Curriculum Vitae for Yanna Liang

Yanna Liang, Ph.D., P.E. BCEE
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1. Professional Preparation

Suzhou University of Science and Technology	Environmental Engineering	**B.E.**	07/1992
Utah State University	Environmental Engineering	**M.S.**	05/2003
Utah State University	Environmental Engineering	**Ph.D.**	05/2006
Utah Water Research Laboratory	Environmental Engineering	**Postdoc**	06-12/2006

Thesis: Degradation and intermediates of pyrene by *Mycobacterium* sp. JLX, KMS, and MCS, isolated from soil at a former wood-preserving facility. Advisor: Dr. Ronald C. Sims

Dissertation: Pyrene degradation by *Mycobacterium* sp. KMS: biochemical pathway, enzymatic mechanisms and humic acid effect. Advisor: Dr. Ronald C. Sims

2. Appointments

09/2021-	Founder and CEO	Regenerative Solutions, Inc.
09/2017-	Professor and Chair	University at Albany, SUNY
07/2016-08/2017	Professor	Southern Illinois University at Carbondale
07/2012-06/2016	Associate Professor	Southern Illinois University at Carbondale
08/2007-06/2012	Assistant Professor	Southern Illinois University at Carbondale
01/2007-07/2007	Air Quality Analyst III	Idaho Department of Environmental Quality
07/1992-08/2000	Professional Engineer	Weihai Environmental Protection Agency, China

3. Research interests

1) Biodegradation and phytoremediation of organic contaminants in subsurface and groundwater
2) Nanomaterials for environmental clean-up
3) Microbial ecology in engineered and natural systems
4) Fate and transport of engineered nanoparticles and emerging contaminants in aquatic and soil environments
5) Microbial electrochemical cells for CO_2 reduction

6) Biochemical and thermochemical conversion of renewable feedstocks to biofuels and bioproducts
7) Water reuse and wastewater treatment

4. Selected Honors and Awards

1) 2025 ACS ES&T Water Best Paper Award for 2024
2) 2024 Fellow of International Association of Advanced Materials
3) 2023 Inventor Recognition Award, University at Albany
4) 2023 Excellence in Research Leadership, University at Albany
5) 2021 Best Paper of International Journal of Coal Science & Technology
6) Top 2% Scientists 2020 - 2025
7) 2019 Outstanding Presentation Award of the ACS Spring 2019 National Meeting ENVR Symposium of Innovative & Practical Approaches for the Treatment of Per- and Polyfluoroalkyl Substances (PFAS)
8) 2015 Faculty Mentor of Excellence, Center for Undergraduate Research and Creative Activity
9) 2014 Faculty mentor for Kim Jarosz, First place (Physical Science/Engineering), SIUC Undergraduate Research Forum
10) 2013 McNair Outstanding Mentor, SIUC
11) 2011 Ruby Roknic, Saluki Research Rookies Poster Competition, Honorable mention
12) 2009 ASCE ExCEED Teaching Fellow
13) 2009 SIUC Research, Scholarly and Creative Activity Awards
14) 2006 AWRA-Utah section graduate student paper contest, first place
15) 2005 EWRI graduate student technical paper contest, second place
16) 2004-2006 Inland Northwest Research Alliance (INRA) fellow
17) 2004 Air & Waste Management Association (AWMA) Scholarship

5. Membership in Professional Societies

- Tau Beta Pi - the Engineering honor society
- Association of Environmental Engineering and Science Professors
- American Academy of Environmental Engineers & Scientists
- Air & Waste Management Association (Associate Editor)

6. Summary of Research Accomplishments

Total Research External Funding as a lead PI, co-PI and senior personnel: $>16 M

- Lead PI: >$10 M
- Co-PI: >$1.0 M
- Senior personnel: $5.0 M

Invited Book Chapters and Peer-Reviewed papers: 127

Conference presentations: 111

Postdoctoral scholars supervised: 16

MS/Ph.D. students supervised: 11

Undergraduate researchers supervised: 36

7. Publications and presentations

7.1. Book chapters

1) **Liang, Y.-N.,** Keshdan T., Sterner C., Dombrowski L., Petrick I., Kröger M., Höfer R. 2015. Algal Biorefinery. In Industrial Biorefineries & White Biotechnology. Edited by Ashok Pandey, Rainer Höfer, Christian Larroche, Mohammad Taherzadeh, and K Madhavan Nampoothiri. Elsevier. ISBN: 9780444634535. pp. 35-84.

2) **Liang, Y.-N.,** 2015. Update on research and development of microbial oils. In Commercializing Biobased Products: Opportunities, Challenges, Benefits, and Risks. Edited by Seth Snyder. The Royal Society of Chemistry. ISBN: 978-1-78262-039-6.

3) **Liang, Y.-N.,** 2013. Yellow (Huang He) River. In Biomes and Ecosystems: An Encyclopedia. Salem Press, Pasadena, CA. ISBN: 978-1-4298-3813-9. pp. 1317-1320.

4) **Liang, Y.-N.,** 2013. Yellow Sea. In Biomes and Ecosystems: An Encyclopedia. Salem Press, Pasadena, CA. ISBN: 978-1-4298-3813-9. pp. 1320-1322.

5) **Liang, Y.-N.,** 2011. Sweet sorghum as an energy crop. In Sorghum: Cultivation, Varieties and Uses. Edited by Tomás D. Pereira, Nova Science Publishers, Inc., Hauppauge, NY. ISBN: 978-1-61209-688-9.

6) **Liang, Y.-N.,** 2011. A critical review: microalgal CO_2 sequestration, which strain is the best? In Microalgae: Biotechnology, Microbiology and Energy. Nova Science Publishers, Inc., Hauppauge, NY. ISBN: 978-1-61324-625-2.

7) **Liang, Y.-N.,** 2011. Utilization of xylose for producing bio-based fuels. In Xylose: Production, Consumption and Health Benefits. Nova Science Publishers, Inc., Hauppauge, NY. ISBN: 978-1-62100-809-5.

7.2. Peer-reviewed Journal Publications (*: Graduate student; **: Undergraduate student)

8) Pervez, Md. N., Yeo, W. S., Tanvir, N. P., Mishu, Mst. M. R., Jiang, T., **Liang, Y**. Naddeo, V. 2026. Integrating machine learning and statistical design for sustainable Fenton catalysis: enhancing dye degradation in wastewater treatment. Chemical Engineering Communications, 1–19. https://doi.org/10.1080/00986445.2026.2666802.

9) Li, Y., Rosenthal, A., Zhang, J., Hawkins, T., Liang, L., Urgun-Demirtas, M., Bian, Y., Ren, Z., Tuteja, A., Speer, D. 2026. Technoeconomic and Life Cycle Analysis of an Integrated Fermentation and Microbial Electrochemical Process for Volatile Fatty Acid Production from Food Waste. ACS Sustainable Chemistry & Engineering. https://doi.org/10.1021/acssuschemeng.6c00297.

10) Ilango, A., Kharel, M., Zhang, W., **Liang, Y.** 2026. PFAS Uptake by Plants in Soils Amended with Biosolids Derived from Wastewater with Industrial Input. ACS Environmental Au. https://doi.org/10.1021/acsenvironau.6c00004.

11) Bitaraf, B., Pervez, M.N., Jiang, T., Ioanniti, M., Efstathiadis, H., Yigit, M., **Liang, Y.** 2026. Fast adsorption of short and long-chain PFAS from water by chemically modified sawdust. ES&T Water. 6, 873−883.

12) Pervez, M., Jiang, T., Ilango, A.K., Kumaran, Y., Zhang, Y., Zhang, W., Efstathiadis, H., Feldblyum, J.I., Yigit, M.V., Venkatesan, A.K., **Liang, Y.** 2026. Regenerable Graphene Nanoplatelet Adsorbents for Rapid and Trace-Level PFAS Removal from Water. ACS Omega. 11, 2, 2902–2916.

13) Pervez, M., Jiang, T., Li, B., Bitaraf, B., Ilango, A.K., Ioanniti, M.M.*, Schaeffer, C., Efstathiadis, H., Yigit, MV., **Liang, Y.** 2025. Cationically Modified PVA-Based Electrospun Nanofiber Membrane for Adsorptive PFAS Removal from Water. ACS Applied Engineering Materials. 4 (1), 93-106.

14) Jiang, T., Pervez, M., Ilango, A.K., **Liang, Y.** 2025. Stabilizing Per- and Polyfluoroalkyl Substances (PFAS) through Amending an Adsorbent to Contaminated Soil Planted with Alfalfa. Science of the Total Environment, Volume 1000, 20 October 2025, 180430.

15) Pervez, M.N., Ilango, A., Jiang T., Talukder, M., Ehsan, M., Cai, Y., **Liang, Y.** 2025. PFAS in the textile industry: Sources, fate, detection, and pathways toward sustainable remediation and regulation. Chemical Engineering Journal. 522, 168183.

16) Ehsan, M., Pervez, M.N., Alam, S.M., **Liang, Y.**, Vincenzo, V. 2025. PFAS in biotic and abiotic matrices in coastal and estuarine ecosystems: Temporal and seasonal distribution, discharge and environmental impacts. Journal of Environmental Quality. 54 (5), 893-912.

