *140*, 16971-16975. doi: 10.1021/jacs.8b11593. U01-CA198989
324. “Efficient Electrocatalytic Proton Reduction with Carbon Nanotube-Supported Metal-Organic Frameworks.” Micheroni, D.; Lan, G.; Lin, W. *J. Am. Chem. Soc.* **2018**, *140*, 15591-15595. doi: 10.1021/jacs.8b09521. (DMR-1308229)
323. “A Dynamically Stabilized Single-Nickel Electrocatalyst for Selective Reduction of Oxygen to Hydrogen Peroxide.” Wang, T.; Zeng, Z.; Cao, L.; Li, Z.; Hu, X.; An, B.; Wang, C.; Lin, W. *Eur. J. Chem.* **2018**, *24*, 17011-17018. doi: 10.1002/chem.201804312. (DMR-1308229)
322. “Two-Dimensional Metal-Organic Layers on Carbon Nanotubes to Overcome Conductivity Constraint

- in Electrocatalysis.” Yang, L.; Cao, L.; Huang, R.; Hou, Z.W.; Qian, X.Y.; An, B.; Xu, H.C.; Lin, W.; Wang, C. *ACS Appl. Mater. Interfaces*. **2018**, *10*, 36290-36296. doi: 10.1021/acsami.8b13356.
321. “Nanoscale Metal-Organic Frameworks for Mitochondria-Targeted Radiotherapy-Radiodynamic Therapy.” Ni, K.; Lan, G.; Veroneau, S.S.; Duan, X.; Song, Y.; Lin, W. *Nat. Commun.* **2018**, *9*: 4321. doi: 10.1038/s41467-018-06655-7. U01-CA198989
 320. “Merging Photoredox and Organometallic Catalysts in a Metal-Organic Framework Significantly Boosts Photocatalytic Activities.” Zhu, Y.-Y.; Lan, G.; Fan, Y.; Veroneau, S.S.; Song, Y.; Micheroni, D.; Lin, W. *Angew. Chem. Int. Ed. Engl.* **2018**, *57*, 14090-14094. doi: 10.1002/anie.201809493. (CHE-1464941)
 319. “Photosensitizing Metal-Organic Layers for Efficient Sunlight-Driven Carbon Dioxide Reduction.” Lan, G.; Li, Z.; Veroneau, S.S.; Zhu, Y.-Y.; Xu, Z.; Wang C.; Lin W. *J. Am. Chem. Soc.* **2018**, *140*, 12369-12373. doi: 10.1021/jacs.8b08357. (DMR-1308229)
 318. “Site Isolation in Metal-Organic Frameworks Enables Novel Transition Metal Catalysis.” Drake, T.; Ji, P.; Lin, W. *Acc. Chem. Res.* **2018**, *51*, 2129-2138. doi:10.1021/acs.accounts.8b00297.
 317. “Metal-Organic Layers Efficiently Catalyze Photoinduced Polymerization under Visible Light.” Xu, R.; Cai, Z.; Lan, G.; Lin, W. *Inorg. Chem.* **2018**, *57*, 10489-10493.
 316. “Tuning Lewis Acidity of Metal-Organic Frameworks via Perfluorination of Bridging Ligands: Spectroscopic, Theoretical, and Catalytic Studies.” Ji, P.; Drake, T.; Murakami, A.; Oliveres, P.; Skone, J.H.; Lin, W. *J. Am. Chem. Soc.* **2018**, *140*, 10553-10561. doi: 10.1021/jacs.8b05765.
 315. “Metal-Organic Layers Catalyze Photoreactions without Pore Size and Diffusion Limitations.” Xu, R.; Drake, T.; Lan, G.; Lin, W. *Eur. J. Chem.* **2018**, doi: 10.1002/chem.201803635. (DMR-1308229)
 314. “Nanoscale Metal-Organic Framework Overcomes Hypoxia for Photodynamic Therapy Primed Cancer Immunotherapy.” Lan, G.; Ni, K.; Xu, Z.; Veroneau, S.S.; Song, Y.; Lin, W. *J. Am. Chem. Soc.* **2018**, *140*, 5670-5673. (U01)
 313. “Electron Injection from Photoexcited Metal-Organic Framework Ligands to Ru₂ Secondary Building Units for Visible-Light-Driven Hydrogen Evolution.” Lan, G.; Zhu, Y.-Y.; Veroneau, S.S.; Xu, Z.; Micheroni, D.; Lin, W. *J. Am. Chem. Soc.* **2018**, *140*, 5326-5329. (DMR-1308229)
 312. “Nanoscale Metal-Organic Frameworks Enhance Radiotherapy to Potentiate Checkpoint Blockade Immunotherapy.” Ni, K.; Lan, G.; Chan, C.; Quigley, B.; Lu, K.; Aung, T.; Guo, N.; La Riviere, P.; Weichselbaum, R.R.; Lin, W. *Nat. Commun.* **2018**, *9*: 2351. doi: 10.1038/s41467-018-04703-w. (U01)
 311. “Low-dose X-ray Radiotherapy-Radiodynamic Therapy via Nanoscale Metal-Organic Frameworks Enhances Checkpoint Blockade Cancer Immunotherapy.” Lu, K.; He, C.; Guo, N.; Chan, C.; Ni, K.; Tang, H.; Pelizzari, C.; Fu, Y.-X.; Weichselbaum, R.R.; Lin, W. *Nat. Biomed. Eng.* **2018**, *2*, 600-610. DOI: 10.1038/s41551-018-0203-4. (U01)
 310. “Nanoscale Metal-Organic Frameworks for Therapeutic, Imaging, and Sensing Applications.” Lu, K.; Aung, T.; Guo, N.; Weichselbaum, R.R.; Lin, W. *Adv. Mater.* **2018**, *30*, e1707634. doi: 10.1002/adma.201707634.
 309. “Titanium(III)-Oxo Clusters in a Metal-Organic Framework Support Single-Site Co(II)-Hydride Catalysts for Arene Hydrogenation.” Ji, P.; Song, Y.; Drake, T.; Veroneau, S.S.; Lin, Z.; Pan, X.; Lin, W. *J. Am. Chem. Soc.* **2018**, *140*, 443-440. doi: 10.1021/jacs.7b11241
 308. “Metal-Organic Layers Stabilize Earth-Abundant Metal-Terpyridine Diradical Complexes for Catalytic C-H Activation.” Lin, Z.; Thacker, N.C.; Sawano, T.; Drake, T.; Ji, P.; Lan, G.; Cao, L.; Liu, S.; Wang, C.; Lin, W. *Chem. Sci.* **2018**, *9*, 143-151. DOI: 10.1039/C7SC03537C.
 307. “Charge-Regulated Sequential Adsorption of Anionic Catalysts and Cationic Photosensitizers into Metal-Organic Frameworks Enhances Photocatalytic Proton Reduction.” Li, H.; Yao, S.; Wu, H.-L.; Qu, J.-Y.; Zhang, Z.-M.; Lu, T.-B.; Lin, W.; Wang, E.B. *Applied Catal. B: Environ.* **2018**, *224*, 46-52. DOI: 10.1016/j.apcatb.2017.10.031.
 306. “Molecular Iridium Complexes in Metal-Organic Frameworks Catalyze CO₂ Hydrogenation via Concerted Proton and Hydride Transfer.” An, B.; Zeng, L.; Jia, M.; Li, Z.; Lin, Z.; Song, Y.; Zhou, Y.; Cheng, J.; Wang, C.; Lin, W. *J. Am. Chem. Soc.* **2017**, *139*, 17747-17750. doi: 10.1021/jacs.7b10922
 305. “Electrocatalytic Reduction of CO₂ to CO with 100% Faradaic Efficiency by Pyrolyzed Zeolitic Imidazolate Frameworks Supported on Carbon Nanotube Networks.” Guo, Y.; Yang, H.; Zhou, X.; Liu, K.; Zhang, C.; Zhou, Z.; Wang, C.; Lin, W. *J. Mater. Chem. A*, **2017**, *5*, 24867-24873.
 304. “Trivalent Zirconium and Hafnium MOFs for Catalytic 1,4-Dearomative Additions of Pyridines and Quinolines.” Ji, P.; Feng, X.; Veroneau, S.S.; Song, Y.; Lin, W. *J. Am. Chem. Soc.* **2017**, *139*, 15600-15603. doi: 10.1021/jacs.7b09093
 303. “Warm-White Light-Emitting Diode Based on a Dye-Loaded Metal-Organic Framework for Fast

- White-Light Communication.” Wang, Z.; Wang, Z.; Lin, B.; Hu, X.; Wei, Y.; Zhang, C.; An, B.; Wang, C.; Lin, W. *ACS Appl. Mater. Interfaces*, **2017**, *9*, 35253-35259. (none)
302. “Pyrolysis of Metal-Organic Frameworks to Hierarchical Porous Cu/Zn-Nanoparticle@Carbon Materials for Efficient CO₂ Hydrogenation.” Zhang, J.; An, B.; Hong, Y.; Meng, Y.; Hu, X.; Wang, C.; Lin, J.; Lin, W.; Wang, Y. *Mater. Chem. Front.* **2017**, *1*, 2405-2409.
301. “Nanoscale Metal-Organic Layers for Deeply Penetrating X-ray-Induced Photodynamic Therapy.” Lan, G.; Ni, K.; Xu, R.; Lu, K.; Lin, Z.; Chan, C.; Lin, W. *Angew. Chem. Int. Ed.* **2017**, *56*, 12102-12106. doi: 10.1002/anie.201704828. (U01)
300. “Transformation of Metal-Organic Framework Secondary Building Units into Hexanuclear Zr-Alkyl Catalysts for Ethylene Polymerization.” Ji, P.; Solomon, J.B.; Lin, Z.; Johnson, A.; Jordan, R.F.; Lin, W. *J. Am. Chem. Soc.* **2017**, *139*, 11325-11328.
299. Through-space Förster-type Energy Transfer in Isostructural Zirconium and Hafnium-based Metal-Organic Layers.” Wang, Z.; Liu, Y.; Wang, Z.; Cao, L.; Zhao, Y.; Wang, C.; Lin, W. *Chem. Commun.* **2017**, *53*, 9356-9359. (none)
298. “Surface Modification of Two-Dimensional Metal-Organic Layers Creates Biomimetic Catalytic Microenvironments for Selective Oxidation.” Shi, W.; Cao, L.; Zhang, H.; Zhou, X.; An, B.; Lin, Z.; Dai, R.; Li, J.; Wang, C.; Lin, W. *Angew. Chem. Int. Ed.* **2017**, *56*, 9704-9709.
297. “Single-Site Cobalt Catalysts at New Zr₁₂(μ₃-O)₈(μ₃-OH)₈(μ₃-OH)₆ Metal-Organic Framework Nodes for Highly Active Hydrogenation of Nitroarenes, Nitriles, and Isocyanides.” Ji, P.; Manna, K.; Lin, Z.; Feng, X.; Urban, A.; Song, Y.; Lin, W. *J. Am. Chem. Soc.* **2017**, *139*, 7004-7011.
296. “Exciton Migration and Amplified Quenching on Two-Dimensional Metal-Organic Layers.” Cao, L.; Lin, Z.; Shi, W.; Wang, Z.; Zhang, C.; Hu, X.; Wang, C.; Lin, W. *J. Am. Chem. Soc.* **2017**, *139*, 7020-7029.
295. “Confinement of Ultrasmall Cu/ZnO_x Nanoparticles in Metal-Organic Frameworks for Selective Methanol Synthesis from Catalytic Hydrogenation of CO₂.” An, B.; Zhang, J.; Cheng, K.; Ji, P.; Wang, C.; Lin, W. *J. Am. Chem. Soc.* **2017**, *139*, 3834-3840.
294. “Electron Crystallography Reveals Atomic Structures of Metal-Organic Nanoplates with M₁₂(μ₃-O)₈(μ₃-OH)₈(μ₂-OH)₆ (M=Zr and Hf) Secondary Building Units.” Dai, R.; Fei Peng, F.; Ji, P.; Lu, K.; Wang, C.; Sun, J.; Lin, W. *Inorg. Chem.* **2017**, *56*, 8128-8134.
293. “Successful Coupling of a Bis-Amidoxime Uranophile with a Hydrophilic Backbone for Selective Uranium Sequestration.” Piechowicz, M.; Abney, C.W.; Thacker, N.C.; Gilhula, J.C.; Wang, Y.; Veroneau, S.S.; Hu, A.; Lin, W. *ACS Appl. Mater. Interfaces*, **2017**, *9*, 27894-27904. (DOE sea water)
292. “*In vivo* delivery and therapeutic effects of a microRNA on colorectal liver metastases.” Oshima, G.; Guo, N.; He, C.; Stack, M.E.; Poon, C.; Uppal, A.; Wightman, S.C.; Parekh, A.; Skowron, K.B.; Posner, M.C.; Lin, W.; Khodarev, N.N.; Weichselbaum, R.R. *Mol. Ther.* **2017**, *25*, 1588-1595. (U01)
291. Functionalized Porous Organic Polymer for Efficient Uranium Adsorption from Aqueous Solutions.” Li, B.; Sun, Q.; Zhang, Y.; Abney, C.W.; Aguila, B.; Lin, W.; Ma, S. *ACS Appl. Mater. Interfaces*, **2017**, *9*, 12511-12517. (DOE sea water)
290. “Two-dimensional Metal-Organic Layers as A Bright and Processable Phosphor for Fast White-Light Communication.” Hu, X.; Zhang, C.; Lin, B.; Wang, Z.; Cao, L.; Wang, T.; Zhang, J.; Wang, C.; Lin, W.; *Eur. J. Chem.* **2017**, *23*, 8390-8394.
289. “Phenanthroline-Based Metal-Organic Frameworks for Fe-Catalyzed C_{sp}³-H Amination.” Thacker, N.C.; Ji, P.; Lin, Z.; Urban, A.; Lin, W. *Faraday Disc.* **2017**, *201*, 315-327.
288. “Networking Pyrolyzed Zeolitic Imidazolate Frameworks by Carbon Nanotubes Improves Conductivity and Enhances Oxygen-Reduction Performance in Polymer Electrolyte Membrane Fuel Cells.” Zhang, C.; Wang, Y.-C.; An, B.; Huang, R.; Wang, C.; Zhou, Z.; Lin, W. *Adv. Mater.* **2017**, *29*, 1604556. doi: 10.1002/adma.201604556.
287. “Photodynamic Therapy Mediated by Nontoxic Core-Shell Nanoparticles Synergize with Immune Checkpoint Blockade to Elicit Antitumor Immunity and Antimetastatic Effect on Breast Cancer.” Duan, X.; Chan, C.; Guo, N.; Han, W.; Weichselbaum, R.R.; Lin, W. *J. Am. Chem. Soc.* **2016**, *138*, 16686-16696.
286. “Cerium-Hydride Secondary Building Units in a Porous Metal-Organic Framework for Catalytic Hydroboration and Hydrophosphination.” Ji, P.; Sawano, T.; Lin, Z.; Urban, A.; Boures, D.; Lin, W. *J. Am. Chem. Soc.* **2016**, *138*, 14860-14863.
285. “Nanoscale coordination polymers co-deliver carboplatin and gemcitabine for highly effective treatment of platinum-resistant ovarian cancer.” Poon, C.; Duan, X.; Chan, C.; Han, W.; Lin, W. *Mol. Pharm.* **2016**, *13*, 3665-3675. DOI: 10.1021/acs.molpharmaceut.6b00466.

284. "Highly Efficient Cooperative Catalysis by Co^{III}(Porphyrin) Pairs in Interpenetrating Metal-organic Frameworks." Lin, Z.; Zhang, Z.-M.; Chen, Y.-S.; Lin, W. *Angew. Chem. Int. Ed.* **2016**, *55*, 13739-13743.
283. "Single-Site Cobalt Catalysts at New Zr₈(μ₂-O)₈(μ₂-OH)₄ Metal-Organic Framework Nodes for Highly Active Hydrogenation of Alkenes, Imines, Carbonyls, and Heterocycles." Ji, P.; Manna, K.; Lin, Z.; Urban, A.; Greene, F.X.; Lan, G.; Lin, W. *J. Am. Chem. Soc.* **2016**, *138*, 12234-12242. DOI: 10.1021/jacs.6b06759.
282. "A Chlorin-based Nanoscale Metal-Organic Framework Systemically Rejects Colorectal Cancers via Synergistic Photodynamic Therapy and Checkpoint Blockade Immunotherapy." Lu, K.; He, C.; Guo, N.; Chan, C.; Ni, K.; Weichselbaum, R.R.; Lin, W. *J. Am. Chem. Soc.* **2016**, *138*, 12502-12510. DOI: 10.1021/jacs.6b06663.
281. "A Report of Emergent Uranyl Binding Phenomena by an Amidoxime Phosphonic Acid Co- Polymer." Abney, C.W.; Das, S.; Mayes, R.T.; Kuo, L.-J. Wood, J.; Gill, G.; Piechowicz, M.; Lin, Z.; Lin, W.; Dai, S. *Phys. Chem. Chem. Phys.* **2016**, in press.
280. "Metal-Organic Frameworks Stabilize Mono(phosphine)-Metal Complexes for Broad-Scope Catalytic Reactions." Sawano, T.; Lin, Z.; Boures, D.; An, B.; Wang, C.; Lin, W. *J. Am. Chem. Soc.* **2016**, *138*, 9783-9786.
279. "Preface for the Forum on Metal-Organic Frameworks for Energy-Related Applications." Lin, W.; Long, J.R. *Inorg. Chem.* **2016**, *55*, 7189-7191.
278. "Chemoselective Single-Site Earth-Abundant Metal Catalysts at Metal-Organic Framework Nodes." Manna, K.; Ji, P.; Lin, Z.; Greene, F.X.; Urban, A.; Thacker, N.C.; Lin, W. *Nat. Commun.* **2016**, *7*: 12610. DOI: 10.1038/ncomms12610.
277. "Core-Shell Nanoscale Coordination Polymers Combine Chemotherapy and Photodynamic Therapy to Potentiate Checkpoint Blockade Cancer Immunotherapy." He, C.; Duan, X.; Guo, N.; Chan, C.; Poon, C.; Weichselbaum, R.R.; Lin, W. *Nat. Commun.* **2016**, *7*: 12499.
276. "Metal-Organic Framework Nodes Support Single-Site Magnesium-Alkyl Catalysts for Hydroboration and Hydroamination Reactions." Manna, K.; Ji, P.; Greene, F.X.; Lin, W. *J. Am. Chem. Soc.* **2016**, *138*, 7488-7491. DOI: 10.1021/jacs.6b03689.
275. "Nanoscale Coordination Polymers Co-deliver Chemotherapeutics and siRNAs to Eradicate Tumors of Cisplatin-Resistant Ovarian Cancer." He, C.; Poon, C.; Chan, C.; Yamada, S.D.; Lin, W. *J. Am. Chem. Soc.* **2016**, *138*, 6010-6019. DOI: 10.1021/jacs.6b02486.
274. "Hierarchical Integration of Photosensitizing Metal-Organic Frameworks and Nickel-Containing Polyoxometalates for Efficient Visible-Light-Driven Hydrogen Evolution." Kong, X.-J.; Lin, Z.; Zhang, Z.-M.; Zhang, T.; Lin, W. *Angew. Chem. Int. Ed.* **2016**, *55*, 6411-6416. DOI: 10.1002/anie.201600431.
273. "Förster Energy Transport in Metal-Organic Frameworks Is Beyond Step-by-Step Hopping." Zhang, Q.; Zhang, C.; Cao, L.; Wang, Z.; An, B.; Lin, Z.; Huang, R.; Zhang, Z.-M.; Wang, C.; Lin, W. *J. Am. Chem. Soc.* **2016**, *138*, 5308-5315. DOI: 10.1021/jacs.6b01345.
272. "Cation-mediated optical resolution and anticancer activity of chiral polyoxometalates built from entirely achiral building blocks." Zhang, Z.-M.; Duan, X.; Yao, S.; Wang, Z.; Lin, Z.; Li, Y.-G.; Long, L.-S.; Wang, E.-B.; Lin, W. *Chem. Sci.* **2016**, *7*, 4220-4229. DOI: 10.1039/C5SC04408A.
271. "Pyrolysis of Metal-Organic Frameworks to Fe₃O₄@Fe₃C₂ Core-Shell Nanoparticles for Fischer-Tropsch Synthesis." An, B.; Cheng, K.; Wang, C.; Wang, Y.; Lin, W. *ACS Catal.* **2016**, *6*, 3610-3618.
270. "Nanoscale Metal-Organic Frameworks for Ratiometric Oxygen Sensing in Live Cells." Xu, R.; Wang, Y.; Duan, X.; Lu, K.; Micheroni, D.; Hu, A.; Lin, W. *J. Am. Chem. Soc.* **2016**, *138*, 2158-2161. DOI: 10.1021/jacs.5b13458.
269. "Metal-Organic Frameworks Stabilize Solution-Inaccessible Cobalt Catalysts for Highly Efficient Broad-Scope Organic Transformations." Zhang, T.; Manna, K.; Lin, W. *J. Am. Chem. Soc.* **2016**, *138*, 3241-3249. DOI: 10.1021/jacs.6b00849.
268. "Self-Supporting Metal-Organic Layers as Single-Site Solid Catalysts." Cao, L.; Lin, Z.; Peng, F.; Wang, W.; Huang, R.; Wang, C.; Yan, J.; Liang, J.; Zhang, Z.; Zhang, T.; Long, L.-S.; Sun, J.; Lin, W. *Angew. Chem. Int. Ed.* **2016**, *55*, 4962-4966. DOI: 10.1002/anie.201512054.
267. "Robust and Porous β-Diketiminato Functionalized Metal-Organic Frameworks for Earth-Abundant Metal-Catalyzed C-H Amination and Hydrogenation." Thacker, N.C.; Lin, Z.; Zhang, T.; Gilhula, J.C.; Abney, C.W.; Lin, W. *J. Am. Chem. Soc.* **2016**, *138*, 3501-3509. DOI: 10.1021/jacs.5b13394.
266. "A rhenium-functionalized metal-organic framework as a single-site catalyst for photochemical

- reduction of carbon dioxide.” Huang, R.; Peng, Y.; Wang, C.; Shi, Z.; Lin, W. *Eur. J. Inorg. Chem.* **2016**, DOI: ejic.201600064.
265. “Sulfur-Doping Achieves Efficient Oxygen Reduction in Pyrolyzed Zeolitic Imidazolate Frameworks.” Zhang, C.; An, B. Yang, L.; Wu, B.; Shi, W.; Wang, Y.-C.; Long, L.-S.; Wang, C.; Lin, W. *J. Mater. Chem. A.*, **2016**, 4, 4457-4463. DOI: 10.1039/C6TA00768F.
264. “Graphene-Immobilized fac-Re(bipy)(CO)₃Cl for Syngas Generation from Carbon Dioxide.” Zhou, X.; Micheroni, D.; Lin, Z.; Poon, C.; Li, Z.; Lin W. *ACS Appl. Mater. Interfaces*, **2016**, 8, 4192-4198. DOI: 10.1021/acsami.5b11958.
263. “XAFS investigation of polyamidoxime-bound uranyl contests the paradigm from small molecule studies.” C. W. Abney, C.A.; Mayes, R.T.; Piechowicz, M.; Lin, Z.; Bryantsev, V.S.; Veith, G.M.; Dai, S.; Lin, W. *Energy Environ. Sci.* **2016**, 9, 448-453. DOI: 10.1039/c5ee02913a.
262. “Nanoparticle formulations of cisplatin for cancer therapy.” Duan, X.; He, C.; Kron, S.J.; Lin, W. *WIREs Nanomed. Nanobiotechnol.* **2016**, 8, 776-791. doi: 10.1002/wnan.1390.
261. “Design, Synthesis, and Characterization of a Bifunctional Chelator with Ultrahigh Capacity for Uranium Uptake from Seawater Simulant.” Piechowicz, M.; Abney, C.A.; Zhou, X.; Thacker, N.C.; Li, Z.; Lin, W. *Ind. Eng. Chem. Res.* **2016**, DOI: 10.1021/acs.iecr.5b03304.
260. “Pre-concentration and energy transfer enable the efficient luminescence sensing of transition metal ions by metal-organic frameworks.” Lin, X; Hong, Y.; Zhang, C.; Huang, R.; Wang, C.; Lin, W. *Chem. Commun.* **2015**, 95, 16996-16999. doi: 10.1039/c5cc06453h.
259. “Introduction: Nanoparticles in Medicine.” Lin, W. *Chem. Rev.* **2015**, 115, 10407-10409. DOI: 10.1021/acs.chemrev.5b00534.
258. “Hybrid Nanoparticles for Combination Therapy of Cancer.” He, C.; Lu, J.; Lin, W. *J. Controlled Release*, **2015**. DOI: 10.1016/j.jconrel.2015.09.029.
257. “The First Chiral Diene-Based Metal-Organic Frameworks for Highly Enantioselective Carbon- Carbon Bond Formation Reactions.” Sawano, T.; Ji, P.; McIsaac, A.R.; Lin, Z.; Abney, C.W.; Lin, W. *Chem. Sci.* **2015**, 219, 224-236. DOI: 10.1039/C5SC02100F.
256. “Robust, Chiral, and Porous BINAP-Based Metal-Organic Frameworks for Highly Enantioselective Cyclization Reactions.” Sawano, T.; Thacker, N.C.; Lin, Z.; McIsaac, A.R.; Lin, W. *J. Am. Chem. Soc.* **2015**, 137, 12241-12248. DOI: 10.1021/jacs.5b09225.
255. “Nanomedicine Applications of Hybrid Nanomaterials Built from Metal-Ligand Coordination Bonds: Nanoscale Metal-Organic Frameworks and Nanoscale Coordination Polymers.” He, C.; Liu, D.; Lin, W. *Chem. Rev.* **2015**, 115, 11079-11108. DOI: 10.1021/acs.chemrev.5b00125.
254. “A Chlorin-Based Nanoscale Metal-Organic Framework for Photodynamic Therapy of Colon Cancers.” Lu, K.; He, C.; Lin, W. *J. Am. Chem. Soc.*, **2015**, 137, 7600-3. doi: 10.1021/jacs.5b04069.
253. “Nanomedicine for Combination Therapy of Cancer.” He, C.; Chan, C.; Weichselbaum, R.R.; Fleming, G.F.; Yamada, S.D.; Lin, W. *EBioMedicine*, **2015**, 2, 366-7. doi: 10.1016/j.ebiom.2015.05.013.
252. “Highly Active Hydrogen Evolution Electrodes via Co-Deposition of Platinum and Polyoxometalates.” Zhang, C.; Hong, Y.; Dai, R.; Lin, X.; Long LS, Wang C, Lin W. *ACS Appl. Mater. Interfaces*, **2015**, 7, 11648-53. doi: 10.1021/acsami.5b02899.
251. “Hybrid nanoparticles for cancer imaging and therapy.” He, C.; Lin, W. *Cancer Treat. Res.*, **2015**, 166, 173-92. doi: 10.1007/978-3-319-16555-4_8
250. “Polymeric micelle-mediated delivery of DNA-targeting organometallic complexes for resistant ovarian cancer treatment.” Duan, X.; Liu, D.; Chan, C.; Lin, W. *Small*, **2015**, 11, 3962-3972. DOI: 10.1002/smll.201500288.
249. “Photosensitizing Metal–Organic Framework Enabling Visible-Light-Driven Proton Reduction by a Wells–Dawson-Type Polyoxometalate.” Zhang, Z.-M.; Zhang, T.; Wang, C.; Lin, Z.; Long, L.-S.; Lin, W. *J. Am. Chem. Soc.*, **2015**, 137, 3197–3200. DOI: 10.1021/jacs.5b00075.
248. “Bipyridine- and Phenanthroline-Based Metal-Organic Frameworks for Highly Efficient and Tandem Catalytic Organic Transformations via Directed C-H Activation.” Manna, K.; Zhang, T.; Greene, F.X.; Lin, W. *J. Am. Chem. Soc.* **2015**, 137, 2665-2673. DOI: 10.1021/ja512478y.
247. “Enzymatic Synthesis of Periodic DNA Nanoribbons for Intracellular pH Sensing and Gene Silencing.” Chen, G.; Liu, D.; He, C.; Gannett, T.R.; Lin, W.; Weizmann, Y. *J. Am. Chem. Soc.*, **2015**, 137, 3844–3851. DOI: 10.1021/ja512665z.
246. “Self-Assembled Nanoscale Coordination Polymers Carrying Oxaliplatin and Gemcitabine for Synergistic Combination Therapy of Pancreatic Cancer.” Poon, C.; He, C.; Liu, D.; Lu, K.; Lin, W. *J. Controlled*