17) Qi, Y., Li, F., Zhang, C., Tang, X., Wang, C., **Liang, Y.**, Sun, H., Xing, B. 2025. Enhancement of the Coadsorption of Per-and Polyfluoroalkyl Substances onto Fe-MOF Derivative in Surface Water through Strengthening Hydrophobic Interactions. ACS ES&T Engineering. 5 (6), 1405-1416.

18) Ilango, A., Mekkat, R., Jeyalakshmi, V., Pervez, N., Jiang, T., Chand, P., Kumaran, Y., Sukalingum, D., Soos, M., **Liang, Y.**, 2025. Enhanced removal of PFAS in water using activated ZIF-8 carbons: high adsorption efficiency, repeatable regenerability and reusability. Chemical Engineering Journal. 507, 160192.

19) Qi, Y., Yang, Y., Yu, X., Wu, S., Wang, S., Yu, Q., Wang, C., **Liang, Y.**, Sun, H. 2025. Unveiling the Contribution of Hydrogen Radicals to Per- and Polyfluoroalkyl Substances (PFASs) Defluorination: Applicability and Degradation Mechanisms. Environmental Science and Technology. 59 (3), 1875-1886.

20) Ehsana, M., Rizab, M., Pervez, N., **Liang, Y.** 2025. Source identification and distribution of per- and polyfluoroalkyl substances (PFAS) in the freshwater environment of USA. International Journal of Environmental Science and Technology. 22 (3), 2021-2046.

21) Jiang, T., Pervez, N., Ilango, A., **Liang, Y.** 2025. Enhanced Removal and Destruction of Per- and Polyfluoroalkyl Substances (PFAS) Mixtures by Coupling Magnetic Modified Clay and Photoreductive Degradation. Journal of Water Process Engineering. 69, 106733.

22) Ilango, A., Zhang, W., **Liang, Y.** 2024. Uptake of per- and polyfluoroalkyl substances by Conservation Reserve Program's seed mix in biosolids-amended soil. Environmental Pollution, Volume 363, Part 2, 15 December 2024, 125235.

23) Zhang, W., **Liang, Y.**, 2025. Impact of Four Surfactants on the Uptake of Per- and Polyfluoroalkyl Substances (PFAS) by Red Fescue Grass. International Journal of Phytoremediation. 27, 13-22.

24) Bian, Y., Leininger, A., Zhang, W., **Liang, Y.,** Ren, Z.J. 2024. Co-valorization of food waste and CO_2 to produce volatile fatty acids using liter-scale tubular microbial electrosynthesis cells. ACS ES&T Engineering. 4 (9), 2243-2251.

25) Pervez, N., Jiang, T., Mahato, J., Ilango, A., Kumaran, Y., Zuo, Y., Zhang, W., Efstathiadis, H., Feldblyum, J., Yigit, M., **Liang, Y.** 2024. Surface modification of graphene oxide for fast removal of per-and poly-fluoroalkyl substances (PFAS) mixtures from river water. ACS ES&T Water. 4, 7, 2968–2980.

26) Pervez, N., Jiang, T., **Liang, Y.** 2024. Structure and mechanism of nanoengineered membranes toward per-and polyfluoroalkyl substances (PFAS) removal from water: A critical review. Journal of Water Process Engineering, 63, 105471.

27) Jiang, T., Pervez, N., Ilango, A., Ravi, Y., Zhang, W., Feldblyum, J., Yigit, M., Efstathiadis, H., **Liang, Y.** 2024. Magnetic Surfactant-Modified Clay for Enhanced Adsorption of Mixtures of Per- and Polyfluoroalkyl Substances (PFAS) in Snowmelt: Improving Practical Applicability and Efficiency. Journal of Hazardous Materials. 471, 134390.

28) Qi, Y., Yang, Y., Cui, S., Tang, X., Zhang, P., Wang, C., **Liang, Y.**, Sun, H., Ma, C., Xing, B. 2024. Novel Defluorination Pathways of Perfluoroether Compounds (GenX): α-Fe2O3 Nanoparticle Layer Retains Higher Concentrations of Effective Hydrated Electrons. Environmental Science and Technology. 58, 12, 5567–5577.

29) Ilango, A., Arathala, P., Musah, R., **Liang, Y.** 2024. Experimental and Density Functional Theory Investigation of Surface-Modified Biopolymer for Improved Adsorption of Mixtures of Per- and Polyfluoroalkyl Substances in Water. Water Research, 255, 121458.

30) Sun, S., Sui, X., Yu, H., Zheng, Y., Zhu, X., Wu, X., Li, Y., Lin, Q., Zhang, Y., Ye, W., **Liang, Y.** 2024. High tribocatalytic performance of FeOOH nanorods for degrading organic dyes and antibiotics. Small Methods. 8 (12), 2301784.

31) Nason, S., Thomas, S., Stanley, C., Silliboy, R., Blumenthal, M., Zhang, W., **Liang, Y.**, Jones, J., Zuverza-Mena, N., White, J., Haynes, C., Vasiliou, V., Berger, B. 2024. A Comprehensive Trial on PFAS Remediation: Hemp Phytoextraction and PFAS Degradation in Harvested Plants. Environmental Science: Advances. 3, 304-313.

32) Ilango, A., **Liang, Y.** 2023. Surface Modifications of Biopolymers for Removal of Per- and Polyfluoroalkyl Substances from Water: Current Research and Perspectives. Water Research. 249, 120927.

33) Ilango, A., Jiang, T., Zhang, W., Pervez, N., Feldblyum, J., Efstathiadis, H., **Liang. Y.** 2023. Enhanced adsorption of mixtures of per- and polyfluoroalkyl substances in water by chemically modified activated carbon. ACS ES&T Water. 3, 11, 3708–3715.

34) Zhang, W.L., **Liang, Y.** 2023. The Wide Presence of Fluorinated Compounds in Common Chemical Products and the Environment: A Review. Environmental Science and Pollution Research. 30 (50), 108393-108410.

35) Jiang, T., Pervez, N., **Liang. Y.** 2023. Effective Stabilization of Per- and Polyfluoroalkyl Substances (PFAS) Precursors in Wastewater Treatment by Surfactant-Modified Clay. Chemosphere. 341, 140081.

36) Pervez, M.N., Jahid, M.A., Mishu, M.R., Talukder, E., Bounerba, A., Jiang, T., **Liang, Y.**, Zhao, Y., Cai, Y., Naddo, V. 2023. Tuning the surface functionality of polyethylene glycol-modified graphene oxide/chitosan composite for efficient removal of dye. Scientific Reports. 13 (1), 13460.

37) Speer, D., Patel, T., Ho, B., Phillips, J., Zhu, T., Shangraw, J., Demirtas, M., **Liang, Y.**, Tutej, A. 2023. Enhanced, Continuous, Liquid-liquid Extraction and In-situ Separation of Volatile Fatty Acids from Fermentation Broth. Separation and Purification Technology. 124810.

38) Ilango, A., Jiang, T., Zhang, W-L., Feldblyum, J., Efstathiadis, H, **Liang, Y.** 2023. Surface-modified biopolymers for removing mixtures of per- and polyfluoroalkyl substances from water: Screening and removal mechanisms. Environmental Pollution, 331, 121865.

39) Jiang, T., Shi, Q., Wei, Z., Shah, K., Efstathiadis H., Meng, X., **Liang, Y.** 2023. Leaching of Valuable Metals from Cathode Active Materials in Spent Lithium-Ion Batteries by Levulinic Acid and Biological Approaches. Heliyon. 9 (5).

40) Ehsana, M., Riza, M., Pervez, M., Khyume, M., **Liang, Y.**, Naddeo, V. 2023. Environmental and health impacts of PFAS: Sources, distribution and sustainable management in North Carolina (USA). Science of the Total Environment. 878, 163123.

41) Zhang, W., Wellington, T**., **Liang, Y.** 2023. Effect of two sorbents on the distribution and transformation of N-ethyl perfluorooctane sulfonamido acetic acid (N-EtFOSAA) in soil-soybean systems. Environmental Pollution. 318, 120941.

42) Ravi, YK., Zhang, W., **Liang, Y.** 2023. Effect of Surfactant Assisted Ultrasonic Pretreatment on Production of Volatile Fatty Acids from Mixed Food Waste. Bioresource Technology. 368, 128340.

43) Jiang, T., Zhang, W., Ilango, A., Feldblyum, J., Wei, Z., Efstathiadis, H., Yigit, M., **Liang, Y.** 2023. Surfactant-Modified Clay for Adsorption of Mixtures of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous Solutions. ACS Advanced Engineering Materials. 1, 1, 394–407.

44) Zhang, W.L., Tran, N.**, **Liang, Y.** 2022. Uptake of per- and polyfluoroalkyl substances (PFAS) by soybean across two generations. Journal of Hazardous Materials Advances. 8, 100170.

45) Govarthanan, M., **Liang, Y.,** Kamala-Kannan, S., & Kim, W. 2022. Eco-friendly and sustainable green nano-technologies for the mitigation of emerging environmental pollutants. Chemosphere 287, 132234.

46) Jiang, T., Singh, S*., Dunn, K.A., and **Liang, Y.** 2022. Optimizing Leaching of Rare Earth Elements from Red Mud and Spent Fluorescent Lamp Phosphors Using Levulinic Acid. Sustainability. 14 (15), 9682.

47) Zhang, W.L., **Liang, Y.** 2022. Changing bioavailability of per- and polyfluoroalkyl substances (PFAS) to plant in biosolids amended soil through stabilization or mobilization. Environmental Pollution. 308, 119724.

48) Jiang, T., Zhang, W.L., **Liang, Y.** 2022. Uptake of Individual and Mixed Per- and Polyfluoroalkyl Substances (PFAS) by Soybean and Their Effects on Functional Genes Related to Nitrification, Denitrification, and Nitrogen Fixation. Science of the Total Environment. 838, 156640.

49) Zhang, W.L., Tao, J., **Liang, Y.** 2022. Stabilization of per- and polyfluoroalkyl substances (PFAS) in sewage sludge using different sorbents. Journal of Hazardous Materials Advances. 6, 100089.

50) Qi Y.W.*, Cao, H.M.*, Pan W.J.*, Wang, C.P., **Liang, Y.** 2022. The role of dissolved organic matters during the per- and polyfluorinated substances (PFAS) adsorption, degradation and plant uptake: A review. Journal of Hazardous Materials. 436, 129139.

51) Zhang, W.L., **Liang, Y.** 2022. Performance of different sorbents toward stabilizing per- and polyfluoroalkyl substances (PFAS) in soil. Environmental Advances. Volume 8, 100217.

52) Cao, H.M.*, Zhang, W.L., Wang C.P., **Liang, Y.** 2022. Photodegradation of F-53B in aqueous solutions through an UV/Iodide system. Chemosphere. 292, 133436.

53) Zhang, W.L., **Liang, Y.** 2022. Hydrothermal liquefaction of sewage sludge – effect of four reagents on relevant parameters related to biocrude and PFAS. Journal of Environmental Chemical Engineering. 10 (1), 107092.

54) Zhang, W.L., Zhang, Q., **Liang, Y.** 2022. Ineffectiveness of ultrasound at low frequency for treating per- and polyfluoroalkyl substances in sewage sludge. Chemosphere. 286, 131748.

55) Jiang, T., Geisler, M., Zhang, W., **Liang. Y.** 2021. Fluoroalkylether Compounds Affect Microbial Community Structures and Abundance of Nitrogen Cycle-Related Genes in Soil-Microbe-Plant Systems. Ecotoxicology and Environmental Safety. 228, 113033.

56) **Liang, Y.** 2021. A Critical Review of Challenges Faced by Converting Food Waste to Bioenergy Through Anaerobic Digestion and Hydrothermal Liquefaction. Waste and Biomass Valorization. 1-16.

57) Zhang, W.L., **Liang, Y.** 2021. Effects of Hydrothermal Treatments on PFAS in sewage sludge. Environmental Pollution. 285, 117276.

58) Zhang, W.L, **Liang, Y.** 2021. Interactions between *Lemna minor* (common duckweed) and PFAS intermediates: Perfluorooctanesulfonamide (PFOSA) and 6: 2 fluorotelomer sulfonate (6: 2 FTSA). Chemosphere, 276, 130165.

59) Zhang W.L., Cao, H.M.*, **Liang, Y.** 2021. Degradation by Hydrothermal Liquefaction of Fluoroalkylether Compounds Accumulated in Cattails (*Typha latifolia*). Journal of Environmental Chemical Engineering. 9 (4), 105363.

60) Sharifan, H., Bagheri, M., Wang, D., Burken, J.G., Higgins, C.P., **Liang Y.**, Liu, J., Schaefer, C.E., Blotevogel, J. 2021. Fate and transport of per- and polyfluoroalkyl substances (PFASs) in the vadose zone. Science of the Total Environment. 771, 145427.

61) Zhang W.L., Cao, H.M.*, **Liang, Y.** 2021. Plant Uptake and Soil Fractionation of Five Ether-PFAS in Plant-Soil Systems. Science of the Total Environment. 771, 144805.

62) Zhang, D.Q., Zhang, W.L., **Liang Y.** 2021. Sorption of perfluoroalkylated substances (PFASs) onto granular activated carbon and biochar. Environmental Technology. 42 (12), 1798-1809.

63) Zhang, W.L., Cao. H.M.*, **Liang, Y.** 2021. Optimization of thermal pretreatment of food waste for maximal solubilization. Journal of Environmental Engineering. 147 (4), 04021010.

64) Campobasso, M.**, Peiravi, M.*, Xia, C., **Liang, Y.**, Liu, J. 2020. Effects of Combined Ag and ZnO Nanoparticles on Microbial Communities from Crab Orchard Creek, Illinois, USA. Journal of Environmental Engineering 146 (7), 04020067.

65) Lakhssassi, N., Baharlouei, A.*, Meksem, J., Hamilton-Brehm, S., Lightfoot, D., Meksem, K., **Liang, Y.** 2020. EMS-Induced Mutagenesis of *Clostridium carboxidivorans* for Increased Atmospheric CO_2 Reduction Efficiency and Solvent Production. Microorganisms, 8, 8: 1239.

66) Zhang D.Q., Zhang W.L., **Liang, Y.** 2020. Bacterial community in a freshwater pond responding to the presence of perfluorooctanoic acid (PFOA). Environmental Technology. 41 (27), 3646-3656.

67) Cao, H.*, Zhang, W.L., **Liang, Y.** 2020. Sonochemical Degradation of Poly- and Perfluoroalkyl Substances - A review. Ultrasonics – Sonochemistry. 69, 105245.

68) Zhang, W.L., Cao, H.*, Subramanya, S.M.*, Savage, P., **Liang, Y.** 2020. Destruction of Perfluoroalkyl Acids Accumulated in Typha latifolia through Hydrothermal Liquefaction. ACS Sustainable Chemistry & Engineering. 8 (25), 9257-9262.

69) Zhang, W.L; **Liang, Y.** 2020. Removal of eight perfluoroalkyl acids from aqueous solutions by aeration and duckweed. Science of the Total Environment. 724, 138357.

70) Zhang, W.L., Efstathiadis, H., Li, L., **Liang, Y.** 2020. Environmental factors affecting degradation of perfluorooctanoic acid (PFOA) by In_2O_3 nanoparticles. Journal of Environmental Sciences. 93, 48-56.

71) Zhang, D.Q., Wang, M., He, Q., Niu, X., **Liang Y.** 2020. Distribution of perfluoroalkyl substances (PFASs) in aquatic plant-based systems: from soil adsorption and plant uptake to effects on microbial community. Environmental Pollution, 113575.

72) Zhang, DQ, Zhang WL, **Liang Y-N.** 2019. Distribution of eight perfluoroalkyl acids in plant-soil-water systems and their effect on the soil microbial community. Science of the Total Environment. 697: 134-146.

73) Zhang, DQ, Zhang WL, **Liang Y-N.** 2019. Adsorption of perfluoroalkyl and polyfluoroalkyl substances (PFASs) from aqueous solution - A review. Science of The Total Environment. 694, 133606.

74) Zhang, W.L., Zhang, D-Q., Zagorevski DV., **Liang, Y.-N**., 2019. Exposure of *Juncus effusus* to seven perfluoroalkyl acids: uptake, accumulation and phytotoxicity. Chemosphere. 230, 567-577.

75) Londono N*., Donovan AR*., Shi H., Geisler M., **Liang Y.-N**. 2019. Effects of environmentally relevant concentrations of mixtures of TiO_2, ZnO and Ag ENPs on a river bacterial community. Chemosphere. 230, 567-577.

76) El Asli, A., Mesbahi, NE., Oubakalla, R., Fels, LE., Hafidi, M., **Liang, Y.-N**. 2019. Domestic Wastewater Treatment and Lipid Accumulation for Biodiesel Production by an Isolated Heterotrophic Microalgae from an Arid Climate Zone. The Asia Journal of Applied Microbiology. 6(1): 1-9.

77) Zhang J*., Yip, C**.; Xia, C*., **Liang, Y.-N**. 2019. Evaluation of methane release from coals from the San Juan basin and Powder River basin. Fuel. 244, 388-394.

78) Zhang, W.L., Zhang, D-Q., **Liang, Y.-N**., 2019. Nanotechnology in remediation of water contaminated by poly- and perfluoroalkyl substances: a review. Environmental Pollution. 247, 266-276.

79) Park S., **Liang, Y.-N**., 2019. Bioleaching of trace elements and rare earth elements from coal fly ash. International Journal of Coal Science & Technology. 6 (1), 74-83.

80) Zhang, J*., Anderson, K*, Britt D., and **Liang, Y.-N**. 2018. Sustaining biogenic methane release from Illinois coal in a fermentor for one year. Fuel, 227: 27–34.

81) Zhang, J*., Bi, Z., **Liang, Y.-N**. 2018. Development of a nutrient recipe for enhancing methane release from coal in the Illinois basin. International Journal of Coal Geology. 187: 11-19.

82) Bi, Z., Zhang, J*., Zhu. Z*., **Liang**, **Y.-N**., Wiltowski T. 2018. Generating biocrude from partially defatted Cryptococcus curvatus yeast residues through catalytic hydrothermal liquefaction. Applied Energy. 209, 435-444.