Release **2015**, *201*, 90-99. DOI: 10.1016/j.jconrel.2015.01.026

245. "Self-Assembled Core-Shell Nanoparticles for Combined Chemotherapy and Photodynamic Therapy of Resistant Head and Neck Cancers." He, C.; Liu, D.; Lin, W. *ACS Nano.*, **2015**, *9*, 991-1003. DOI: 10.1021/nn506963h.
244. "Gadolinium Nicotinate Clusters as Potential MRI Contrast Agents." Lin, X.; Zhang, Q.; Chen, J.; Kong, X.; Long, L.; Wang, C.; Lin, W. *RSC Adv.* **2015**, *5*, 2914-2919. DOI: 10.1039/c4ra07853e.
243. "Self-assembled nanoscale coordination polymers carrying siRNAs and cisplatin for effective treatment of resistant ovarian cancer." He, C.; Liu, D.; Lin, W. *Biomaterials.* **2015**, *36*, 124-133. DOI: 10.1016/j.biomaterials.2014.09.017.
242. "Polysilsesquioxane Nanoparticles for Triggered Release of Cisplatin and Effective Cancer Chemoradiotherapy." Della Rocca, J.; Werner, M.E.; Kramer, S.A.; Huxford-Phillips, R.C.; Sukumar, R.; Cummings, N.D.; Vivero-Escoto, J.L.; Andrew Z. Wang, A.Z.; Lin, W. *Nanomedicine*, **2015**, *11*, 31-38. DOI:10.1016/j.nano.2014.07.004.
241. "Metal-Organic Framework Templated Inorganic Sorbents for Rapid and Efficient Extraction of Heavy Metals." Abney, C.W.; Gilhula, J.C.; Lu, K.; Lin, W. *Adv. Mater.* **2014**, *26*, 7993-7997. DOI: 10.1002/adma.201403428.
240. "Nanoscale Metal-Organic Framework for Highly Effective Photodynamic Therapy of Resistant Head and Neck Cancer." Lu, K.; He, C.; Lin, W. *J. Am. Chem. Soc.* **2014**, *136*, 16712-16715. DOI: 10.1021/ja508679h.
239. "Graphene-Immobilized Monomeric Bipyridine-M^(x+) (M^(x+) = Fe⁽³⁺⁾, Co⁽²⁺⁾, Ni⁽²⁺⁾, or Cu⁽²⁺⁾) Complexes for Electrocatalytic Water Oxidation." Zhou, X.; Zhang, T.; Abney, C.W.; Li, Z.; Lin, W. *ACS Appl Mater Interfaces.* **2014**, *6*, 18475-18479. DOI: 10.1021/am506435u.
238. "A Metal-Organic Framework Containing Unusual Eight-Connected Zr-Oxo Secondary Building Units and Orthogonal Carboxylic Acids for Ultra-sensitive Metal Detection." Carboni, M.; Lin, Z.; Abney, C.W.; Zhang, T.; Lin, W. *Chem. Eur. J.* **2014**, *20*, 14965-14970. DOI: 10.1002/chem.201405194.
237. "A little spin on the side: solvent and temperature dependent paramagnetism in [Ru(II)(bpy)₂(phendione)]⁽²⁺⁾." Schmidt, R.D.; Kent, C.A.; Concepcion, J.J.; Lin, W.; Meyer, T.J.; Forbes, M.D. *Dalton Trans.* **2014**, *43*, 17729-17739. DOI: 10.1039/c4dt01868k.
236. "Salicylaldimine-based metal-organic framework enabling highly active olefin hydrogenation with iron and cobalt catalysts." Manna, K.; Zhang, T.; Carboni, M.; Abney, C.W.; Lin, W. *J. Am. Chem. Soc.* **2014**, *136*, 13182-13185. DOI: 10.1021/ja507947d.
235. "Nanoscale metal-organic frameworks for real-time intracellular pH sensing in live cells." He, C.; Lu, K.; Lin, W. *J. Am. Chem. Soc.* **2014**, *136*, 12253-12256. DOI: 10.1021/ja507333c.
234. "Theranostic Nanoscale Coordination Polymers for Magnetic Resonance Imaging and Anticancer Bisphosphonate Delivery." Liu, D.; He, C.; Poon, C.; Lin, W. *J. Mater. Chem. B*, **2014**, *2*, 8249-8255. DOI: 10.1039/C4TB00751D.
233. "Topotactic Transformations of Metal-organic Frameworks to Highly Porous and Stable Inorganic Sorbents for Efficient Radionuclide Sequestration." Abney, C.W.; Taylor-Pashow, K.M.L.; Russell, S.R.; Chen, Y.; Samantary, R.; Lockard, J.V.; Lin, W. *Chem. Mater.* **2014**, *26*, 5231-5243. DOI: 10.1021/cm501894h.
232. "Self-assembled nanoscale coordination polymers with superb biodistributions and trigger release properties for effective anticancer therapy." Liu, D.; Poon, C.; Lu, K.; He, C.; Lin, W. *Nat. Commun.* **2014**, *5*, 4182. DOI: 10.1038/ncomms5182.
231. "A hybrid polyoxometalate-organic molecular catalyst for visible light driven water oxidation." Zhang, C.; Lin, X.; Zhang, Z.; Long, L.-S.; Wang, C.; Lin, W. *Chem. Commun.* **2014**, *50*, 11591-11594. DOI: 10.1039/C4CC03487B
230. "Metal-Organic Frameworks for Artificial Photosynthesis and Photocatalysis." Zhang, T.; Lin, W.; *Chem. Soc. Rev.* **2014**, *43*, 5982-5993. DOI: 10.1039/C4CS00103F.
229. "Synergistic Assembly of Heavy Metal Clusters and Luminescent Organic Bridging Ligands in Metal-organic Frameworks for Highly Efficient X-ray Scintillation." Wang, C.; Volotskova, O.; Lu, K.; Ahmad, M.; Sun, C.; Xing, L.; Lin, W. *J. Am. Chem. Soc.* **2014**, *136*, 6171-6174. DOI: 10.1021/ja500671h.
228. "Post-synthetic Metalation of Bipyridyl-containing Metal-organic Frameworks for Highly Efficient Catalytic Organic Transformations." Manna, K.; Zhang, T.; Lin, W. *J. Am. Chem. Soc.* **2014**, *136*, 6566-6569. DOI: 10.1021/ja5018267.
227. "Privileged Phosphine-Based Metal-Organic Frameworks for Broad-Scope Asymmetric Catalysis." Falkowski, J.M.; Sawano, T.; Zhang, T.; Tsun, G.; Chen, Y.; Lockard, J.V.; Lin, W. *J. Am. Chem. Soc.*

- 2014**, *136*, 5213-5216. (Highlighted in 18 April 2014 issue of *Science*)
226. "Polyoxometalate-Based Cobalt-Phosphate Molecular Catalysts for Visible Light-Driven Water Oxidation." Han, X.-B.; Zhang, Z.-M.; Li, Y.-G.; Lin, W.; You, W.-S.; Su, Z.-M.; Wang, E.-B. *J. Am. Chem. Soc.* **2014**, *136*, 5359-5366.
 225. "Nanoscale Metal-organic Frameworks for the Co-delivery of Cisplatin and Pooled siRNAs to Enhance Therapeutic Efficacy in Drug-resistant Ovarian Cancer Cells." He, C.; Lu, K.; Lin, W. *J. Am. Chem. Soc.*, **2014**, *136*, 5181-5184.
 224. "A Biomimetic Copper Water Oxidation Catalyst with Low Overpotential." Zhang, T.; Wang, C.; Liu, S.; Wang, J.-L.; Lin, W. *J. Am. Chem. Soc.*, **2014**, *136*, 273-281.
 223. "Functional Metal-organic Frameworks via Ligand Doping: Influences of Ligand Charge and Steric Demand." Wang, C.; Liu, D.; Xie, Z.; Lin, W. *Inorg. Chem.*, **2014**, *53*, 1331-1338.
 222. "The Effects of Electron-Donating Substituents on [Ir(bpy)Cp*Cl]⁺: Water Oxidation vs. Ligand Oxidative Modifications." Zhang, T.; deKrafft, K.E.; Wang, J.-L.; Wang, C.; Lin, W. *Eur. J. Inorg. Chem.*, **2014**, 698-707. DOI:10.1002/ejic.201300882
 221. "Metal-Organic Frameworks as Sensory Materials and Imaging Agents." Liu, D.; Lu, K.; Poon, C.; Lin, W. *Inorg. Chem.* **2014**, *53*, 1916-1924.
 220. "Metal-organic Frameworks as a Tunable Platform for Designing Functional Molecular Materials." Wang, C.; Liu, D.; Lin, W. *J. Am. Chem. Soc.* **2013**, *135*, 13222-13234. (UChicago)
 219. "Tuning Amidoximate to Enhance Uranyl Binding: A Density Functional Theory Study." Abney, C.W.; Liu, S.; Lin, W. *J. Phys. Chem. A*, **2013**, *45*, 11558-11565. (UChicago)
 218. "Uranium sorption with functionalized mesoporous carbon materials." Carboni, M.; Abney, C.W.; Taylor-Pashow, K.M.L.; Juan L. Vivero-Escoto, J.L.; Lin, W. *Ind. Eng. Chem. Res.* **2013**, *52*, 15187-15197. (UChicago)
 217. "Application of liposomal technologies for delivery of platinum analogs in oncology." Liu, D.; He, C.; Wang, A.Z.; Lin, W. *Int. J. Nanomed.* **2013**, *8*, 3309-3319. (UChicago)
 216. "Rapid energy transfer in non-porous metal-organic frameworks with caged Ru(bpy)₃²⁺ chromophores: oxygen trapping and luminescence quenching." Kent, C.A.; Liu, D.; Ito, A.; Zhang, T.; Brennaman, M.K.; Meyer, T.J.; Lin, W. *J. Mater. Chem. A.*, **2013**, 14982-14989.
 215. "Lipid-coated nanoscale coordination polymers for targeted cisplatin delivery." Huxford-Phillips, R.C.; Russell, S.R.; Liu, D.; Lin, W. *RSC Adv.* **2013**, *3*, 14438-14443.
 214. "Highly porous and stable metal-organic frameworks for uranium extraction." Carboni, M.; Abney, C.W.; Liu, S.; Lin, W. *Chem. Sci.* **2013**, *4*, 2396-2402. (Highlighted in 22 April 2013 issue of *Chem. Eng. News*)
 213. "Triplet Excitation Energy Dynamics in Metal-Organic Frameworks." Hu, X.; Van Rynbach, A.; Beratan, D.N.; Mehl, B.P.; Kent, C.A.; Papanikolas, J.M.; Meyer, T.J.; Lin, W.; Skourtis, S.S.; Constantinou, M. *J. Phys. Chem. B.* **2013**, *117*, 22250-22259. DOI: 10.1021/jp401515r.
 212. "Organo-Functionalized Mesoporous Silicas for Efficient Uranium Extraction." Vivero-Escoto, J.L.; Carboni, M.; Abney, C.W.; deKrafft, K.E.; Lin, W. *Microporous Mesoporous Mater.* **2013**, *180*, 22-31.
 211. "Asymmetric Catalysis with Chiral Metal-Organic Frameworks." Falkowski, J.M.; Liu, S.; Lin, W. In *Metal-Organic Frameworks as Heterogeneous Catalysts*, Llabrés i Xamena, F.X. and Gascon, J. Eds. RSC Catalysis Series, **2013**.
 210. "Biodegradable Polysilsesquioxane Nanoparticles as Efficient Contrast Agents for Magnetic Resonance Imaging." Vivero-Escoto, J.L.; Rieter, W.J.; Lau, H.; Huxford-Phillips, R.C.; Lin, W. *Small*, **2013**, *9*, 3523-3531. doi: 10.1002/smll.201300198.
 209. "Metal-Organic Frameworks for Light Harvesting and Photocatalysis." Wang, J.-L.; Wang, C.; Lin, W. *ACS Catal.* **2012**, *2*, 2630-2640.
 208. "Elucidating Molecular Iridium Water Oxidation Catalysts Using Metal-Organic Frameworks: A Comprehensive Structural, Catalytic, Spectroscopic, and Kinetic Study." Wang, C.; Wang, J.-L.; Lin, W. *J. Am. Chem. Soc.* **2012**, *134*, 19895-19908.
 207. "Blocking bimolecular activation pathways leads to different regio- and stereo-selectivity in metal-organic framework catalysis." Zhang, T.; Song, F.; Lin, W. *Chem. Commun.* **2012**, *48*, 8766-8768.
 206. "A high connectivity metal-organic framework with exceptional hydrogen and methane uptake capacities." Liu, D.; Wu, H.; Wang, S.; Xie, Z.; Li, J.; Lin, W. *Chem. Sci.* **2012**, *3*, 3032-3037.
 205. "Zr- and Hf-based Nanoscale Metal-Organic Frameworks as Contrast Agents for Computed Tomography." deKrafft, K.E.; Boyle, W.S.; Burk, L.M.; Zhou, O.Z.; Lin, W. *J. Mater. Chem.* **2012**, *35*, 18065-18672. (outside front cover)