83) Giang, H*., Zhang, J*., Zhu, Z*., Suni, I., **Liang**, **Y.-N**. 2018. Single chamber microbial electrochemical cells for CH_4 production from CO_2 utilizing a microbial consortium. International Journal of Energy Research. 42:1308–1315.

84) Xia, C., Kumar, A., Chen, X., Tucker, M., **Liang**, **Y.-N**. 2018. Conversion of corn stover hydrolysates to value-added products: comparison between *Clostridium carboxidivorans* P7 and two microbial communities. Biomass Conversion and Biorefinery. 8(1), 169-178.

85) Bi, Z., Zhang, J*., Park, S., Harpalani, S., **Liang**, **Y.-N**. 2017. A formation water-based nutrient recipe for maximizing methane release from coal in the San Juan Basin. Fuel. 209: 498-508.

86) Zhang, R*., Liu, S-M., Bahadur, J., Elsworth, D., Wang, Y., Hu, G., **Liang**, **Y.-N**. 2017. Changes in pore structure of coal caused by coal-to-gas bioconversion. Scientific Reports. 7:3840-3853.

87) Londono, N*., Donovan, A*., Shi, H., Geisler M., **Liang**, **Y.-N. 2017.** Impact of TiO_2 and ZnO nanoparticles on an aquatic microbial community: effect at environmentally relevant concentrations. Nanotoxicology. 11:1140-1156.

88) Zhang, J*., **Liang**, **Y.-N**. 2017. Evaluating approaches for sustaining methane production from coal through biogasification. Fuel. 202: 233–240.

89) Abdul, S*., Zhang, J*., Chen, D., Chen, X., Tucker, M., **Liang**, **Y.-N**. 2017. Sweet sorghum bagasse and corn stover serving as substrates for producing sophorolipids. Journal of Industrial Microbiology & Biotechnology. 44: 353–362.

90) Bi, Z., Zhang*, J., Peterson, E**., Zhu, Z*., Xia, C., **Liang**, **Y.-N**., Wiltowski, T. 2017. Biocrude from pretreated sorghum bagasse through catalytic hydrothermal liquefaction. Fuel. 188:112-120.

91) Xia C., Wiltowski, T., Harpalani, S., **Liang**, **Y.-N**. 2016. Coal depolymerization using permanganate under optimal conditions. International Journal of Coal Geology. 168: 214–221.

92) Zhang, J*., **Liang, Y.-N.** Harpalani, S. 2016. Optimization of methane production from bituminous coal through biogasification. Applied Energy, 183:31–42.

93) Qin Y.H, Zhao, Z.B., Wiltowski, T., Aloqaili, M., **Liang, Y.-N.** 2016. Investigation of co-gasification reactivity of torrefied Jatropha seed cake with Illinois #6 coal char. BioResources. 11: 7624-7636.

94) Pandey R*; Harpalani, S., Feng, R*., Zhang, J*., **Liang, Y.-N.** 2016. Changes in gas storage and transport properties of coal as a result of enhanced microbial methane generation. Fuel, 179. 114–123.

95) Zhang, J.*, Park, S., **Liang, Y.-N**., Harpalani, S. 2016. Finding cost-effective nutrient solutions and evaluating environmental conditions for biogasifying bituminous coal to methane ex situ. Applied Energy. 165:559–568.

96) Park, S., **Liang, Y.-N**. 2016. Biogenic methane production from coal: A review on recent research and development on microbially enhanced coalbed methane (MECBM). Fuel. 166. 258–267.

97) Uagiliyage, A.*, Choudhary, R, **Liang**, **Y-N**., Haddock, J., Watson, D. 2015. Laboratory scale optimization of alkali pretreatment for improving enzymatic hydrolysis of sweet sorghum bagasse. Industrial Crops and Products. 74: 977–986.

98) Zhang, J.*, **Liang, Y.-N**., Yau, P.M., Pandey, R.*, Harpalani, S. 2015. A metaproteomic approach for identifying proteins in anaerobic bioreactors converting coal to methane. International Journal of Coal Geology. 146, 91–103.

99) Zhang, J.*, **Liang, Y.-N**, Pandey, R.*, Harpalani, S. 2015. Characterizing a microbial community dedicated for converting coal to methane *in situ* and *ex situ*. International Journal of Coal Geology. 146, 145–154.

100) Samad, A.*, Zhang, J.*, Chen, D., **Liang, Y-N.** 2015. Sophorolipid production from biomass hydrolysates. Applied Biochemistry and Biotechnology. 175:2246–2257.

101) Cui, Y.*, **Liang, Y.-N.** 2015. Sweet sorghum syrup as a renewable material for microbial lipid production. Biochemical Engineering Journal, 93:229–234.

102) **Liang Y.-N.**, Jarosz, K.**, Wardlow, A.T.**, Zhang, J.*, Cui, Y.* 2014. Lipid production by *Cryptococcus curvatus* on hydrolysates derived from corn fiber and sweet sorghum bagasse following dilute acid pretreatment. Applied Biochemistry and Biotechnology. 173(8):2086-98.

103) **Liang Y.-N.,** Perez, I.**, Goetzelmann, K.**, Trupia, S. 2014. Microbial lipid production from pretreated and hydrolyzed corn fiber. Biotechnology Progress. 30: 945–951.

104) Cui, Y.*, **Liang Y.-N.** 2014. Direct transesterification of wet *Cryptococcus curvatus* cell pellet to biodiesel through use of microwave irradiation. Applied Energy, 119, 438–444.

105) Yesuf, J.*, **Liang Y.-N.** 2014. Optimization of sugar release from sweet sorghum bagasse following solvation of cellulose and enzymatic hydrolysis using response surface methodology. Biotechnology Progress. 30, 367–375.

106) **Liang, Y.-N.** 2013. Producing liquid transportation fuels from heterotrophic microalgae. Applied Energy. 104: 860-868.

107) Cui, Y.*, Blackburn, J., **Liang, Y.-N.** 2012. Fermentation optimization for the production of lipid by *Cryptococcus curvatus*: use of response surface methodology. Biomass and Bioenergy. 47: 410-417.

108) **Liang, Y.-N.,** Sarkany N. 2012. Proteins expressed differently between glucose and glycerol for *Schizochytrium limacinum* SR21. Current Biotechnology. 1, 227-233.

109) Choudhary, R., Umagiliyage, AL.*, **Liang, Y**.-N., Siddaramu, T.*, Haddock, J., Markevicius, G. 2012. Microwave pretreatment for enzymatic saccharification of sweet sorghum bagasse. Biomass and Bioenergy. 39, 218-226.

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112) **Liang, Y**.-N. 2012. Sorghum: Genetic Improvement for Biofuel. In: Dobránszki J (Ed) Sorghum. The European Journal of Plant Science and Biotechnology 6 (Special Issue 1), 1-9.

113) **Liang, Y.-N.,** Cui, Y.*, Trushenski, J., Blackburn, J. 2010. Converting crude glycerol derived from yellow grease to lipids through yeast fermentation. Bioresource Technology 101, 7581-7586.

114) **Liang, Y.-N.,** Sarkany, N.*, Cui, Y.*, Blackburn, J. 2010. Batch stage study of lipid production from crude glycerol derived from yellow grease or animal fats through microalgal fermentation. Bioresource Technology. 101(17):6745-50.

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121) Blackburn, J., **Liang, Y.-N**., Das, D. 2009. Biohydrogen from complex carbohydrate wastes as feedstocks- cellulose degraders from a unique series enrichment, International Journal of Hydrogen Energy, 34, 7428-7434.

122) **Liang, Y.-N**., Sorensen, D.L., McLean, J.E., Sims, R.C. 2008. Pyrene fate affected by humic acid amendment in soil slurry systems. Journal of Biological Engineering. 2:11.

123) **Liang, Y.-N**., Britt, D.W., McLean, J.E., Sorensen, DL., Sims, R.C. 2007. Humic acid effect on pyrene degradation: finding of an optimal range for pyrene solubility and mineralization enhancement. Applied Microbiology and Biotechnology 74 (6): 1368-1375.

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Mycobacterium isolates: their association with plant roots. Applied Microbiology and Biotechnology. 75 (3): 655-663.

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7.3. Peer-reviewed Conference Proceedings

1) Aswin Kumar Ilango, Weilan Zhang, **Yanna Liang**. Accumulation of complex mixtures of PFAS by Conservation Reserve Program's seed mix in biosolids-amended soil. ACS, August 18-21. Washington DC.

2) Tao Jiang, Md. Nahid Pervez, **Yanna Liang**. Degradation of PFAS Mixtures Through a Treatment Train of Capture and Photoreduction. AWMA, May 13-15, 2025. Minneapolis, MN.

3) **Yanna Liang**, Tao Jiang, Aswin Kumar Ilango, Nahid Pervez, Weilan Zhang. Innovative materials for remediation of environments contaminated by PFAS. Baltic assembly of the Advanced Materials Congress from 29th - 31st October, 2024.

4) Tao Jiang, Md. Nahid Pervez, **Yanna Liang**. Graphene-Based Sorbents for PFAS Removal from Aqueous Media. Northeast Conference on the Science of PFAS: Public Health & the Environment. April 2 – 4, 2024. Marlborough, MA.

5) Aswin Kumar Ilango, **Yanna Liang**. Engineered biopolymers for removing mixtures of per- and polyfluoroalkyl substances from water. Northeast Conference on the Science of PFAS: Public Health & the Environment. April 2 – 4, 2024. Marlborough, MA.

6) Sara L. Nason, Chelli Stanley, Richard Silliboy, Maggie Blumenthal, Weilan Zhang, **Yanna Liang**, Sara Thomas. Hemp phytoremediation of PFAS and degradation of PFAS in harvested hemp: A comprehensive PFAS remediation trial at the former Loring Airforce Base. ACS 08/15/2023, Chicago, IL.

7) Tao Jiang, **Yanna Liang**. Modified Clay for Adsorption of Multiple Per- and Polyfluoroalkyl Substances (PFAS). AEESP Research and Education Conference, June 20-23, 2023, Boston, MA.

8) **Yanna Liang,** Meltem Urgun Demirtas, Troy Robert Hawkins, Hui Xu, Zhiyong Jason Ren, Anish Tuteja, Alex Rosenthal. Novel and Viable Technologies for Converting Wet Organic Waste Streams to Higher Value Products. DOE BETO Project Peer Review Meeting. Apr. 3-7, 2023. Denver, CO.

9) Weilan Zhang, **Yanna Liang**. Stabilization of PFAS in soil-plants systems using carbon-based sorbents. AEESP Research and Education Conference, June 20-23, 2023, Boston, MA.

10) Weilan Zhang, **Yanna Liang**. Performance of different sorbents toward stabilizing PFAS in sewage sludge. ACS, Aug. 22-24th, 2022, Chicago, IL.

11) Tao Jiang, Weilan Zhang, **Yanna Liang**. Translocation of PFAS from Soil to Soybean and the Related Effect on Nitrification, Denitrification, and Nitrogen Fixation. A&WMA's 115th Annual Conference & Exhibition. Jun. 27-Jul. 1, 2022, San Francisco, CA.

12) Tao Jiang, Weilan Zhang, **Yanna Liang.** Impact of Fluoroalkylether Compounds on Soil Microbial Community Structures and Abundance of Nitrogen Cycling Genes. A&WMA's 115th Annual Conference & Exhibition. Jun. 27-Jul. 1, 2022, San Francisco, CA.

13) **Yanna Liang,** Meltem Urgun Demirtas, Troy Robert Hawkins, Hui Xu, Zhiyong Jason Ren, Anish Tuteja, Alex Rosenthal. 2022. An Integrated Process for Converting Food Waste to Value-added Products. 44th Symposium on Biomaterials, Fuels and Chemicals. May 2-4th. New Orleans, LA.

14) Weilan Zhang and **Yanna Liang**. 2022. Phytoremediation of per- and polyfluoroalkyl substances (PFAS) followed by hydrothermal liquefaction. Institute of Biological Engineering. Apr. 7-9. Athens, GA.

15) Weilan Zhang, Tao Jiang and **Yanna Liang.** 2022. Distribution of per- and polyfluoroalkyl substances (PFAS) in a soil-microbe-soybean system and their effects on functional genes involved in nitrogen fixation, nitrification and denitrification. Institute of Biological Engineering. Apr. 7-9. Athens, GA.

16) **Yanna Liang.** 2022. Revisiting Sludge Pretreatment: Can Thermal Hydrolysis and Ultrain Destruct PFAS? NEWMOA PFAS Science Conference. Apr. 5-6. Marlborough, MA.

17) **Yanna Liang,** Meltem Urgun Demirtas, Troy Robert Hawkins, Hui Xu, Zhiyong Jason Ren, Anish Tuteja, Alex Rosenthal. 2023. Novel and Viable Technologies for Converting Wet Organic Waste Streams to Higher Value Products. DOE BETO Project Peer Review Meeting. March 9th, online.

18) **Yanna Liang.** 2019. Degradation of perfluorooctanoic acid (PFOA) by In_2O_3 nanoparticles affected by environmental factors. The 16th International Symposium on Persistent Toxic Substances. Oct. 25-27, Jersey City, NJ.

19) **Yanna Liang.** 2019. A Green and Practical Approach for Removing PFAS from Contaminated Environments. NJWEA, Atlantic City, NJ, May 6th.

20) **Yanna Liang,** Nathalia Londono, Ariel R. Donovan, Honglan Shi, Matthew Geisler. 2019. Impact of engineered nanoparticles on aquatic microbial communities. ACS, Orlando, FL, March 31 - April 4.

21) **Yanna Liang,** Weilan Zhang, Dongqing Zhang. 2019. Holistic approaches designed for removing PFAS from contaminated environment. ACS, Orlando, FL, March 31 - April 4.

22) **Yanna Liang**, Zheting Bi, Ji Zhang, Zeying Zhu, Tomasz Wiltowski. 2017. Producing biocrude from renewable feedstocks through hydrothermal liquefaction. AIChE Annual Meeting, Minneapolis MN, October 30 – November 3.

23) **Yanna Liang**, Hannah Jiang, Ji Zhang, Ian Suni. 2017. CO_2 Conversion to Fuels and Chemicals through Microbial Electrolysis Cells. AIChE Annual Meeting, Minneapolis MN, October 30 – November 3.

24) **Yanna Liang**. 2017. Bioleaching of Rare Earth Elements from coal-based products. Pittsburgh Coal Conference. Sep. 4-7. Pittsburgh.

25) **Yanna Liang**. 2016. Converting bituminous coal to methane: approaches to maximizing methane yield ex situ and in situ. The first CBM meeting at Jincheng, Shanxi, China. June 20-22.

26) Ji Zhang, **Yanna Liang**, Satya Harpalani. 2016. Identifying optimal parameters for converting bituminous coal to methane through biogasification. The fourth E^2E Energy Conference. Beijing, China. July 6-8.

27) Zheting Bi, Ji Zhang, Emily Peterson, Zeying Zhu, Chunjie Xia, **Yanna Liang**. 2016. Catalytic hydrothermal liquefaction for producing biocrude from pretreated sorghum bagasse. The fourth E^2E Energy Conference. Beijing, China. July 6-8.

28) Nathalia Londono, **Yanna Liang**, Ariel Donovan, Honglan Shi. 2016. Elucidating impact of nanosized TiO_2 and ZnO on microbial ecology. 21st annual conference of Institute of Biological Engineering, Greenville, SC, April 7-9.

29) Chunjie Xia, Aditi Kumar, **Yanna Liang**, Xiaowen Chen, Melvin Tucker. 2016. Anaerobic fermentation for producing biofuels and bioproducts from corn stover. 21st annual conference of Institute of Biological Engineering, Greenville, SC, April 7-9.

30) Ji Zhang, **Yanna Liang**, Satya Harpalani. 2016. Optimizing microbial coal conversion to methane for ex situ applications. 21st annual conference of Institute of Biological Engineering, Greenville, SC, April 7-9.

31) Zheting Bi, **Yanna Liang**, Tomasz Wiltowski. 2016. An integrated platform for producing biofuels from sweet sorghum bagasse. 21st annual conference of Institute of Biological Engineering, Greenville, SC, April 7-9.

32) Satya Harpalani*, Rohit Pandey, **Yanna Liang** and Ji Zhang. 2016. Bioconversion of Coal Waste to Natural Gas: Conversion of a Liability to an Asset. 3rd International Conference on Chemical, Biological and Environmental Sciences, December 31, 2015 – January 1, 2016, Bangkok, Thailand.

33) Stephen Park. 2015. Maximizing methane yield from bituminous coal through biostimulation under optimal conditions. 2015 Mid-American Environmental Engineering Conference. Columbia, MO. October 24.

34) **Yanna Liang***, Ji Zhang, Stephen Park, Satya Harpalani. 2015. Microbially enhanced coalbed methane (MECBM): identifying optimal conditions for maximizing methane yield. BIT's 4th Annual International Symposium of Clean Coal Technology. Xian, China. September 24-26.

35) **Yanna Liang***, Ji Zhang, Stephen Park, Satya Harpalani. 2015. Biostimulation for biogasification for converting coal to methane. International Pittsburgh Coal Conference, Pittsburgh, PA, USA. October 5 - 8.

36) **Yanna Liang**, Ji Zhang, Satya Harpalani. Peter Yau, Rohit Pandy. Bioconversion of coal to methane – study of microbial community, conversion pathway and property of the residual coal. The 40th International Technical Conference on Clean Coal & Fuel Systems. May 30-June 4th. 2015. Clearwater, FL.

37) Abdul Samad, **Yanna Liang**. Investigating Sophorolipid Production From Hydrolysates Derived From Different Lignocellulosic Materials. IBE 20th Annual Conference, March 6-8th, 2015, St. Louis, MO.

38) Ji Zhang, **Yanna Liang**, Robit Pandey, Satya Harpalani. Using selective bio-catalytic activities as a new route for conversion of waste coal to methane. IBE 20th Annual Conference, March 6-8th, 2015, St. Louis, MO.

39) **Yanna Liang**, Abdul Samad, Ji Zhang, Da Chen, Xiaowen Chen, Melvin Tucker. Producing advanced biofuels and high value bioproducts from sophorolipids secreted by a yeast strain grown on lignocellulosic sugars. DOE Biomass 2014. July 29 - July 30. Washington DC.