204. "Metal-organic frameworks as single-site solid catalysts for asymmetric reactions." Falkowski, J.M.; Liu, S.; Lin, W. *Israel J. Chem.* **2012**, *52*, 591-603.
203. "A Chiral Porous Metal-Organic Framework for Highly Sensitive and Enantioselective Fluorescence Sensing of Amino Alcohols." Wanderley, M.M.; Wang, C.; Wu, C.-D.; Lin, W. *J. Am. Chem. Soc.* **2012**, *134*, 9050-9053.
202. "Cavity Induced Enantioselectivity Reversal in A Chiral Metal-Organic Framework Brønsted Acid Catalyst." Zheng, M.; Liu, Y.; Wang, C.; Liu, S.; Lin, W. *Chem. Sci.* **2012**, *3*, 2623-2627.
201. "Chiral Porous Metal-Organic Frameworks with Dual Catalytic Sites for Sequential Asymmetric Catalysis." Song, F.; Zhang, T.; Wang, C.; Lin, W. *Proc. Royal Soc. A*, **2012**, *468*, 2035-2052.
200. "Mixed-motif interpenetration and cross-linking of high-connectivity networks lead to robust and porous metal-organic frameworks with high gas uptake capacities." Wen, L.; Cheng, P.; Lin, W. *Chem. Sci.* **2012**, *3*, 2288-2292.
199. "Chiral metal-organic frameworks with tunable open channels as single-site asymmetric cyclopropanation catalysts." Falkowski, J.M.; Liu, S.; Wang, C.; Lin, W. *Chem. Commun.* **2012**, *48*, 6508-6510.
198. "Pt Nanoparticles@Photoactive Metal-Organic Frameworks: Efficient Hydrogen Evolution via Synergistic Photo-excitation and Electron Injection." Wang, C.; deKrafft, K.E.; Lin, W. *J. Am. Chem. Soc.* **2012**, *134*, 7211-7214.
197. "Oxygen sensing via phosphorescence quenching of doped metal-organic frameworks." Barrett, S.M.; Wang, C.; Lin, W. *J. Mater. Chem.* **2012**, *22*, 10329-10334.
196. "Light-Harvesting Crosslinked Polymers for Efficient Photocatalysis." Wang, C.; Xie, Z.; deKrafft, K.E.; Lin, W. *ACS Applied Materials and Interfaces*. **2012**, *4*, 2288-2294.
195. "Metal-Organic Framework Templated Synthesis of Fe₂O₃/TiO₂ Nanocomposite for Photocatalytic Hydrogen Production." deKrafft, K.E.; Wang, C.; Lin, W. *Adv. Mater.* **2012**, *24*, 2014-2018.
194. "Crosslinked polymers with exceptionally high Ru(bipy)₃²⁺ loadings for efficient heterogeneous photocatalysis." Wang, J.-L.; Wang, C.; deKrafft, K.E.; Lin, W. *ACS Catal.* **2012**, *2*, 417-424.
193. "Electrochemical Water Oxidation by Carbon-Grafted Molecular Complexes." deKrafft, K.E.; Wang, C.; Xie, Z.; Xin, S.; Hinds, B.J.; Lin, W. *ACS Applied Materials and Interfaces* **2012**, *4*, 608-613.
192. "Amplified Luminescence Quenching of Emissive Metal-Organic Frameworks." Kent, C.A.; Liu, D.; Meyer, T.J.; Lin, W. *J. Am. Chem. Soc.* **2012**, *134*, 3991-3994.
191. "Coercing Bisphosphonates to Kill Cancer Cells with Nanoscale Coordination Polymers." Liu, D.; Kramer, S.A.; Huxford, R.C.; Wang, S.; Della Rocca, J.; Lin, W. *Chem. Commun.* **2012**, *48*, 2668-2670.
190. "Solvent-induced Single-Crystal to Single-Crystal Transformation of a 2-D Coordination Network to a 3-D Metal-organic Framework Greatly Enhances Porosity and Hydrogen Uptake." Wen, L.; Cheng, P.; Lin, W. *Chem. Commun.* **2012**, *48*, 2846-2848.
189. "Immobilization of Chiral Catalysts on Magnetite Nanoparticles for Highly Enantioselective Asymmetric Hydrogenation of Aromatic Ketones." Hu, A.; Liu, S.; Lin, W. *RSC Adv.* **2012**, *2*, 2576-2580.
188. "Are High Drug Loading Nanoparticles the Next Step Forward for Chemotherapy?" Della Rocca, J.; Liu, D.; Lin, W. *Nanomedicine* **2012**, *7*, 303-305.
187. "Mesoporous Silica Nanoparticles with Co-condensed Gadolinium Chelates for Multimodal Imaging." Taylor-Pashow, K.M.L.; Della Rocca, J.; Lin, W. *Nanomaterials*. **2012**, *2*, 1-14.
186. "Highly Porous 4,8-Connected Metal-Organic Frameworks: Synthesis, Characterization, and Hydrogen Storage." Mihalcik, D.J.; Zhang, T.; Ma, L.; Lin, W. *Inorg. Chem.* **2012**, *51*, 2503-2508.
185. "Silica-based Nanoprobes for Biomedical Imaging." Vivero-Escoto, J.L.; Huxford, R.C.; Lin, W. *Chem. Soc. Rev.* **2012**, *41*, 2673 - 2685.
184. "Rational Synthesis of Noncentrosymmetric Metal-Organic Frameworks for Second-Order Nonlinear Optics." Wang, C.; Zhang, T.; Lin, W. *Chem. Rev.* **2012**, *112*, 1084-1104.
183. "Nanoscale Coordination Polymers for Targeted Delivery of Antifolates to Cancer Cells." Huxford, R.C.; deKrafft, K.E.; Boyle, W.S.; Liu, D.; Lin, W. *Chem. Sci.* **2012**, *3*, 198-204.
182. "Debio 0507 Primarily Forms Diaminocyclohexane-Pt-d(GpG) and -d(ApG) DNA Adducts In HCT116 Cells". King, C.L.; Ramachandran, S.; Chaney, S.G.; Collins, L.; Swenberg, J.A.; deKrafft, K.E.; Lin, W.; Cicurel, L; Barbier, M. *Cancer Chemother. Pharmacol.* **2012**, *69*, 665-677.
181. "Trigger-Releasable Polysilsesquioxane Nanoparticles for Targeted Platin-Based Cancer Chemotherapy." Della Rocca, J.; Comstock-Duggan, E.; Huxford, R.C.; Lin, W. *Angew. Chem.* **2011**, *50*, 10330-10334.
180. "Multifunctional Mesoporous Silica Nanospheres as Biodegradable Contrast Agents for Target- Specific

- Magnetic Resonance Imaging." Vivero-Escoto, J.L.; Taylor-Pashow, K.M.L.; Huxford, R.C.; Della Rocca, J.; Okoruwa, C.; An, H.; Lin, W.; Lin, W. *Small*, **2011**, 7, 3519-3528.
179. "Light-Harvesting in Microscale Metal-Organic Frameworks by Energy Migration and Interfacial Electron Transfer Quenching." Kent, C.A.; Liu, D.; Ma, L.; Papanikolas, J.M.; Meyer, T.J.; Lin, W. *J. Am. Chem. Soc.* **2011**, 133, 12940-12943.
 178. "Doping Metal-Organic Frameworks for Water Oxidation, Carbon Dioxide Reduction, and Organic Photocatalysis." Wang, C.; Xie, Z.; deKrafft, K.E.; Lin, W. *J. Am. Chem. Soc.* **2011**, 133, 13445- 13454.
 177. "Actuation of Asymmetric Cyclopropanation Catalysts: Reversible Single-Crystal to Single-Crystal Reduction of Metal-Organic Frameworks." Falkowski, J.M.; Wang, C.; Lin, W. *Angew. Chem. Int. Ed.* **2011**, 50, 8674-8678.
 176. "A Chiral Metal-Organic Framework for Sequential Asymmetric Catalysis." Song, F.; Wang, C.; Lin, W. *Chem. Commun.* **2011**, 47, 8256-8258.
 175. "Highly Porous Crosslinked Polymers for Catalytic Asymmetric Diethylzinc Addition to Aldehydes." Ma, L.; Wanderley, M.; Lin, W. *ACS Catalysis* **2011**, 1, 691-697.
 174. "Metal Organic Frameworks for Biomedical Imaging." Della Rocca, J.; Lin, W. In *Metal-Organic Frameworks: Applications from Catalysis to Gas Storage*, Farrusseng, D. Ed. Wiley-VCH, Weinheim, Germany, **2011**, 251-266.
 173. "Nanoscale Metal-Organic Frameworks for Biomedical Imaging and Drug Delivery." Della Rocca, J.; Liu, D.; Lin, W. *Acc. Chem. Res.* **2011**, 44, 957-968.
 172. "Asymmetric Catalysis with Chiral Porous Metal-Organic Frameworks: Critical Issues." Wang, C.; Zheng, M.; Lin, W. *J. Phys. Chem. Lett.*, **2011**, 2, 1701-1709.
 171. "Synthesis of Fatty Acid Methyl Esters from Extremely Low Quality Greases by Homogeneous and Solid Phase Catalysts." Ngo, H.L.; Vanselous, H.; Xie, Z.; Kasprzyk, S.; Haas, M.; Lin, W. *J. Am. Oil Chem. Soc.* **2011**, 88, 1417-1424. (DOI: 10.1007/s11746-011-1804-1)
 170. "Phosphorescent Nanoscale Metal-Organic frameworks as Contrast Agents for Optical Imaging." Liu, D.; Huxford, R.C.; Lin, W. *Angew. Chem. Int. Ed.* **2011**, 50, 3696-3700.
 169. "Diffusion-Controlled Luminescence Quenching in Metal-Organic Frameworks." Wang, C.; Lin, W. *J. Am. Chem. Soc.* **2011**, 133, 4232-4235.
 168. "Highly Stable and Porous Crosslinked Polymers for Efficient Photocatalysis." Xie, Z.; Wang, C.; deKrafft, K.E.; Lin, W. *J. Am. Chem. Soc.* **2011**, 133, 2056-2059. ([Highlighted in 7 February 2011 issue of Chem & Eng News](#))
 167. "Single-Crystal to Single-Crystal Crosslinking of An Interpenetrating Chiral Metal-Organic Framework and Its Implication in Asymmetric Catalysis." Ma, L.; Wu, C.-D.; Wanderley, M.M.; Lin, W. *Angew. Chem. Int. Ed.* **2010**, 49, 8244-8248.
 166. "Three-Dimensional Metal-Organic Frameworks Based on Tetrahedral and Square Planar Building Blocks: Hydrogen Sorption and Dye Uptake Studies." Liu, D.; Xie, Z.; Ma, L.; Lin, W. *Inorg. Chem.* **2010**, 49, 9107-9109.
 165. "Isorecticular Chiral Metal-Organic Frameworks for Asymmetric Alkene Epoxidation: Tuning Catalytic Activity by Controlling Framework Catenation and Varying Open Channel Sizes." Song, F.; Wang, C.; Falkowski, J.M.; Ma, L.; Lin, W. *J. Am. Chem. Soc.* **2010**, 132, 15390-15398.
 164. "Energy Transfer Dynamics in Metal-Organic Frameworks." Kent, C.A.; Mehl, B.P.; Ma, L.; Papanikolas, J.M.; Meyer, T.J.; Lin, W. *J. Am. Chem. Soc.* **2010**, 132, 12767-12769.
 163. "Nanoscale Metal-organic Frameworks: Magnetic Resonance Imaging Contrast Agents and Beyond." Della Rocca, J.; Lin, W. *Eur. J. Inorg. Chem.* **2010**, 3725-3734.
 162. "Asymmetric Catalysis with Chiral Porous Metal-Organic Frameworks." Lin, W. *Topics in Catalysis*, **2010**, 53, 869-875.
 161. "Hybrid Nanomaterials for Biomedical Applications." Taylor-Pashow, K.M.L.; Della Rocca, J.; Huxford, R.C.; Lin, W. *Chem. Commun.* **2010**, 46, 5832-5849.
 160. "A series of isorecticular chiral metal-organic frameworks as a tunable platform for asymmetric catalysis." Ma, L.; Falkowski, J.M.; Abney, C.; Lin, W. *Nature Chem.* **2010**, 2, 838-846.
 159. "Porous Phosphorescent Coordination Polymers for Oxygen Sensing." Xie, Z.; Ma, L.; deKrafft, K.E.; Jin, A.; Lin, W. *J. Am. Chem. Soc.* **2010**, 132, 922-923.
 158. "Metal-Organic Frameworks as Potential Drug Carriers." Huxford, R.C.; Della Rocca, J.; Lin, W. *Curr. Opinion Chem. Biol.* **2010**, 14, 262-268.
 157. "Mesoporous Silica-Supported Diarylammonium Catalysts for Esterification of Free Fatty Acids in Greases." Ngo, H.L.; Zafiroopoulos, N.A.; Foglia, T.A.; Samulski, E.T.; Lin, W. *J. Am. Oil Chem. Soc.*

- 2010, 87, 445-452.
156. "Rational Design of Noncentrosymmetric Metal-Organic Frameworks for Second Order Nonlinear Optics." Lin, W.; Wu, S. In *Metal-Organic Frameworks: Design and Applications*, MacGillivray, L.R. Ed. Wiley, Hoboken, NJ, **2010**, 193-214.
 155. "Designing Metal-Organic Frameworks for Catalytic Applications." Ma, L.; Lin, W. *Topics Curr. Chem.* **2010**, Vol 293, pp 175-205 (M. Schröder, Ed).
 154. "Freeze Drying Significantly Increases Permanent Porosity and Hydrogen Uptake in New 4,4-Connected Metal-Organic Frameworks." Ma, L.; Jin, A.; Xie, Z.; Lin, W. *Angew. Chem. Int. Ed.* **2009**, 48, 9905-9908.
 153. "Iodinated Nanoscale Coordination Polymers as Potential Contrast Agents for Computed Tomography." deKrafft, K.E.; Xie, Z.; Cao, G.; Tran, S.; Ma, L.; Zhou, O.Z.; Lin, W. *Angew. Chem. Int. Ed.* **2009**, 48, 9901-9905.
 152. Mesoporous Silica Nanosphere-Supported Chiral Ruthenium Catalysts: Synthesis, Characterization, and Asymmetric Hydrogenation Studies." Mihalcik, D.J.; Lin, W. *ChemCatChem*, **2009**, 1, 406-413.
 151. "Post-Synthetic Modifications of Iron-Carboxylate Nanoscale Metal-Organic Frameworks for Imaging and Drug Delivery." Taylor-Pashow, K.M.L.; Della Rocca, J.; Xie, Z.; Tran, S.; Lin, W. *J. Am. Chem. Soc.* **2009**, 131, 14261-14263.
 150. "Multimodal optical and Gd-based nanoparticles for targeted monocyte imaging in inflammatory arthritis." Kim, J.S.; An, H.; Rieter, W.J.; Esserman, D.; Taylor-Pashow, K.M.L.; Sartor, R.B.; Lin, W.; Lin, W.; Tarrant, T.K. *Clin. Exp. Rheum.*, **2009**, 27, 580-580.
 149. "Hybrid Silica Nanoparticles for Luminescent Spore Detection." Taylor, K.M.L.; Lin, W. *J. Mater. Chem.* **2009**, 22, 905-912.
 148. "Magnetic Nanoparticles for Early Detection of Cancer by Magnetic Resonance Imaging." Lin, W.; Hyeon, T.; Lanza, G.M.; Zhang, M.; Meade, T. *MRS Bulletin.* **2009**, 34, 441-448.
 147. "Asymmetric oxadiazole mesogens as candidates for low-temperature biaxial nematics." Zafiroopoulos, A.; Lin, W.; Samulski, E.T.; Dingemans, T.J.; Picken, S.J. *Liquid Cryst.* **2009**, 36, 649- 656. 146.
 "Development of an Ultra Performance LC/MS method to quantitate cisplatin 1,2 intrastrand GG adducts." Baskerville-Abraham, I.M.; Boysen, G.; Troutman, J.M.; Mutlu, E.; Collins, L.; deKrafft, K.E.; Lin, W.; Prey, J.; Pendyala, L.; King, C.h; Chaney, S. G.; Swenberg, J.A. *Chem.Res.Toxicol.* **2009**, 22, 905-912.
 145. "Unusual Interlocking and Interpenetration Lead to Highly Porous and Robust Metal-Organic Frameworks." Ma, L.; Lin, W. *Angew. Chem. Int. Ed.* **2009**, 48, 3637-3640.
 144. "Highly Porous and Robust 4,8-Connected Metal-Organic Frameworks for Hydrogen Storage." Ma, L.; Mihalcik, D.J.; Lin, W. *J. Am. Chem. Soc.* **2009**, 131, 4610-4612.
 143. "Enantioselective Catalysis with Homochiral Metal-Organic Frameworks." Ma, L.; Abney, C.; Lin, W. *Chem. Soc. Rev.* **2009**, 38, 1248-1256.
 142. "Self-Supported Asymmetric Catalysts" Lin, W.; Mihalcik D.J. In *Recoverable and Recyclable Catalysts*, Benaglia, M. Ed. Wiley, Wiltshire, U.K., **2009**, 155-177,
 141. "Modular Synthesis of Functional Nanoscale Coordination Polymers." Lin, W.; Rieter, W.L.; Taylor, K.M.L. *Angew. Chem. Int. Ed.* **2009**, 48, 650-658.
 140. "3D Metal-Organic Frameworks Based on Functionalized Tetracarboxylate Linkers: Synthesis, Structures, and Gas Sorption Studies." Wu,S.; Ma, L.; Long,L-S.; Zheng,L.-S.; Lin, W. *Inorg. Chem.* **2009**, 48, 2436-2442.
 139. "Chirality-Controlled and Solvent-Templated Catenation Isomerism in Metal-Organic Frameworks." Ma, L.; Lin, W. *J. Am. Chem. Soc.* **2008**, 130, 13834-13835. [[pdf](#)]
 138. "Surfactant-Assisted Synthesis of Nanoscale Gadolinium Metal-Organic Frameworks for Potential Multimodal Imaging." Taylor, K.M.L.; Jin, A.; W.J.; Lin, W. *Angew. Chem. Int. Ed.* **2008**, 47, 7722- 7725. (Highlighted in 25 August 2008 issue of *Chem & Eng News*)
 137. "Manganese-Based Nanoscale Metal-Organic Frameworks for Magnetic Resonance Imaging." Taylor, K.M.L.; Rieter, W.J.; Lin, W. *J. Am. Chem. Soc.* **2008**, 130, 14358-14359.
 136. "Nanoscale Coordination Polymers for Platinum-Based Anticancer Drug Delivery." Rieter, W.J.; Pott, K.M.; Taylor, K.M.L.; Lin, W. *J. Am. Chem. Soc.* **2008**, 130, 11584-11585. (Highlighted in 18 August 2008 issue of *Chem & Eng News*) [[pdf](#)]
 135. "Hierarchically Ordered Homochiral Metal-Organic Frameworks Built from Exceptionally Large Rectangles and Squares." Wu, C.-D.; Ma, L.; Lin, W. *Inorg. Chem.* **2008**, 47, 11446-11448.