40) Kim Jarosz, Yi Cui, Ashley T. Wardlow, **Yanna Liang**. Microbial oil produced from sweet sorghum bagasse. IBE 19th Annual Conference, March 6-8, 2014, Lexington, KY.

41) Abdul Samad, **Yanna Liang**, Sophorolipid Production from Renewable Lignocellulosic Biomass. IBE 19th Annual Conference, March 6-8, 2014, Lexington, KY.

42) Ji Zhang, **Yanna Liang**. New route to convert Illinois coal waste to clean energy fuel. IBE 19th Annual Conference, March 6-8, 2014, Lexington, KY.

43) Robert Heusner, Yi Cui, **Yanna Liang**, Weilan Zhang, Samuel Ma. Effects of engineered nanoparticles on a microalgal strain *Crypthecodinium cohnii*. IBE 19th Annual Conference, March 6-8, 2014. Lexington, KY.

44) Yi Cui, **Yanna Liang**. 2013. Biodiesel production through microwave assisted transesterification of microbial cells. American Institute of Chemical Engineers Annual Conference, San Francisco, CA, Nov. 3-8th, 2013

45) **Yanna Liang**, Ivan Perez, Kyle Goetzelmann, Yi Cui, Sabrina Trupia. 2013. Corn fiber as a renewable resource for producing microbial lipids. 18th annual conference of Institute of Biological Engineering, Cary, NC, March 7-9.

46) Yi Cui, **Yanna Liang**. 2012. Microwave assisted lipid extraction and direct transesterifcation of oleaginous yeast cells to biodiesel. 17th annual conference of Institute of Biological Engineering, Indianapolis, IN, March 1-3.

47) Jemil Yesuf, **Yanna Liang**. 2012. Optimization of COSLIF pretreatment variables of sweet sorghum bagasse using a response surface method. 17th annual conference of Institute of Biological Engineering, Indianapolis, IN, March 1-3.

48) **Yanna Liang.** 2011. Sweet sorghum for biofuel production. Institute of Biological Engineering. Atlanta, GA, March 3-5.

49) Yi Cui, **Yanna Liang**, James Blackburn. 2011. Biofuel production from industrial waste crude glycerol through yeast fermentation. Institute of Biological Engineering. Atlanta, GA, March 3-5.

50) Tianyu Tang, **Yanna Liang**, Matt McCarroll. 2011. Fluorescent measurements of neutral lipids in yeast cells by using nile red. Institute of Biological Engineering. Atlanta, GA, March 3-5.

51) Yi Cui, James Blackburn, **Yanna Liang**. 2010. Identifying the optimal parameters for yeast fermentation on crude glycerol for lipid production. AIChE annual meeting, Salt Lake City, UT, November 7-12.

52) **Yanna Liang**, 2010. Biofuel production from various feedstocks through microalgal fermentation. International Bioenergy Day (IBED), Rockford, IL. Sep. 26-29.

53) **Yanna Liang,** Nick Sarkany, Yi Cui. 2010. Omega-3 fatty acid production from crude glycerol through microalgal fermentation. 32nd Symposium on Biotechnology for Fuels and Chemicals, Clearwater, FL, Apr. 19-22.

54) **Yanna Liang**, Yi Cui. 2010. Hydrocarbon fuel production from microbial oils. 32nd Symposium on Biotechnology for Fuels and Chemicals, Clearwater, FL, Apr. 19-22.

55) **Yanna Liang,** Jemil Yesuf. 2010. Thermostable enzymes from cellulolytic bacteria toward cellulose degradation. 32nd Symposium on Biotechnology for Fuels and Chemicals, Clearwater, FL, Apr. 19-22.

56) Ruplal Choudhary, Arosha Umagiliyage, **Yanna Liang**, John Haddock, Gediminas Markevicius, Vivak Malhotra. Optimization of microwave assisted lime pretreatment of sweet sorghum bagasse for enzymatic saccharification. 32nd Symposium on Biotechnology for Fuels and Chemicals, Clearwater, FL, Apr. 19-22.

57) Xuegang Jia, Luke Tolley, **Yanna Liang** 2009. Bioassay Guided Fractionation for the Isolation of Active Proteins from Complex Mixtures. 36th ACS Northeast Regional Meeting, October 7-9, Hartford, CT.

58) **Yanna Liang**, Jemil Yesuf, Zisong Feng. 2009. Cellulose degradation: two potential novel cellulolytic bacteria able to produce thermostable cellulases. 31st Symposium on Biotechnology for Fuels and Chemicals. May 3-6, San Francisco.

59) Blackburn J. W., **Liang, Y.-N**., Das, D., 2008. Biohydrogen from Wastes. International workshop on biohydrogen production technology, Feb. 7-9, India.

60) Miller, C.D., Zhang C., **Liang, Y.-N**., Child R., Sims, R.C., and Anderson, A.J. (2007). Biosensing of Mycobacteria with the potential to degrade polycyclic aromatic hydrocarbons. Environmental Sensing Symposium, October 25-26th, Boise, ID.

61) Sorensen, D.L., McLean, J.E., **Liang, Y.-N**., Norton, J.M., Dupont, R. (2007). Bacteria in iron reducer enrichments from TCE contaminated aquifer material at Hill Air Force Base, Environmental and Subsurface Science Symposium, July 25-27th, Logan, UT.

62) Anderson, A., Miller, C., Liang, Y., Sims R.C. (2007). Mycobacteria and Soil Remediation at Hazardous Waste Sties. Inland Northwest Research Alliance (INRA) Annual Symposium. July 26, Logan, UT.

63) Miller, C.D., Zhang, C., **Liang, Y.-N**., Pettee, B., Sims, R.C., and Anderson, A.J. (2007). Mycobacterium: Proteomics and genetics for bioremediation, Environmental and Subsurface Science Symposium, July 25-27th, Logan, UT.

64) Sims, K., Miller, C., Anderson, A., Sims, R.C, Liang, Y., Neff, J. (2006). Environmental Mycobacteria Biomedical Research and Applications. Inland Northwest Research Alliance (INRA), Montana State Univ.

65) **Yanna Liang** (2006). Can humic acid act as a flushing agent and biostimulant? AWRA Utah section 2006 34th annual conference "meeting Utah's future water needs", May 8-9, Salt Lake City, UT.

66) **Yanna Liang** (2005). Biodegradation of pyrene in soil microcosms: identification of a novel intermediate. Proceedings of EWRI World Water and Environmental Resources Congress, May 15-19, Anchorage, AL.

67) Darwin Sorensen, Jing Zhou, Jeanette Norton, Joan McLean, Ryan Dupont, **Yanna Liang**. (2007). Rhodoferax-Like Bacteria in Biostimulated Solids from TCE Contaminated Aquifers. American Society of Microbiology General Meeting, May 21-25, Toronto, Canada.

68) Darwin Sorensen, Jeanette Norton, Ryan Dupont, **Yanna Liang**, Joan McLean. (2007). TCE Contaminated Aquifer Bacteria that Reduce Fe(III) from Goethite, Poorly Crystalline Iron Oxide and/or Fe(III)NTA. American Society of Microbiology General Meeting, May 21-25, Toronto, Canada.

7.4. Non peer-reviewed oral or poster presentations

69) Jiang, T., **Liang, Y**. Rational Design of Cay-based Materials for Removing PFAS From Water - Evaluating Performance, Regeneration and Reuse. Environmental Health Solutions, NYS Center of Excellence, Syracuse, May 20-21, 2025.

70) Jiang, T., **Liang, Y**. Green, low cost and super sorptive sorbents for PFAS removal and stabilization. Department of Environmental and Sustainable Engineering, University at Albany, Albany, NY, June 4, 2025. NSF REU research presentation.

71) Jiang, T., **Liang, Y**. Rational design of clay-based materials for removing PFAS from water: evaluating performance, regeneration and reuse. NYS Center of Excellence in Healthy Water

Solutions' 3rd Annual Meeting, Syracuse, NY, May 20-22, 2025. Poster presentation and lightning talk.

72) Weilan Zhang, **Yanna Liang**. Impact of Four Different Surfactants on the Uptake of Per- and Polyfluoroalkyl Substances (PFAS) by Red Fescue. Northeast Conference on the Science of PFAS: Public Health & the Environment. April 2 – 4, 2024. Marlborough, MA.

73) Tao Jiang, Md. Nahid Pervez, **Yanna Liang**. Magnetic Modified Clay for Enhanced Adsorption of Multiple Per- and Polyfluoroalkyl Substances (PFAS) in Snowmelt. Northeast Conference on the Science of PFAS: Public Health & the Environment. April 2 – 4, 2024. Marlborough, MA.

74) Tao Jiang, Weilan Zhang, Aswin Kumar Ilango, Jeremy I. Feldblyum, Zheng Wei, Haralabos Efstathiadis, Mehmet V. Yigit, **Yanna Liang**. Innovative green and sustainable sorbents for removing or stabilizing PFAS in different environmental matrices. 2022 SERDP & ESTCP and OE-Innovation Symposium. Nov. 29-Dec. 2, 2022.

75) **Yanna Liang**, Weilan Zhang, Tao Jiang. Impact of PFAS to Soybean with Respect to Uptake, Nitrification, Denitrification and Nitrogen Fixation. NEWMOA PFAS Science Conference. Apr. 5-6. 2022, Marlborough, MA.

76) **Yanna Liang**, Ji Zhang, Rohit Pandey, Satya Harpalani. 2017. Optimized microbial conversion of bituminous coal to methane for in situ and ex situ applications. Pittsburgh, PA. March 21-23.

77) **Yanna Liang***, Ji Zhang, Stephen Park, Satya Harpalani. 2015. Coal biogasification: identifying ways to maximizing methane yield. Gasification Systems and Coal & Coal-Biomass to Liquids (C&CBTL) Workshop, Lakeview Conference Center, Morgantown, WV. August 10-11.

78) **Yanna Liang**. 2015. From Coal to Methane, what happens in the Black Box? Coal Research Center Board meeting. Jan. 23rd.

79) Ji Zhang, **Yanna Liang**, Rohit Pandey, Satya Harpalani. 2014. Converting Illinois coal waste to methane through biological processes. MidAmerican Environmental Engineering Conference. Nov. 15th, Rolla, MO.

80) **Yanna Liang**. 2014. Converting CO_2 to Valuable Products through Biochemical Processes. Coal Research Center Board meeting. Jan. 22nd.

81) Abdul Samad, **Yanna Liang**. 2014. Producing biosurfactant from hydrolysates developed from sweet sorghum bagasse. MidAmerican Environmental Engineering Conference. Nov. 15th, Rolla, MO.

82) **Yanna Liang**. 2013. A lipid platform for producing liquid transportation biofuels. Coal Research Center Board meeting. Jan. 23rd.

83) Ruby Roknic, Yi Cui, **Yanna Liang**. 2012. Sweet Sorghum Syrup for Biofuel Production through Yeast Fermentation. Undergraduate Research Forum. SIUC. April 16.

84) Ivan Perez, **Yanna Liang**. 2012. Optimal condition for releasing sugars from corn fiber through lime pretreatment. Undergraduate Research Forum. SIUC. April 16.

85) Ruby Roknic, **Yanna Liang**. 2011. Yeast Fermentation of soybean meal to produce ethanol. SIUC Research Rookies Poster Competition, April 11. *Honorable mention*.

86) Yi Cui, **Yanna Liang**. 2010. Identifying the optimal parameters for yeast fermentation on crude glycerol for lipid production. AIChE Annual Meeting, November 10-12.

87) Arosha H Loku Umagiliyage, Ruplal Choudhary, **Yanna Liang**, Thara Siddaramu, John Haddock. 2010. Optimization of lime pretreatment of sweet sorghum bagasse for enzymatic saccharification. ASABE Annual International Meeting, Pittsburgh, Pennsylvania, June 20-23.

88) Tianyu Tang, Matt McCarroll, **Yanna Liang**, 2010. Rapid and quantitative measurement of neutral lipids in yeast cells using Nile red and triglyceride determination kit. MAEE, Oct. 15-16, Rolla, MO.

89) **Yanna Liang**, 2010. Bioenergy production through different biological approaches. Suzhou University of Science and Technology. June, Suzhou, China.

90) Thara Siddaramu and **Yanna Liang**. 2010. A novel approach for using Jatropha seed cakes. Research Town meeting, April, 19. Carbondale.

91) **Yanna Liang**, Nick Sarkany, Yi Cui, Jesse Trushenski, James Blackburn. 2009. Sweet sorghum juice: an excellent feedstock for lipid production through microalgal fermentation. Technology and Innovation Expo, Oct. 9, Carbondale.

92) Jemil Yesuf and **Yanna Liang**. 2009. Characterization of a cellulolytic thermophile**.** Technology and Innovation Expo, Oct. 9, Carbondale.

93) **Yanna Liang** and Nick Sarkany. 2009. Microalgal fermentation: best use of crude glycerol for lipid production**.** Technology and Innovation Expo, Oct. 9, Carbondale.

94) Jemil Yesuf, **Yanna Liang**. 2009. Isolation and characterization of a thermophilic and aerobic cellulose-degrading bacterium. SIUC research town meeting. April 14. Carbondale.

95) Nicolas Sarkany, **Yanna Liang**. 2009. A ubiquitous green microalga- *Chlorella vulgaris*- Potential for bioenergy production. SIUC research town meeting. April 14. Carbondale.

96) **Yanna Liang**, Zhiyou Wen. 2009. Crude glycerol to lipids through microalgal fermentation. SIUC research town meeting. April 14. Carbondale.

97) **Yanna Liang.** 2009. Thermostable enzymes from thermophilc bacteria toward cellulose degradation. The consortium for plant biotechnology research, Inc. (CPBR) Bioenergy and Environment. Feb. 9-11, Washington DC.

98) **Yanna Liang.** 2009. Crude glycerol to lipids through microalgal fermentation. The consortium for plant biotechnology research, Inc. (CPBR) Bioenergy and Environment. Feb. 9-11, Washington DC.

99) Xuegang Jia, Luke Tolley, **Yanna Liang.** 2009. Bioassay Guided Fractionation for the Isolation of Active Proteins from Complex Mixtures. 36th ACS Northeast Regional Meeting, October 7-9, Hartford, CT.

100) **Yanna Liang**, 2008. Potentially novel cellulose-degrading bacterium from swine waste. Center for Ecology. Nov. 12. SIUC.

101) Jemil Yesuf, **Yanna Liang**. 2008. Characterization of cellulase enzymes from a thermophilic and aerobic cellulose-degrading bacterium. Mid-American Environmental Engineering Conference, Oct. 25, Edwardsville, IL.

102) **Yanna Liang,** David Lightfoot. 2008**.** From microalgae to biodiesel - a novel approach for understanding lipid production. The consortium for plant biotechnology research, Inc. (CPBR) 2008 Bioenergy and Environment. Feb. 11-13, Washington DC.

103) Charles Miller, Rob Child, **Yanna Liang**, Ann Anderson**,** Ronald C. Sims. 2007. Diversity of PAH-degrading mycobacteria: From genomics to phytostimulation. Battelle Press - 9th International In Situ and On-Site Bioremediation Symposium 2007, Volume 1, Pages 504.

104) **Yanna Liang**, Charles D. Miller, Bart C. Weimer, Chen Dong, Anne J. Anderson, Ronald C. Sims. (2006). Pyrene induced proteins in PAH-degrading *Mycobacterium* sp. KMS. Subsurface Biotechnology and Bioremediation Symposium and workshop, June 22-23, Bozeman, MT.

105) **Yanna Liang**. 2005. Biodegradation of pyrene in soil microcosms: Identification of a toxic intermediate (Second Place). World Water and Environmental Resources Congress, May 15-19, Anchorage, Alaska.

106) **Yanna Liang**, Brian Pettee, Charles D. Miller, Anne Anderson, Ronald C. Sims. (2005). Identification of proteins induced by polycyclic aromatic hydrocarbons in *Mycobacterium* KMS using 2-DE. INRA Subsurface Science Symposium, September 19-21, Big Sky, MT.

107) **Yanna Liang**, Dale R. Gardner, Charles D. Miller, Piotr Dobrowolski, and Ronald C. Sims. (2005). *Mycobacterium* sp. KMS, a novel pyrene-quinone degrader. American Chemical Society, March 13-17, San Diego, CA.

108) **Yanna Liang**, Dale R. Gardner, Charles D. Miller, Frank Olsen, and Ronald C. Sims. (2004). Mycobacterium sp. KMS, a novel pyrene-quinone degrader. INRA Subsurface Science Symposium, September 20-22, Spokane, WA.

109) **Yanna Liang**, Charles D. Miller, Ronald C. Sims (2004). Pyrene degradation pathway by *Mycobacterium* sp. KMS. Seventh Annual Intermountain Paper and Poster Symposium, Utah State University, Logan, UT.

110) **Yanna Liang**, Charles D. Miller, David W. Britt, Ronald C. Sims. (2003). Effect of humic acid on pyrene degradation. INRA Subsurface Science Symposium. October 5-8, Salt Lake City, UT.

111) **Yanna Liang**, C.D. Miller, D. Gardner, D.L. Sorensen, J.K.C. Nieman, R.C. Sims. (2002) Pyrene degradation by *Mycobacterium* sp. JLS, KMS, and MCS isolated from a former wood-preserving facility. INRA subsurface Science Symposium, October 13-16, Boise, ID.

7.5. Invited talks

1) "We shall have a seat at the table", Utah Water Research Laboratory, Keynote speaker, March 24-26, 2025

2) "Leveraging material science for solving critical environmental problems", Rensselaer Polytechnic Institute, February 5th, 2025.

3) "Innovative materials for capturing per- and polyfluoroalkyl substances (PFAS) in water". Stony Brook University, Dec. 11, 2024.
4) "Innovative materials for capturing or immobilizing PFAS in different environments.". NJIT. Dec. 11, 2023.

5) "Per- and polyfluoroalkyl substances (PFAS)- Emerging contaminants calling for innovative solutions." Department of Nanoscale Science & Engineering. UAlbany, September 7th, 2023.