134. "3D Metal-organic Frameworks Based on Elongated Tetra-carboxylate Building Blocks for Hydrogen Storage." Ma, L.; Lee, J.; Li, J.; Lin, W. *Inorg. Chem.* **2008**, 47,3955-3957. [[pdf](#)]
133. "Mesoporous Silica Nanosphere-Supported Ruthenium Catalysts for Asymmetric Hydrogenation." Mihalcik, D.J.; Lin, W. *Angew. Chem. Int. Ed.* **2008**, 47, 6229-6232.
132. "Designing Functional Hybrid Nanomaterials by Combining Molecular Chemistry with Nanotechnology." Kim, J.S.; Lin, W. In *50th Anniversary Celebration of USTC*, Chen, S.; Lin, W. Eds. USTC Press, Hefei, Anhui, P.R. China, 2008.
131. "Chiral Nanoporous Materials." Lin, W.; Lee, S.J. In *Chirality at the Nanoscale*, Amabilino, D.B. Ed. Wiley-VCH: Weinheim, **2009**, 391-409 (Chapter 12).
130. "Chiral Metalloacycles for Asymmetric Catalysis." Lin, W. In *Supramolecular Catalysis*, van Leeuwen, P.N.M. Ed. Wiley-VCH, Weinheim, **2008**, 93-111.
129. "Mesoporous Silica Nanospheres as Highly Efficient MRI Contrast Agents." Taylor, K.M.L.; Kim, J.S.; Rieter, W.J.; An, H.; Lin, W.; Lin, W. *J. Am. Chem. Soc.* **2008**, 130, 2154-2155. [[pdf](#)]
128. "New All-aromatic Liquid Crystal Architectures." Zafiroopoulos, N.A.; Choi, E.-J.; Dingemans, T.; Lin, W.; Samulski, E.T. *Chem. Mater.* **2008**, 20, 3821-3831. [[pdf](#)]
127. "Chiral Metalloacycles: Rational Synthesis and Novel Applications." Lee, S.J.; Lin, W. *Accounts Chem. Res.* **2008**, 41, 521-537. [[pdf](#)]
126. "Efficient Two-Step Synthesis of Biodiesel from Greases." Ngo, H.L.; Zafiroopoulos, N.A.; Foglia, T.A.; Samulski, E.T.; Lin, W. *Energy & Fuels* **2008**, 22, 626-634. [[pdf](#)]
125. "Surface Modification and Functionalization of Nanoscale Metal-Organic Frameworks for Controlled Release and Luminescence Sensing." Rieter, W.J.; Taylor, K.M.L.; Lin, W. *J. Am. Chem. Soc.* **2007**, 129, 9852-9853. [[pdf](#)]
124. "Catalytic synthesis of biodiesel from high free fatty acid-containing feedstocks." Zafiroopoulos, N.A.; Ngo, H.L.; Foglia, T.A.; Samulski, E.T.; Lin, W. *Chem. Commun.* **2007**, 3670-3672. ([Highlighted in 5 July 2007 issue of Chemical Science](#)) [[pdf](#)]
123. "Synthesis and X-ray structures of cadmium coordination polymers based on new pyridine- carboxylate and imidazole-carboxylate linkers." Wu, C.-D.; Ayyappan, P.; Evans, O.R.; Lin, W. *Cryst. Growth Design.* **2007**, 7, 1690-1694. [[pdf](#)]
122. "Metal-Organic Frameworks for Asymmetric Catalysis and Chiral Separations." Lin, W. *MRS Bulletin*, **2007**, 32, 544-548.
121. "Self-Assembled Hybrid Nanoparticles for Cancer-Specific Multimodal Imaging." Kim, J.S.; Rieter, W.J.; Taylor, K.M.L.; An, H.; Lin, W.; Lin, W. *J. Am. Chem. Soc.* **2007**, 129, 8962-8963. [[pdf](#)]
120. "Hybrid Silica Nanoparticles for Multimodal Imaging." Rieter, W.J.; Kim, J.S.; Taylor, K.M.L.; An, H.; Lin, W.; Tarrant, T.; Lin, W. *Angew. Chem. Int. Ed.* **2007**, 46, 3680-3682.
119. "Branched-Chain Fatty Acids via Zeolite-Catalyzed Skeletal Isomerization." Ngo, H.L.; Foglia, T.A.; Nuñez, A.; Lin, W. *Eur. J. Lipid Sci. Tech.* **2007**, 109, 214-224. ([Highlighted in Lipid Technology, 2007, 19 \(6\), 139](#))
118. "Highly-Efficient Purification of Native His \times 6-tagged Proteins by Multivalent NTA-modified Magnetic Nanoparticles." Kim, J.S.; Valencia, C.A.; Liu, R.; Lin, W. *Bioconjugate Chem.* **2007**, 18, 333-341. [[pdf](#)]
117. "Heterogeneous Asymmetric Catalysis with Homochiral Metal-Organic Frameworks: Network Structure-Dependent Catalytic Activity." Wu, C.-D.; Lin, W. *Angew. Chem. Int. Ed.* **2007**, 46, 1075- 1078. ([Highlighted in 5 January 2007 issue of Science](#)) [[pdf](#)]
116. "Homochiral Porous Solids Based on 1D Coordination Polymers Built from 46-Membered Macrocycles." Wu, C.-D.; Lin, W. *Dalton Trans.* **2006**, 4563-4569.
115. "Uniaxial and Biaxial Nematic Liquid Crystals." Dingeman, T.J.; Madsen, L.A.; Zafiroopoulos, N.A.; Lin, W.; Samulski, E.T. *Phil. Trans. R. Soc. A*, **2006**, 364, 2681-2696.
114. "Pd-Catalyzed Intermolecular Asymmetric Hydroamination with 4,4'-Disubstituted BINAP and SEGPHOS." Hu, A.; Ogasawara, M.; Sakamoto, T.; Okada, A.; Nakajima, K.; Takahashi, T.; Lin, W. *Adv. Synth. Catal.* **2006**, 348, 2051-2056.
113. "Directed Assembly of Mesoscopic Metalloacycles with Controllable Size, Chirality, and Functionality Based

- on the Robust Pt-Alkynyl Linkage.” Jiang, H.; Lin, W. *J. Am. Chem. Soc.* **2006**, *128*, 11286- 11297. [[pdf](#)]
112. “1D and 2D Homochiral Metal-Organic Frameworks Built from a New Chiral Elongated Binaphthalene-Derived Bipyridine.” Wu, C.-D.; Zhang, L.; Lin, W. *Inorg. Chem.* **2006**, *45*, 7278-7285. [[pdf](#)]
111. “Nanoscale Metal-Organic Frameworks as Potential Multimodal Contrast Enhancing Agents.” Rieter, B.J.; Taylor, K.M.L.; An, H.; Lin, W.; Lin, W. *J. Am. Chem. Soc.* **2006**, *128*, 9024-9025. (Highlighted in 14 July 2006 issue of *Science*). [[pdf](#)]
110. “Magnetically Recoverable Chiral Catalysts Immobilized on Magnetite Nanoparticles for Asymmetric Hydrogenation of Aromatic Ketones.” Hu, A.; Yee, G.T.; Lin, W. *J. Am. Chem. Soc.* **2005**, *127*, 12486-12487. (Highlighted in 2 September 2005 issue of *Science* and several other magazines including *ChemWeek*, *Platinum Today*, and *In Pharma*) [[pdf](#)]
109. “Homochiral porous metal-organic frameworks: Why and how?” Lin, W. *J. Solid State Chem.* **2005**, *178*, 2486-2490.
108. “A Homochiral Porous Metal-Organic Framework for Highly Enantioselective Heterogeneous Asymmetric Catalysis.” Wu, C.-D.; Hu, A.; Zhang, L.; Lin, W. *J. Am. Chem. Soc.* **2005**, *127*, 8940- 8941. [[pdf](#)]
107. “Applications of 4,4'-(Me₃Si)₂-BINAP in Transition-Metal-Catalyzed Asymmetric Carbon-Carbon Bond-Forming Reactions.” Ogasawara, M.; Ngo, H.L.; Sakamoto, T.; Takahashi, T.; Lin, W. *Org. Lett.* **2005**, *7*, 2881-2884. [[pdf](#)]
106. “Platinum-Functionalized Chiral Molecular Squares as Light-Emitting Materials.” Zhang, L.; Niu, Y.-H.; Jen, A.K.-Y.; Lin, W. *Mater. Res. Soc. Symp. Proc.* **2005**, *846* (Organic and Nanocomposite Optical Materials), 53-58.
105. “A Chiral Porous 3D Metal-Organic Framework with an Unprecedented 4-Connected Network Topology.” Wu, C.-D.; Lin, W. *Chem. Commun.* **2005**, 3673-3675.
104. “Chiral Molecular Polygons Based on the Pt-Alkynyl Linkage. Self-Assembly, Characterization, and Functionalization.” Jiang, H.; Lin, W. *J. Organomet. Chem.* **2005**, *690*, 5159-5169.
103. “Highly Porous, Homochiral Metal-Organic Frameworks: Solvent-Exchange-Induced Single-Crystal to Single-Crystal Transformations.” Wu, C.D.; Lin, W. *Angew. Chem. Int. Ed.* **2005**, *44*, 1958-1961.
102. “A Highly Electroluminescent Molecular Square.” Zhang, L.; Niu, Y.-H.; Jen, A. K.-Y.; Lin, W. *Chem. Commun.* **2005**, 1002-1004.
101. “Hybrid Organic-Inorganic Solids for Heterogeneous Asymmetric Catalysis.” Ngo, H.L.; Lin, W. *Top. Catal.* **2005**, *34*, 85-92.
100. “Self-Assembly of Homochiral Porous Solids Based on 1D Cadmium(II) Coordination Polymers.” Wu, C.-D.; Lin, W. *Inorg. Chem.* **2005**, *44*, 1178-1180. [[pdf](#)]
99. “Development of 4,4'-Substituted-XylBINAP Ligands for Highly Enantioselective Hydrogenation of Ketones.” Ngo, H.L.; Lin, W. *J. Org. Chem.* **2005**, *70*, 1177-1187. [[pdf](#)]
98. “Ru-Catalyzed Asymmetric Hydrogenation of α -Phthalimide Ketones and 1,3-Diaryl Diketones Using 4,4'-Substituted BINAPs.” Hu, A.; Lin, W. *Org. Lett.* **2005**, *7*, 455-458. [[pdf](#)]
97. “Catalytic Asymmetric Hydrogenation of Aromatic Ketones in Room Temperature Ionic Liquids.” Ngo, H.L.; Hu, A.; Lin, W. *Tetrahedron Lett.* **2005**, *46*, 595-597.
96. “Highly Interpenetrated Metal-Organic Frameworks for Hydrogen Storage.” Kesanli, B.; Cui, Y.; Smith, M.; Bittner, E.; Bockrath, B.; Lin, W. *Angew. Chem., Int. Ed.* **2005**, *44*, 72-75. (Highlighted in www.chemie.de/news/e/42348, PhysOrg.com, and FuelCellWorks.com)
95. “Chiral Molecular Squares Based on Angular Bipyridines: Self-Assembly, Characterization, and Photophysical Properties.” Lee, S.J.; Kim, J.S.; Lin, W. *Inorg. Chem.* **2004**, *43*, 6579-6588. [[pdf](#)]
94. “4,4'-Disubstituted BINAPs for Highly Enantioselective Ru-Catalyzed Asymmetric Hydrogenation of Ketones.” Hu, A.; Ngo, H.L.; Lin, W. *Org. Lett.* **2004**, *6*, 2937-2940. [[pdf](#)]
93. “Mesoporous silica anchored Ru catalysts for highly enantioselective hydrogenation of β -ketoesters.” Kesanli,

- B.; Lin, W. *Chem. Commun.* **2004**, 2284-2285.
92. "Expeditious Assembly of Mesoscopic Metallocycles." Jiang, H.; Lin, W. *J. Am. Chem. Soc.* **2004**, *126*, 7426-7427. (Highlighted in 18 June 2004 issue of *Science*) [[pdf](#)]
91. "Remarkable 4,4'-Substituent Effects on Binap: Highly Enantioselective Ru Catalysts for Asymmetric Hydrogenation of *b*-Aryl Ketoesters and Their Immobilization in Room-Temperature Ionic Liquids." Hu, A.; Ngo, H.L.; Lin, W. *Angew. Chem., Int. Ed.* **2004**, *43*, 2501-2504. (Highlighted in *Green Chemistry*, **2004**, *6*, G57-G58)
90. "Luminescent homochiral silver(I) lamellar coordination networks built from helical chains." Wu, C.; Ngo, H.L.; Lin, W. *Chem. Commun.* **2004**, 1588-1589.
89. "Nonlinear Optically Active Zinc and Cadmium *p*-Pyridinecarboxylate Coordination Networks." Ayyappan, P.; Sirokman, G.; Evans, O.R.; Warren, T.H.; Lin, W. *Inorg. Chim. Acta* **2004**, *357*, 3999-4004.
88. "Chiral Macrocycles." Lee, S.J.; Lin, W. *Encyclopedia of Nanoscience and Nanotechnology*, **2004**, pp863-875.
87. "Molecular building block approaches to chiral porous zirconium phosphonates for asymmetric catalysis." Ngo, H.L.; Hu, A.; Lin, W. *J. Mol. Catal. A: Chemical* **2004**, *215*, 177-186.
86. "Chiral Metallacyclophanes: Self-Assembly, Characterization, and Application in Asymmetric Catalysis." Jiang, H.; Lin, W. *Org. Lett.* **2004**, *6*, 861-864. [[pdf](#)]
85. "Chiral porous coordination networks: rational design and applications in enantioselective processes." Kesanli, B.; Lin, W. *Coord. Chem. Rev.* **2003**, *246*, 305-326.
84. "Synthesis and x-ray structures of 2D coordination networks based on dinuclear and trinuclear vanadium oxo clusters." Lin, W.; Ayyappan, P. *Polyhedron* **2003**, *22*, 3037-3042.
83. "Directed assembly of chiral organometallic squares that exhibit dual luminescence." Lee, S.J.; Luman, C.R.; Castellano, F.N.; Lin, W. *Chem. Commun.* **2003**, *17*, 2124-2125.
82. "Chiral Porous Hybrid Solids for Practical Heterogeneous Asymmetric Hydrogenation of Aromatic Ketones." Hu, A.; Ngo, H.L.; Lin, W. *J. Am. Chem. Soc.* **2003**, *125*, 11490-11491 (Highlighted in *Angew. Chem., Int. Ed.* **2004**, *43*, 5726-5729). [[pdf](#)]
81. "Self-Assembly of Chiral Molecular Polygons." Jiang, H.; Lin, W. *J. Am. Chem. Soc.* **2003**, *125*, 8084-8085. (Highlighted in 27 June 2003 issue of *Science*) [[pdf](#)]
80. "Interlocked Chiral Nanotubes Assembled from Quintuple Helices." Cui, Y.; Lee, S.J.; Lin, W. *J. Am. Chem. Soc.* **2003**, *125*, 6014-6015. [[pdf](#)]
79. "Chiral Porous Hybrid Solids for Highly Enantioselective Heterogeneous Asymmetric Hydrogenation of β -Keto Esters." Hu, A.; Ngo, H.L.; Lin, W. *Angew. Chem., Int. Ed.* **2003**, *42*, 6000-6003 (Highlighted in *Angew. Chem., Int. Ed.* **2004**, *43*, 5726-5729).
78. "Highly enantioselective catalytic asymmetric hydrogenation of β -keto esters in room temperature ionic liquids." Ngo, H.L.; Hu, A.; Lin, W. *Chem. Commun.* **2003**, 1912-1913.
77. "Molecular Networks as Novel Materials." Lin, W.; Ngo, H.L. In *Chemistry of Nanostructured Materials*, Yang, P. Ed. World Scientific, New Jersey, **2003**, 261-290.
76. "A Homochiral Triple Helix Constructed from an Axially Chiral Bipyridine." Cui, Y.; Ngo, H.L.; Lin, W. *Chem. Commun.* **2003**, 1388-1389.
75. "Homochiral 3D Porous Frameworks Assembled from 1- and 2-D Coordination Polymers." Cui, Y.; Ngo, H.L.; Lin, W. *Chem. Commun.* **2003**, 994-995.
74. "A Chiral Metallacyclophane for Asymmetric Catalysis." Jiang, H.; Hu, A.; Lin, W. *Chem. Commun.* **2003**, 96-97.
73. "Hierarchical Assembly of Homochiral Porous Solids Using Coordination and Hydrogen Bonds." Cui, Y.; Ngo, H.L.; White, P.S.; Lin, W. *Inorg. Chem.* **2003**, *42*, 652-654. [[pdf](#)]
72. "Chiral Crown Ether Pillared Lamellar Lanthanide Phosphonates." Ngo, H.L.; Lin, W. *J. Am. Chem. Soc.* **2002**, *124*, 14298-14299. [[pdf](#)]

71. "Self-Assembly of Nanoscale, Porous T-Symmetric Molecular Adamantanoids." Cui, Y.; Ngo, H.L.; Lin, W. *Inorg. Chem.* **2002**, *41*, 5940-5942. [[pdf](#)]
70. "The First Organometallic Triangle for Asymmetric Catalysis." Lee, S.J.; Hu, A.; Lin, W. *J. Am. Chem. Soc.* **2002**, *124*, 12948-12949. (Highlighted in 25 October 2002 issue of *Science*) [[pdf](#)]
69. "Nonlinear Optically Active Polymeric Coordination Networks Based on Metal *m*-Pyridylphosphonates." Ayyappan, P.; Evans, O.R.; Cui, Y.; Wheeler, K.A.; Lin, W. *Inorg. Chem.* **2002**, *41*, 4978-4980. [[pdf](#)]
68. "Chiral Ruthenium-Terpyridine Based Metallodendrimers: Facile Synthesis, Characterization, and Photophysical Studies." Jiang, H.; Lee, S.J.; Lin, W. *J. Chem. Soc., Dalton Trans.* **2002**, *18*, 3429-3433.
67. "Synthesis and X-ray Structures of Cadmium(II) Pyridinecarboxylate Coordination Networks." Lin, W.; Evans, O.R.; Cui, Y. *Cryst Growth Design*, **2002**, *2*, 409-414. [[pdf](#)]
66. "Crystal Engineering of NLO Materials Based on Metal-Organic Coordination Networks." Evans, O.R.; Lin, W. *Acc. Chem. Res.* **2002**, *35*, 511-522. [[pdf](#)]
65. "A Novel Coordination Polymer Containing both Interdigitated 1D Chains and Interpenetrated 2D Grids." Ayyappan, P.; Evans, O.R.; Lin, W. *Inorg. Chem.* **2002**, *41*, 3328-3330. [[pdf](#)]
64. "Chiral Hybrid Metal-Organic Dendrimers." Jiang, H.; Lee, S.; Lin, W. *Org. Lett.* **2002**, *4*, 2149-2152. [[pdf](#)]
63. "Rational Design of Homochiral Solids Based on 2D Metal Carboxylates." Cui, Y.; Evans, O.R.; Ngo, H.L.; White, P.S.; Lin, W. *Angew. Chem., Int. Ed.* **2002**, *41*, 1159-1162.
62. "A New Rigid Angular Dicarboxylic Acid for the Construction of Nanoscopic Supramolecules. From a Molecular Rectangle to a 1D Coordination Polymer." Cui, Y.; Ngo, H.L.; Lin, W. *Inorg. Chem.* **2002**, *41*, 1033-1035. [[pdf](#)]
61. "A Novel Chiral Molecular Square with Metallo-corners for Enantioselective Sensing." Lee, S.; Lin, W. *J. Am. Chem. Soc.* **2002**, *124*, 4554-4555. (Highlighted in *Anal. Chem.*, **2002**, *74*, p359a and *Chem. Eng. News*, **2002**, *80*(23), p57) [[pdf](#)]
60. "Facile Synthesis of Chelating Bisphosphine Oxides and Bisphosphines Via Palladium-Catalyzed Bishydrophosphinylation Reactions." Allen, Jr., A.; Ma, L.; Lin, W. *Tetrahedron Lett.* **2002**, *43*, 3707-3710.
59. "Synthesis, Characterization, and Photophysical Properties of Chiral Dendrimers Based on Well-Defined Oligonaphthyl Cores." Ma, L.; Lee, S.; Lin, W. *Macromolecules* **2002**, *35*, 6178-6184. [[pdf](#)]
58. "Homochiral 3D Lanthanide Coordination Networks with An Unprecedented 4⁹6⁶ Topology." Cui, Y.; Ngo, H.L.; White, P.S.; Lin, W. *Chem. Commun.* **2002**, 1666-1667.
57. "Well-Defined Enantiopure 1,1'-Binaphthyl-Based Oligomers: Synthesis, Structure, Photophysical Properties, and Chiral Sensing" Ma, L.; White, P.S.; Lin, W. *J. Org. Chem.* **2002**, *67*, 7577-7586. [[pdf](#)]
56. "Homochiral Metal-Organic Frameworks Based on Transition Metal Bisphosphonates." Evans, O.R.; Manke, D.R.; Lin, W. *Chem. Mater.* **2002**, *14*, 3866-3874. [[pdf](#)]
55. "Nanoscale Consecutive Self-Assembly of Thin-Film Molecular Materials for Electrooptic Switching. Chemical Streamlining and Ultrahigh Response Chromophores." van der Boom, M.E.; Zhu, P.; Evmenenko, G.; Malinsky, J.E.; Lin, W.; Dutta, P.; Marks, T.J. *Langmuir* **2002**, *18*, 3704-3707.
54. "Chiral Porous Solids Based on Lamellar Lanthanide Phosphonates." Evans, O.R.; Ngo, H.L.; Lin, W. *J. Am. Chem. Soc.* **2001**, *123*, 10395-10396. (Highlighted in 12 October 2001 issue of *Science*) [[pdf](#)]
53. "New Open Frameworks Based on Metal Pyridylphosphonates." Ayyappan, P.; Evans, O.R.; Foxman, B.M.; Wheeler, K.A.; Warren, T.H.; Lin, W. *Inorg. Chem.* **2001**, *40*, 5954-5961.
52. "Crystal Engineering of NLO Materials Based on Interpenetrated Diamondoid Coordination Networks." Evans, O.R.; Lin, W. *Chem. Mater.* **2001**, *13*, 2705.
51. "Rational Design of NLO Materials Based on 2D Coordination Networks." Evans, O.R.; Lin, W. *Chem. Mater.* **2001**, *13*, 3009-3017.

50. "Synthesis and X-Ray Structures of 2D Coordination Networks Based on Dinuclear and Trinuclear Vanadium Oxo Clusters." Lin, W.; Ayyappan, P. *Polyhedron*, **2003**, *22*, 3037-3042.
49. "An Improved Coupling Reaction for the Preparation of Pyridylethynyl Benzonitrile Compounds." Wang, Z.; Lin, W.; Jiang, C.; Guo, Q. *Chin. Sci. Bull.* **2001**, *46*, 1606-1608.
48. "Self-Assembled Multilayer Films: Second-Order Nonlinear Optical Applications." Lin, W.; Evans, O.R. in *Encyclopedia of Materials Science and Technology*, Pergamon, Amsterdam, **2001**.
47. "Three-Dimensional Open Frameworks Based on Cobalt(II) and Nickel(II) *meta*-Pyridinecarboxylates." Ayyappan, P.; Evans, O.R.; Lin, W. *Inorg. Chem.* **2001**, *40*, 4627.
46. "The first four-fold interpenetrating diamondoid framework that traps gaseous molecules: {Zn[trans-3-(4-pyridyl)acrylate]₂·(trans-2-butene)_n}." Zhang, J.; Lin, W.; Chen, Z.-F.; Xiong, R.-G.; Abrahams, B.F.; Fun, H.-K. *J. Chem. Soc., Dalton Trans.* **2001**, 1806-1808.
45. "Synthesis of Zinc Oxalate Coordination Polymers via Unprecedented Oxidative Coupling of Methanol to Oxalic Acid." Evans O.R.; Lin, W. *Cryst. Growth Design* **2001**, 9-11.
44. "Synthesis, X-ray Structures, and Magnetic Properties of Copper(II) Pyridinecarboxylate Coordination Networks." Chapman, M.E.; Ayyappan, P.; Foxman, B.M.; Yee, G.T.; Lin, W. *Cryst. Growth Design*, **2001**, 159-163.
43. "NLO-active zinc(II) and cadmium(II) coordination networks with 8-fold diamondoid structures." Lin, W.; Ma, L.; Evans, O.R. *Chem. Commun.*, **2000**, 2263-2264.
42. "Towards Rational Synthesis of Polar Solids. Synthesis and X-ray Structures of Cadmium(II) *meta*-Pyridinecarboxylate Coordination Polymers." Evans, O.R.; Lin, W. *J. Chem. Soc., Dalton Trans.* **2000**, 3949-3954.
41. "Three-Dimensional Manganese(II) Coordination Polymers Based on *meta*-Pyridinecarboxylates: Synthesis, X-ray Structures, and Magnetic Properties." Lin, W.; Chapman, M.E.; Wang, W.; Yee, G.T. *Inorg. Chem.* **2000**, *39*, 4169-4173.
40. "Synthesis of Functional Bisphosphonates via New Palladium-Catalyzed Bis-hydrophosphorylation Reactions." Allen, Jr., A, Manke, D.R.; Lin, W. *Tetrahedron Lett.* **2000**, *41*, 151-154.
39. "Pillared, 3D Metal-Organic Coordination Networks with Rectangular Channels. Synthesis and Characterization of Coordination Polymers Based on Tricadmium Carboxylates." Evans, O.R.; Lin, W. *Inorg. Chem.* **2000**, *39*, 2189-2198.
38. "A Pillared 3D Manganese(II) Coordination Network Containing Rectangular Channels: Synthesis, X-Ray Structure, and Magnetic Properties". Lin, W.; Evans, O.R.; Yee, G.T. *J. Solid State Chem.* **2000**, *152*, 152-158.
37. "A Novel Octupolar Metal-Organic NLO Material Based on a Chiral 2D Coordination Network". Lin, W.; Wang, Z; Ma, L. *J. Am. Chem. Soc.* **1999**, *121*, 11249-11250.
36. "Luminescent Lanthanide Coordination Polymers." Ma, L.; Evans, O.R.; Foxman, B.M., Lin, W. *Inorg. Chem.*, **1999**, *38*, 5837-5840.
35. "Cobalt-Mediated Synthesis of 2-(4-Pyridyl)benzimidazole. X-ray Structures of Co[2-(4-pyridyl)benzimidazole]₂(H₂O)₂(NO₃)₂ and [Co(isonicotinate) (4-pyridiniumcarboxylate) (H₂O)(NO₃)]_∞." Wang, Z.; Wilson, S.R.; Foxman, B.M.; Lin, W. *Crystal Engineering*, **1999**, *2*, 91- 100.
34. "Crystal Engineering of Acentric Diamondoid Metal-Organic Coordination Networks " Evans, O.R.; Xiong, R.-G.; Wang, Z.; Wong, G.K.; Lin, W. *Angew. Chem. Int. Ed. Engl.*, **1999**, *38*, 536-538.
33. "Two- and Three-Dimensional Cadmium Coordination Polymers Based on N,N-(2-Pyridyl)-(4-Pyridylmethyl)amine." Wang, Z.; Xiong, R.-G.; Foxman, B.M.; Wilson, S.R.; Lin, W. *Inorg. Chem.*, **1999**, *38*, 1523-1528.
32. "An Unprecedented 3D Coordination Network Composed of Two Intersecting Helices." Evans, O.R.; Wang, Z.; Lin, W. *Chem. Commun.* **1999**, 1903-1904.
31. "Unprecedented Insertion of Alkynes into a Palladium-Phosphine Bond. A Facile Route to Palladium-Bound Alkenyl Phosphorus Ylides." Allen, A.; Lin, W. *Organometallics*, **1999**, *18*, 2922-2925.