6) "Stabilization of PFAS in Soil and Sewage Sludge and Innovative Sorbents Designed for this Purpose". NEWMOA, September 22, 2022. Webinar.

7) "Destructing PFAS in Plant Biomass Enriched with These Contaminants". Tribal Lands and Environmental Forum. Aug. 8-11th, 2022, Milwaukee, WI & Online.

8) "What should we do with the ever-increasing number of per- and polyfluoroalkyl substances (PFAS) in the environment?" Nankai University, Dec. 28, 2021. VooVmeeting.

9) "Food System Summit Dialogue", UAlbany Alumni Association, June 8th. 2021. Albany, NY.

10) "Sustainable Cities", Capital Region Sustainable Futures conference, April 27th, 2021, Albany, NY.

11) "Sustainable Pathways to a Pollution-free and Waste-free World", Research Coffee Hour, February 17, 2021, UAlbany, NY

12) "How to Achieve Sustainability", Class of Sustainability Studies, Rensselaer Polytechnic Institute, Oct. 30th, 2020.

13) "Resilient Water and Wastewater Infrastructure", RISE 2019, Nov. 19th, 2019. Albany, NY.

14) "Engineering Solutions for Global Sustainability and the Mitigation of Climate Change", Presentation to Aspiring Leaders. Nov. 6th, 2019.

15) "Remediation and treatment technologies targeting real-world applications. NYDEC. Oct. 1st, 2019.

16) "Remediation approaches for per- and polyfluoroalkyl substances (PFAS)", Young and Sommer Environmental Breakfast Club, June 7th, 2019.

17) Campus Conversations in Standish, "The Pursuit of Sustainability". Nov. 2nd, 2018. UAlbany, NY

18) "Emerging contaminants". Chemistry seminar, Nov. 12, 2018

19) "Microbial Ecology in Research Related to Environment and Energy", Ecology and Evolutionary Biology seminar, Feb. 23, 2018

8. Inventions and Patents

1) **Liang, Y-N**. Enhanced removal and destruction of per- and polyfluoroalkyl substances with magnetic modified clay and photoreductive degradation. Filed on Nov. 13, 2024. Provisional: P010-24-15US01.

2) **Liang, Y-N**. Kumar, A. Green and innovative biopolymer-based sorbents for removing PFAS from contaminated water. Filed on May 28, 2024. US Pat. No.: 63/652,361.

3) **Liang, Y-N**. Zhang W. Enhanced phytoremediation from bioavailability of per and polyfluoroalkyl substances in contaminated soil. Filed on May 6, 2024. Patent number: 18/655,578.

4) **Liang, Y-N**. Magnetic modified clay for removing PFAS from water. Filed on 11/13/2023. US Pat. No.: 63/548,316.

5) **Liang, Y-N**., Jiang, T., Zhang, W-L. Surfactant-modified montmorillonite for adsorption of per- and polyfluoroalkyl substances (PFAS) from aqueous solutions. Filed on Sep.1st, 2022. 010-22-15P01.

6) Lakhssassi N., Meksem K., **Liang, Y.-N.** EMS MUTAGENIZED CLOSTRIDIUM CARBOXIDIVORANS STRAINS. Filed on Aug. 12th, 2020. Application #: 63064772.

9. In the news

1) WXPR: A look at how researchers are trying to get PFAS out of soil | WXPR. October 21, 2025.

2) Top 2% researcher Worldwide. UAlbany Researchers Make Top 2% Worldwide List | University at Albany. Ioannidis, John P.A. (2024), "August 2024 data-update for "Updated science-wide author databases of standardized citation indicators"", Elsevier Data Repository, V7, doi: 10.17632/btchxktzyw.7.

3) Spectrum News: https://spectrumlocalnews.com/nys/central-ny/news/2024/09/05/funding-for-pfas-research-

4) https://mms.tveyes.com/MediaCenterPlayer.aspx?u=aHR0cDovL21lZGlhY2VudGVyLnR2ZXllcy5jb20vZG93bmxvYWRnYXRld2F5LmFzcHg%2FVXNlcklEPTI3NDAyMSZNRElEPTIyMTM5NjM1Jk1EU2VlZD03Mjk1JlR5cGU9TWVkaWE%3D

5) https://spectrumlocalnews.com/nys/central-ny/news/2024/09/05/funding-for-pfas-research-

6) https://mms.tveyes.com/MediaCenterPlayer.aspx?u=aHR0cDovL21lZGlhY2VudGVyLnR2ZXllcy5jb20vZG93bmxvYWRnYXRld2F5LmFzcHg%2FVXNlcklEPTI3NDAyMSZNRElEPTIyMTM5NjM1Jk1EU2VlZD03Mjk1JlR5cGU9TWVkaWE%3D

7) https://www.news10.com/news/ualbany-continues-pfas-research-with-epa-funding/

8) Episode page: https://www.valleygirlspodcast.com/episodes/earth-day-every-day-with-ualbany-and-sustainable-westchester-episode-08. April 25, 2024.

9) Blog: https://www.valleygirlspodcast.com/blog/think-globally-act-locally-a-sustainable-future-for-the-hudson-valley April 25, 2024.

10) 2023 Inventor Recognition Award Winner. UAlbany Recognizes Inventors During Research and Entrepreneurship Week | University at Albany. Nov. 16, 2023.

11) Excellence in Research Leadership. UAlbany Spotlights Senior Faculty for Research, Creative Arts and Scholarship | University at Albany. Nov. 9, 2023.

12) 9-15-23 Technology Accelerator Fund Grants - SUNY. September 15, 2023.

13) https://www.popularmechanics.com/science/health/a44533163/pfas-safe-drinking-water/. July 18, 2023

14) Outlook 2023: UAlbany researcher is also founder and CEO of Regenerative Solutions Inc. - The Daily Gazette, Feb. 23rd, 2023.

15) Finding Solutions to Remove PFAS from Water | University at Albany. Feb. 2nd, 2023.

16) Wastewater Testing/RSV. Capital Region pioneers in COVID-19 wastewater tracking talk expansion to testing for RSV, flu (news10.com). Jan. 27th, 2023.

17) FuzeHub Announces Winners of NYS Advanced Materials Innovation Challenge. FuzeHub Announces Winners of NYS Advanced Materials Innovation Challenge. Dec. 20, 2022.

18) What should I do about PFAS in my water? https://wisconsinwatch.org/2022/11/what-should-i-do-about-pfas-in-my-water/. Wisconsin Watch. Nov. 21, 2022.

19) New UAlbany masters program to train next environmental engineers. New UAlbany masters program to train next environmental engineers | WRGB (cbs6albany.com), Sep. 6th, 2022.

20) Disrupting PFAS - Woodard & Curran (woodardcurran.com). May 4th, 2022

21) How the way we eliminate toxic PFAS from water also takes an environmental toll. https://whyy.org/articles/environmental-toll-of-eliminating-toxic-pfas-from-water/. WHYY, March 20th, 2022.

22) UAlbany professor reimagining organic waste disposal, https://wnyt.com/albany-ny-education-stem/ualbany-professor-yanna-liang-reimagining-organic-waste-disposal/6389845/?cat=12954, February 11th, 2022.

23) Asbestos in water pipes. https://altamontenterprise.com/12012021/we-shouldnt-play-russian-roulette-our-water-supply. December 1st, 2021.

24) UAlbany Innovators Flourish at SUNY Startup Summer School. https://www.albany.edu/news-center/news/2021-ualbany-innovators-flourish-suny-startup-summer-school. September 9th, 2021.

25) COVID-19 Wastewater Monitoring: https://www.timesunion.com/news/article/Students-analyze-poop-to-map-spread-of-coronavirus-15626105.php, October 12, 2020.

26) PFAS Remediation with Professor Liang, Medium Sanctuary: https://soundcloud.com/mediasanctuary/pfas-remediation-with-yanna-liang, July 31, 2020

27) UAlbany to lead $3.4M Environmental Sustainability Project https://www.albany.edu/news/93910.php, May 28, 2020

28) On being a woman in STEM. The Sanctuary for Independent Media, https://www.mediasanctuary.org/podcasts/yanna-liang-women-in-stem-pt-6/ Oct. 1st, 2019

29) Biogas Could Provide New Life for Illinois Coal Mines https://miningconnection.com/longwall/featured_stories/article/biogas_could_provide_new_life_for_illinois_coal_mines. June 12, 2019

30) UAlbany launches department for environmental engineers, https://dailygazette.com/2017/08/09/ualbany-launches-department-for-environmental-engineers/. August 9, 2017.

31) Promising Bio-Gasification Technology Turns Coal to Methane, https://insights.globalspec.com/article/2382/promising-bio-gasification-technology-turns-coal-to-methane. March 29, 2016.

32) SIUC researcher looks at algae as energy source, https://thesouthern.com/news/local/siuc-researcher-looks-at-algae-as-energy-source/article_70f81c70-f607-5679-9d34-71bc6a4aa1da.html. January 21, 2009.

10. Other

1) Professional Engineer (PE) License, State of Michigan, 2010-present

2) Board Certified Environmental Engineer, AAEES, 2018-present

3) ABET visit, Northern Arizona University, September 21-25, 2019

4) ABET visit, Central State University, December 7-9, 2020

5) ABET visit, Montana State University, September 27-19, 2021