30. "Coordination Chemistry of 2,4'-Bipyridine. Synthesis and Structures of $\text{Co}(2,4'\text{-bipyridine})_2(\text{NO}_3)_2(\text{H}_2\text{O})$ and $\text{Cd}(2,4'\text{-bipyridine})_2(\text{NO}_3)_2(\text{H}_2\text{O})_2$." Wang, Z.; Xiong, R.-G.; Naggar, E.; Foxman, B.M.; Lin, W. *Inorg. Chim. Acta.*, **1999**, 288, 215-219.
29. "Nanoporous, Interpenetrated Metal-Organic Diamondoid Networks." Evans, O.R.; Wang, Z.; Xiong, R.-G.; Foxman, B.M.; Lin, W. *Inorg. Chem.*, **1999**, 38, 2969-2973.
28. "Metal-to-Metal Silyl Migration and Silicon-Carbon Bond Cleavage/Re-formation Processes in the Methylene/Silyl Complexes $\text{Cp}^*\text{Ru}_2(\mu\text{-CH}_2)(\text{SiR}_3)(\mu\text{-Cl})$." Shelby, Q.D.; Lin, W.; Girolami, G.S. *Organometallics*, **1999**, 18, 1904-1910.
27. "Supramolecular Engineering of Chiral and Acentric 2D Networks. Synthesis, Structures, and Second-Order Nonlinear Optical Properties of Bis(nicotinato)zinc and Bis{3-[2-(4-pyridyl)-ethenyl]benzoato}cadmium." Lin, W.; Evans, O.R.; Xiong, R.-G.; Wang, Z. *J. Am. Chem. Soc.*, **1998**, 120, 13272-13273.
26. "Bis(isonicotinato)iron(II): A Rare, Neutral Three-Dimensional Iron Coordination Polymer." Xiong, R.G.; Wilson, S.R.; Lin, W. *J. Chem. Soc., Dalton Trans.*, **1998**, 4089-4090.
25. "Selective Chemical Vapor Deposition of Palladium and Platinum Directed by Patterned, Microcontact Printed Self-Assembled Monolayers." Jeon, N.L.; Lin, W.; Girolami, G.S.; Nuzzo, R.G. *Langmuir*, **1997**, 13, 3833-3838.
24. "Additive Fabrication of Integrated Ferroelectric Thin Film Capacitors Using Self-Assembled Monolayer Templates." Jeon, N.L.; Clem, P.; Jung, D.Y.; Lin, W.; Girolami, G.S.; Payne, D.A.; Nuzzo, R.G. *Adv. Mater.*, **1997**, 9, 891-895.
23. "Specular X-Ray Reflectivity Studies of Microstructure and Ordering in Self-Assembled Multilayers." Malik, A.; Lin, W.; Durbin, M.K.; Marks, T.J.; Dutta, P. *J. Chem. Phys.*, **1997**, 107, 645-652.
22. "X-ray Standing Wave Studies of Self-Assembled Chromophoric Superlattices with Large Second-Order Optical Nonlinearity." Lin, W.; Lee, T.-L.; Lyman, P.F.; Lee, J.; Bedzyk, M.F.; Marks, T.J. *J. Am. Chem. Soc.*, **1997**, 119, 2205-2211.
21. "Frequency Doubling in Two-Component Self-Assembled Chromophoric Waveguide Structures." Lundquist, P.M.; Lin, W.; Zhou, H.; Hahn, D.N.; Yitzchaik, S.; Marks, T.J.; Wong, G.K. *Appl. Phys. Lett.* **1997**, 70, 1941-1943.
20. "Synthesis and Reactivity of New Dinuclear Platinum Complexes. X-ray Single Crystal Structure of $[\text{Pt}_2(\mu, \eta^2, \eta^2\text{-hfac})(\text{PMe}_3)_4][\text{hfac}]$." Lin, W.; Wilson, S.R.; Girolami, G.S. *Inorg. Chem.*, **1997**, 36, 2662-2669.
19. "Synthesis and Reactivity of New Ruthenium Alkyls and Hydrides. Protonation of $\text{Cp}^*\text{Ru}(\text{PR}_2\text{CH}_2\text{PR}_2)\text{Me}$ and X-ray Crystal Structure of $\text{Cp}^*\text{Ru}_2(\mu\text{-dppm})(\text{AlH}_5)$." Lin, W.; Wilson, S.R.; Girolami, G.S. *Organometallics*, **1997**, 16, 2987-2994.
18. "Carbon-Carbon Bond Formation Promoted by Organoruthenium Complexes. The First Unsubstituted Metallabenzene Complex $\text{Cp}^*\text{Ru}_2(\mu, \eta^2, \eta^5\text{-C}_5\text{H}_5)(\text{SiMe}_3)$ and Synthesis of the Tetra(methylene)ethane Complex $\text{Cp}^*\text{Ru}_2(\eta^3, \eta^3\text{-C}_6\text{H}_8)\text{Cl}_4$." Lin, W.; Wilson, S.R.; Girolami, G.S. *Organometallics*, **1997**, 16, 2356-2361.
17. "Additive Fabrication of Integrated Multilevel Thin Film Microstructures Using Printed Thin-Film Templates." Jeon, N.L.; Clem, P.; Jung, D.Y.; Lin, W.; Finnie, K.; Erhardt, M.; Girolami, G.S.; Payne, D. A.; Nuzzo, R.G. *Polymeric Mater. Sci. Eng.* **1997**, 77 398-399.
16. "Supramolecular Approaches to Second-Order Nonlinear Optical Materials. Self-Assembly and Microstructural Characterization of Intrinsically Acentric Aminophenylazopyridinium Superlattices." Lin, W.; Lin, W.; Wong, G.K.; Marks, T.J. *J. Am. Chem. Soc.*, **1996**, 118, 8034-8042.
15. "Mechanistic Studies of Palladium Thin Film Growth from Palladium(II) β -Diketonates. 1. Spectroscopic Studies of the Reactions of Bis(hexafluoroacetylacetonato)palladium(II) on Copper Surfaces." Lin, W.; Wiegand, B.C.; Nuzzo, R.G.; Girolami, G.S. *J. Am. Chem. Soc.*, **1996**, 118, 5977- 5987.
14. "Mechanistic Studies of Palladium Thin Film Growth from Palladium(II) β -Diketonates. 2. Kinetic Analysis

- of the Transmetalation Reaction of Bis(hexafluoroacetylacetonato)palladium(II) on Copper Surfaces." Lin, W.; Nuzzo, R.G.; Girolami, G.S. *J. Am. Chem. Soc.*, **1996**, *118*, 5988-5996.
13. "New, Highly Efficient Synthetic Approaches to Self-Assembled Chromophoric Multilayers As Second-Order Nonlinear Optical Materials." Lin, W.; Marks, T.J., Yitzchaik, S.; Lin, W.; Wong, G.K. *Mater. Res. Soc. Sym. Proc.*, **1995**, *392*, 95-101.
 12. "New Nonlinear Optical Materials. Expedient Topotactic Self-assembly of Acentric Chromophoric Superlattices." Lin, W.; Yitzchaik, S.; Lin, W.; Malik, A.; Durbin, M.K.; Richter, A.G.; Wong, G.K.; Dutta, P.; Marks, T.J. *Angew. Chem. Int. Ed. Engl.*, **1995**, *34*, 1497-1499.
 11. "A New, Efficient Topotactic Route to Chromophoric Self-Assembled Superlattices." Yitzchaik, S.; Lin, W.; Marks, T.J. *Polym. Mater. Sci. Eng.* **1995**, *72*, 217-18.
 10. "A Reversible Si-C Bond Cleavage Process. Dynamics and Reactivity $Cp^*_2Ru_2(\mu-CH_2)(SiMe_3)Cl$." Lin, W.; Wilson, S.R.; Girolami, G.S. *Organometallics* **1994**, *13*, 2309-2319.
 9. "Synthesis and X-Ray Crystal Structure of the New Palladium(I) Dimer $[Pd_2(PMe_3)_6][hfac]_2$ and its Conversion to $[PdMe(PMe_3)_3][hfac]$ via Activation of Phosphorus-Carbon Bonds." Lin, W.; Wilson, S.R.; Girolami, G.S. *Inorg. Chem.* **1994**, *33*, 2265-2272.
 8. "Surface-Selective Deposition of Palladium and Silver Films from Metal-organic Precursors: A Novel MOCVD Redox Transmetalation Process." Lin, W.; Warren, T.H.; Nuzzo, R.G.; Girolami, G.S. *J. Am. Chem. Soc.* **1993**, *115*, 11644-11645.
 7. "The First Unsubstituted Metallabenzene Complex: $Cp^*_2Ru_2(\eta^2, \eta^5-C_5H_5)(SiMe_3)$." Lin, W.; Wilson, S.R.; Girolami, G.S. *J. Chem. Soc., Chem. Comm.* **1993**, 284-285.
 6. "Reversible C-Si Bond Cleavage in the Methylene/Silyl Complex $Cp^*_2Ru_2(\mu-CH_2)(SiMe_3)Cl$." Lin, W.; Wilson, S.R.; Girolami, G.S. *J. Am. Chem. Soc.* **1993**, *115*, 3022-3023.
 5. "X-ray Crystal Structure and Electronic Spectrum of the Complex $[Co(C_3H_4N_2)_4(H_2O)_2]-(C_6H_4COSO_2N)_2$." Li, J.; Zhang, Y.; Lin, W.; Liu, S.; Huang, J. *Polyhedron* **1992**, *11*, 419-422.
 4. "Synthesis, Crystal Structure, and Spectral Studies of the Complex $[Ni(C_3H_4N_2)_4(H_2O)_2]-(C_6H_4COSO_2N)_2$." Zhang, Y.; Li, J.; Lin, W.; Liu, S.; Huang, J. *J. Cryst. Spectr. Res.* **1992**, *22*, 433- 438.
 3. "Structure of a Copper Complex containing Saccharin and Imidazole: $[Cu_2(C_6H_4COSO_2N)_4-(C_3H_4N_2)_4]$." Liu, S.; Huang, J.; Li, J.; Lin, W. *Acta Cryst.* **1991**, *C47*, 41-43.
 2. "X-ray Crystal Structure and Spectral Studies of $[Cu(C_{10}H_8N_2)_2(C_6H_4COSO_2N)](C_6H_4COSO_2N)(H_2O)_3$." Li, J.; Lin, W.; Zhang, Y.; Liu, S.; Huang, J. *Polyhedron* **1991**, *10*, 403-407.
 1. "Crystal and Molecular Structure of $Sr[Co(HEDTA)(H_2O)]_2(H_2O)_4$." Li, J.; Lin, W.; Zheng, Y.; Wu, *Huaxue Wuli Xuebao* (Eng), **1989**, *2*, 379-383.

6. Invited Seminars/Conference and Workshop Talks

- | | |
|------------|-----------------------------------------------------------------------------------------|
| 12/8/2023 | Xiamen University School of Public Health Nanqiang Lecture |
| 11/14/2023 | University of Illinois Department of Chemistry Seminar |
| 11/10/2023 | United Display Corporation Virtual Seminar Series |
| 11/3/2023 | NCI Workshop on "Nanomedicine: Which Cancers to Treat?" |
| 9/22/2023 | Nobel Symposium 193 on Metal-Organic Frameworks, Karlskoga, Sweden |
| 9/18/2023 | Pre-Nobel Symposium on Metal-Organic Frameworks, Stockholm University |
| 8/31/2023 | Fujian Institute on Research of Structure of Matter |
| 8/29/2023 | 13 th International Symposium for Chinese Inorganic Chemists, Beijing, China |
| 8/26/2023 | Tianjin University of Science and Technology |
| 8/25/2023 | Tianjin University |
| 8/24/2023 | University of Science and Technology of China |
| 8/23/2023 | Hefei University of Technology |
| 8/22/2023 | Westlake University (The 184 th Speaker at Westlake Master Forum) |
| 8/21/2023 | Xiamen University |
| 8/19/2023 | Southern Medical University, Guangzhou, China |
| 8/15/2023 | Hong Kong University of Science and Technology |
| 2/21/2023 | KAUST Sustainable Catalysis Conference, Saudi Arabia |

11/8/2022 University of Rutgers Department Seminar
 5/5/2022 University of Toronto Princess Margaret Cancer Centre Virtual Seminar
 5/3/2022 University of Science and Technology of Beijing 70th Anniversary Seminar Series Virtual Seminar
 2/25/2022 Kansas State University Department of Chemistry Zoom Seminar
 11/4/2021 MD Anderson Cancer Center Zoom Seminar
 8/15/2021 Chinese University of Hong Kong (Shenzhen) Wutong Forum Online Seminar
 3/25/2020 National ACS Meeting Green Chemistry and Engineering Symposium, Philadelphia, PA (canceled due to COVID-19 pandemic)
 12/13/2019 Peking University College of Chemistry and Molecular Engineering Xingda Lectureship
 11/20/2019 Nature Conference on Physical Properties of Metal-Organic Frameworks, Tianjin, China
 10/25/2019 UC-Berkeley Nanoscale Science and Engineering Seminar
 9/25/2019 NCI Alliance for Nanotechnology in Cancer Annual Meeting, Rockville, MD
 9/18/2019 Lanzhou University College of Chemistry and Chemical Engineering Wenkui Lectureship
 7/1/2019 17th International Photodynamic Association World Congress in Boston, MA
 6/26/2019 Cancer Nanotechnology Gordon Research Conference, Mt Snow, Vt
 5/30/2019 Yaoyuan BioPharma Symposium
 2/20/2019 UCLA Inorganic Chemistry Seminar
 12/13/2018 Sun Yat-sen Univ. College of Chemistry
 10/11/2018 SUNY Stony Brook ICB&DD 12th Annual Symposium on "Frontiers of Nanomedicine: Drug Delivery, Therapeutics and Diagnosis"
 10/10/2018 NCI Cancer Nanotechnology Investigator Meeting (Nanotechnology-enabled Immunotherapies)
 9/21/2018 Marquette University Nakamoto Distinguished Lecture in Chemistry
 3/26/18 PittCon "Hybrid Nanostructured Materials for Analytical and Bioanalytical Applications" Symposium, Orlando, FL.
 1/28/18 Solar Fuels Gordon Research Conference, Ventura, CA
 11/10/17 University of Iowa Department of Chemistry Colloquium
 10/3/17 NCI Cancer Nanotechnology Investigator Meeting (Innovative Nanotechnology for Cancer Immunotherapy)
 10/1/17 USTC New York Summit (Life Science Symposium -- Innovative Nanotechnology for Cancer Immunotherapy)
 6/10/17 16th International Photodynamic Association World Congress in Coimbra, Portugal (Nanoparticle-Based Photodynamic Therapy to Enhance Checkpoint Blockade Immunotherapy)
 6/7/17 RSC Bioorthogonal and Bioresponsive Symposium in Edinburgh, UK (Leveraging Inorganic Chemistry for Cancer Therapy)
 6/6/17 Faraday Discussion: New Directions in Porous Crystalline Materials in Edinburgh, UK (Phenanthroline-based Metal-organic Frameworks for Fe-Catalyzed C_{sp}³-H Amination)
 5/16/17 Catalysis Club of Chicago 2017 Spring Symposium (Metal-organic Frameworks for Sustainable Catalysis)
 4/2-4/17 National ACS Meeting in San Francisco, CA ("Metal-Organic Frameworks for Sustainable Catalysis" in Marks Symposium; "Hybrid Nanomaterials for Treating Resistant Cancers" in Feng Symposium; "Metal-Organic Frameworks for Artificial Photosynthesis" in Fuels division symposium)
 1/28/17 SPIE Photodynamic Therapy Meeting in San Francisco, CA (Nanoscale Metal-Organic Frameworks for Photodynamic Therapy and Cancer Immunotherapy)
 11/1/16 NCI Cancer Nanotechnology Investigator Meeting
 10/13/16 5th International Solar Fuels and Solar Cells symposium in Dalian, PRC (Metal-Organic Frameworks for Artificial Photosynthesis)
 9/7/16 Virginia Tech Department of Chemistry Symposium
 9/1/16 University of Tennessee Department of Chemistry Colloquium (Metal-organic Frameworks for Sustainable Catalysis and Cancer Therapy)
 8/21-23/16 Beijing Union Medical College Visiting Professorship (Metal-Organic Frameworks: Current Status and Future Perspectives, Metal-Organic Frameworks for Sustainable Catalysis, and Hybrid Molecular Materials for Cancer Therapy)

4/28/16 Carnegie Mellon University Department of Chemistry Seminar
 3/15/16 National ACS Meeting in San Diego, CA (Hybrid Molecular Materials for Cancer Therapy)
 2/3/16 Northeastern University Department of Chemistry Seminar
 12/14/15 ChemSpec Corporation Seminar (Metal-Organic Frameworks for Sustainable Catalysis)
 12/12/15 South China University of Technology College of Chemistry and Chemical Engineering
 Seminar (Metal-organic Frameworks for Cancer Therapy)
 10/13/15 ExxonMobil Seminar (Metal-Organic Frameworks for Sustainable Catalysis)
 10/9/15 UChicago Comprehensive Cancer Center Translational Seminar (Self-assembled multi-
 modality nanoparticles for personalized treatment of resistant ovarian cancer)
 9/10/15 UOP TCO Invitational Seminar Series (Metal-Organic Frameworks for Sustainable Catalysis)
 9/4/15 University of Nebraska Department of Chemistry Colloquium
 7/15/15 Zhejiang University Department of Chemistry (Metal-organic Frameworks as A Tunable
 Platform for Designing Functional Molecular Materials)
 6/16-17/15 Hong Kong University Department of Chemistry Seminars ()
 5/18/15 University of Washington Department of Materials Science and Engineering Seminar
 2/17/15 Argonne National Lab CSE Colloquium
 11/5/14 Argonne National Lab Materials Science Division Colloquium
 10/2/14 NCI Cancer Nanotechnology Investigator Meeting
 9/24/14 University of Wisconsin Inorganic Chemistry Seminar
 9/19/14 University of South Carolina Chemistry Seminar
 9/17/14 University of Pennsylvania Targeted Therapeutics and Translational Medicine Seminar Series
 9/5/14 Fujian Institute on Research of Structure of Matter
 8/10-14/14 San Francisco National ACS Meeting (8/10, nano-bio – Tian; 8/12, solar energy – Morris)
 7/28-29/14 Seawater U Resource Meeting, Sequim, WA (PNNL Marine Lab)
 7/18/14 Xi'an Jiaotong University Advanced Materials Institute
 7/11/14 Fudan University School of Life Sciences
 7/11/14 East China University of Science and Technology School of Materials Sciences
 6/22-27/14 Metals in Medicine Gordon Research Conference Invited Talk (Proctor Academy, NH)
 6/8-13/14 Inorganic Chemistry Gordon Research Conference Invited Talk (College of NE, Maine)
 5/15/14 Northwestern University BME/Radiology Seminar (downtown Chicago)
 4/29/14 Purdue University Inorg Chem Seminar, West Lafayette, IN
 3/25/14 Boston College Phys. Chem Seminar, Chestnut Hill, MA
 3/24/14 Brandeis Univ Dept of Chem Colloquium, Waltham, MA
 3/11/14 Univ of Missouri Kansas City School of Pharmacy, Kansas City, MO
 2/3/14 Univ of Georgia Inorg. Chem. Seminar, Athens, GA
 12/12/13 International Symposium on MOF and Related Open Framework Materials, Macao, China
 11/15/13 Univ of Texas-Dallas NanoScience Seminar, Dallas, TX
 11/12/13 Nitto Denko Company, San Diego, CA
 11/6/13 4th Asian Conference on Coordination Chemistry (ACCC 4), Jeju, Korea
 9/19/13 NCI Alliance For Cancer Nanotechnology Investigator Meeting, Bethesda, MD
 7/30/13 7th Chinese Coordination Chemistry Conference, Beijing, China
 7/1/13 DOE Catalysis Conference, Annapolis, MD
 4/7-10/13 New Orleans National ACS Meeting, New Orleans, LA
 3/18/13 PittCon New Reagents and New Technologies for Biological Imaging, Philadelphia, PA
 3/6/13 Texas A&M Univ Inorg Chem Seminar, College Station, TX
 11/15/12 Alliance For Cancer Nanotechnology Investigator Meeting, Houston, TX
 11/14/12 Rutgers University at Newark
 11/13/12 Rutgers University at New Brunswick
 11/8/12 Stanford University Nano-Bio seminar series
 10/24/12 6th Chinese Structural Chemistry Conference, Suzhou, China
 10/15/12 University of Chicago
 9/28/12 University of Memphis
 9/16/12 MOF2012, Edingurgh, UK
 9/10/12 University of Colorado at Boulder
 8/??/12 ACS National Meeting in Philadelphia, PA
 7/26/12 Director's Colloquium at Savannah River National Laboratory

5/12/12 Emory University
 4/27/12 Northwestern University
 3/21/12 MIT/Harvard Inorganic Seminar
 2/18/12 MIT/Bruker Symposium
 1/5/12 Nuclear Resources Project presentation, Oak Ridge National Lab (TN)
 12/16/11 Zhejiang University (Chemistry), P.R. China
 12/10/11 Plenary lecture, Workshop on Novel Functional Molecules for Biological Applications,
 Chinese University of Hong Kong, P.R. China
 12/9/11 Tongji University (Chemistry), P.R. China
 11/15/11 Yale University (Chemistry)
 10/27/11 Plenary lecture, 35th Macromolecular Sci & Eng Symposium, Univ of Michigan
 10/18/11 Eastman Lecture, UIUC (Chemistry)
 9/21-23/11 Alliance For Cancer Nanotechnology Investigator Meeting, Boston, MA
 8/18-19/11 Triangle Solar Fuel Workshop, Santa Fe, NM
 8/4-5/11 Nuclear Resources Workshop, Oak Ridge National Lab, TN 6/21/11
 GRC on Supramolecules and Assemblies (Lucca, Italy) 5/27/11
 DOE EFRC Energy Forum (Washington, D.C.)
 4/26/11 MRS Meeting Nanomaterial Characterization Symposium (San Francisco, CA)
 2/15/11 Washington Univ at St Louis (BME)
 2/14/11 Univ of Missouri at St. Louis (Chemistry)
 1/13/11 SERC invited talk, Chapel Hill, NC
 12/16/10 PacifiChem, Honolulu, HI (invited talks in both MOF and Nanomedicine symposia)
 12/1-3/10 MRS Fall Meeting, Boston, MA (co-organizer)
 11/15-17/10 NCI Cancer Nanotechnology Alliance Kickoff Meeting
 11/5/10 Nankai University, China
 11/4/10 Shanghai Jiaotong University, China
 10/31/10 AsAC Conference Keynote Lecturer, Bushan, Korea
 10/13-15/10 DOE Nuclear Resources Workshop, Boston, MA
 9/2/10 Virginia Commonwealth University
 8/22/10 ACS National Meeting Molecular Imaging Symposium, Boston, MA
 7/2/10 Fuzhou University, China
 7/1/10 Fujian Institute of Research on the Structure of Matter (CAS), China
 6/22/10 Zhejiang University "Seeking Truth" lecture
 6/11/10 Shangdong Univesity Crystal Growth Mechanism Conference, China
 5/18/10 NSF Inorganic Chemistry Workshop, Sante Fe, NM
 4/30/10 University of California at San Diego
 3/22/10 Supported Molecular Catalysts symposium, San Francisco ACS Meeting
 2/19/10 NCSU Department of Chemistry
 1/31/10 Society of Nuclear Medicine Winter Summit, Albuquerque, NM
 10/22/09 National Cancer Institute Nanotechnology Alliance Meeting, Los Angeles, CA
 9/19/09 Wake Forest University Center for Nanotechnology and Molecular Materials Symposium
 9/14-18/09 ISHHC XIV symposium, Stockholm, Sweden
 6/21-26/09 Inorganic Chemistry Gordon Conference, Biddeford, ME
 6/17-19/09 MOFCAT conference (closing lecture), Oslo, Norway
 3/16/09 Zing conference on Coordination Chemistry, Antigua
 2/25/09 Division of Molecular Pharmaceutics, UNC School of Pharamcy
 2/11/09 National University of Singapore Dept of Chemistry
 2/10/09 Institute of Bioengineering and Nanotechnology, Singapore
 2/6/09 UC-Berkeley Dept of Chemistry
 2/5/09 UC-Davis Dept of Chemistry
 2/4/09 UC-Santa Cruz Dept of Chemistry
 12/5/08 Tripathy Sukant Memorial Symposium, UMass-Lowell
 12/3/08 Materials Research Society Meeting, Boston MA
 11/14/08 C-CCNE Symposium, Chapel Hill, NC
 9/19/08 Queen's University Dept of Chemistry
 9/17/08 Univ of Toronto Dept of Chemistry

9/9/08 CCNE Investigator conference, Chicago
 7/28/08 University of Toyama Dept of Applied Chemistry
 7/24/08 Hokkaido University Catalysis Research Center
 7/17/08 Xiamen University College of Chemistry
 7/10/08 East China University of Science and Technology Dept of Polymer Sci & Eng
 7/8/08 Kyoto University (Japan)
 7/7/08 National Institute of Advanced Industrial Science and Technology, Osaka, Japan
 5/9/08, University of Iowa
 4/6-10/08 invited talks at Metal-organic Framework and Tobin J. Marks symposia
 4/4/08 Naff Symposium Speaker, Univ of Kentucky
 3/28/08 National Cancer Institute Workshop on in vivo imaging and diagnostics
 3/25/08 Syracuse University
 3/24/08 University of Rochester
 3/2-5/08 keynote lecture at SupraCat Conference in Barcelona, Spain
 11/16/07 New York University
 11/7/07 invited talk at AIChE National Meeting (Salt Lake City, Utah)
 11/2/07 College of Chemistry and Chemical Engineering, Zhongshan University, China
 11/1/07 College of Chemistry and Chemical Engineering, Xiamen University, China
 10/26/06 5th Chinese Structural Chemistry National Meeting, Fuzhou, China
 10/17/07 National Cancer Institute Nanotechnology Alliance Meeting
 9/21/07 College of William & Mary
 9/6/07 Clemson University
 9/4/07 Army Research Office pre-MURI meeting
 8/28/07 Northwestern University Catalysis Research Center Annual meeting
 8/19/07 Invited talk at 234th National ACS meeting in Boston, MA
 Xxx Invited seminar at NCI-Frederick
 Xxx Advance distinguished lectureship at Kansa State University
 Xxx American Crystallographic Association meeting in Orlando, FL
 Xxx Gordon Research Conference on Zeolites and Mesoporous Materials
 12/20/06 Fine Particle Society Annual Meeting, San Diego, CA
 10/17/06 University of Chicago
 10/26/06 University of Notre Dame
 10/12/06 14th NSF Workshop in Materials Chemistry (St. Louis, MO)
 7/8/06 Sino-US Joint Meeting in Nanoscience (Shanghai, China)
 4/21/06 Iowa State University
 12/17/05 PacifiChem2005, Honolulu, HI
 12/9/05 Oak Ridge National Lab
 11/18/05 Seoul National University (Korea)
 11/17/05 Pohang University of Science and Technology (Korea)
 11/14/05 First International Symposium on Chemistry of Coordination Space (Nagoya, Japan)
 10/28/05 13th NSF Workshop in Materials Chemistry (Alexandria, VA)
 10/21/05 University of California at Riverside
 10/7/05 Florida State University
 8/22/05 Fujian Institute of Research on the Structure of Matter, CAS
 5/3/05 University of Washington, Seattle
 5/2/05 Washington State University, Pullman
 3/4/05 University of Nebraska-Lincoln
 Feb 05 NSF/EPSCRC Workshop on Complex Systems in Boston, MA
 12/21/04 University of Science and Technology of China
 Dec 04 6th Chinese Young Chemist conference in Hong Kong
 6/8/04 NSF Inorganic workshop in Sedona, AZ
 3/11/04 Indiana University
 12/8/03 Institute of Chemistry, CAS
 12/6/03 University of Science and Technology of China
 12/1/03 Fujian Institute of Research on the Structure of Matter, CAS
 11/24/03 14th Catalysis Research Center International Conference in Hokkaido Univ, Japan

11/16/03 55th SERMACS Meeting, Atlanta, GA
 10/17/03 University of Kentucky
 9/7/03 226th National ACS meeting in New York, NY
 Aug 03 Beckman Young Investigator Annual Meeting
 Aug 03 Canadian Society of Chemistry/IUPAC Conference, Ottawa, Canada
 4/7/03 University of Florida
 3/23/03 225th National ACS meeting in New Orleans, LA
 3/21/03 University of Virginia
 3/13/03 University of Alabama
 2/14/03 University of South Carolina
 2/7/03 Georgia Institute of Technology
 12/7/02 University of Houston
 12/6/02 Texas A&M University
 11/13/02 54th SERMACS, Charleston, SC.
 10/31/02 Purdue University
 10/29/02 University of Illinois at Urbana-Champaign
 10/28/02 Northwestern University
 10/21/02 University of Cincinnati
 June 02 Canadian Chemical Society Annual Meeting in Vancouver, Canada
 4/16/02 Colorado State University
 04/07/02 223th National ACS Meeting, Orlando, FL
 3/28/02 University of Massachusetts at Amherst
 12/7/01 Virginia Polytechnic Institute and State University
 10/18/01 9th NSF Workshop in Materials Chemistry (Madison, WI)
 Jan 01 University of North Carolina at Chapel Hill
 Dec 00 Wayne State University
 Dec 00 University of Chicago
 Oct 00 University of Southern California
 Sept 00 Dalton Discussion on Inorg. Cryst. Eng. sponsored by RSC, Bologna, Italy
 July 00 NSF Inorganic Chemistry Workshop, Baltimore, MD
 6/17/00 Gordon Conference Organic Structures and Properties: Extended Systems, Connecticut College

 April 00 Georgetown University
 April 00 Boston College
 March 00 219th National ACS Meeting, San Francisco, CA
 Nov 99 Materials Society Meeting in Boston, MA
 Aug 99 Chairing a Novel Materials session in 218th National ACS Meeting in New Orleans, LA
 March 99 217th National ACS Meeting in Anaheim, CA
 Feb 99 Dartmouth College
 Dec 98 Materials Research Society Meeting in Boston, MA
 10/15/98 6th NSF Materials Chemistry Workshop, Morristown, NJ
 Oct 98 University of New Hampshire
 Sept 98 Union College
 Aug 98 Chairing a Solid State Chemistry session in 216th National ACS meeting in Boston, MA
 April 98 Clark University
 Feb 98 University of Massachusetts Lowell
 Dec 97 Materials Research Society Meeting in Boston, MA
 Oct 97 Saint Anselm College