#### **CURRICULUM VITAE**

## Zhi (George) Zhou

Ph.D., P.E., BCEE, ENVSP

School of Civil Engineering and Division of Environmental and Ecological Engineering
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<b>EDUCATION</b>				
2007	Ph.D.	Department	of Civil and En	vironmental Engineering, University of
			bana-Champaig	
2002	M.S.			tal Science, Nanjing University, China
1999	B.S.	Department	of Environmen	tal Science, Nanjing University, China
LICENSURE an	A CEPT	IEICATION	Г	
2018–present		n Sustainabil		Institute for Sustainable Infrastructure
2010 present		onal (ENV S		mistrate for Sastaniable infrastracture
2017–present		Certified Envi		American Academy of Environmental
r		er (BCEE)		Engineers & Scientists
2010-present		onal Engine	er (PE, Civil:	California Board for Professional
-	Water Ro	esources and l	Environmental)	Engineers, Land Surveyors, and
				Geologists
2010		<b>ate</b> on "Devel		Accreditation Board for Engineering and
		ble Program A	Assessment	Technology (ABET), Inc.
		s" workshop	_	
2003–2006	Certifie	d Livestock N	Manager	Illinois Department of Agriculture, IL
PROFESSIONA	I. EXPE	RIENCE		
08/2020–present			Civil Engineer	ing and Environmental and Ecological
oo, <b>2</b> 0 <b>2</b> 0 present	11000010			rurdue University, West Lafayette, IN
06/2014-07/2020	Assistar	nt Professor		ing and Environmental and Ecological
				urdue University, West Lafayette, IN
04/2017-present	Affiliate	d Faculty	Center for the	Environment, Purdue University
02/2017–present			•	Research Institute, Purdue University
06/2014–present	Affiliate	d Faculty	_	ry Graduate Program of Ecological
				gineering, Purdue University
02/2010-05/2014	Assistar	nt Professor		Civil and Environmental Engineering,
07/0012 07/0012	<b>T7.</b>	D C		ersity of Singapore (NUS), Singapore
06/2013-07/2013	visiting	Professor		ineering and Applied Sciences, Harvard
07/2007 01/2010	Concult	ing Engineer	University, Car	eers, Inc., Walnut Creek, CA
08/2002-06/2007		0 0		llinois at Urbana-Champaign, Urbana, IL
10/2004–11/2004			•	ational Centre for Scientific Research,
, = = = = , = = = .				nical Engineering Science Laboratory
				C), Nancy, France
09/2000-06/2002	Researc	h Assistant	Nanjing Unive	rsity, China
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06/1998–06/1999 Research Assistant Nanjing University, Jiangsu, China

02/1998-06/1998 **Intern** 

National Environmental Protection Bureau, Nanjing, Jiangsu, China

#### **HONORS AND AWARDS**

03/2023	Long service Award, PLOS ONE editorial board
08/2021	Outstanding Engineering Teachers, College of Engineering, Purdue University
04/2019	Outstanding Faculty Mentor of Environmental and Ecological Engineering Graduate
	Students, Purdue University
11/2018	Certificate of Outstanding Contribution in Reviewing of journal Renewable Energy
10/2018	Certificate of Outstanding Contribution in Reviewing of journal Environmental
	International
04/2018	Certificate of Outstanding Contribution in Reviewing of journal Bioresource
	Technology
02/2018	Certificate of Outstanding Contribution in Reviewing of journal Science of the Total
	Environment
07/2017	Certificate of Outstanding Contribution in Reviewing of journal Chemical Engineering
	Journal
01/2010	Certificate of Appreciation, Chinese American Environmental Professionals
	Association, Oakland, CA
05/2007	Graduate College Conference Travel Award, University of Illinois
05/2007	Racheff Graduate Student Travel Fund Award, University of Illinois
05/2006	Racheff Graduate Student Travel Fund Award, University of Illinois
06/2005	Natural Science Progress Award (second class), Nanjing, China
05/2005	Racheff Graduate Student Travel Fund Award, University of Illinois
05/2004	American Society for Microbiology Travel Grant
08/2002	University Fellowship, University of Illinois
08/2002	John W. Page Fellowship, University of Illinois
06/2001	Excellence Fellowship, Nanjing University

#### HONORS AND AWARDS OF ADVISED STUDENTS

- 11/2023 Seed for Success Acorn Award, Purdue University
- 04/2023 New Venture Challenge Audience Choice Award in the Purdue Innovates Startup Expo
- O4/2023 Champion in the Great Lakes region and Technology Bonus Prize semifinalist for the category of Fossil Energy and Carbon Management for the EnergyTech University Prize competition held by U.S. Department of Energy for Team Carbonbusters by Sharon Hughes (Ph.D. student) and Amanda Lopez (Ph.D. student), and Neha Shakelly
- O2/2022 Technology Bonus Prize semifinalist for the category of Fossil Energy and Carbon Management in the Great Lakes region for the EnergyTech University Prize competition held by U.S. Department of Energy for Team Carbonbusters led by Sharon Hughes (Ph.D. student)
- 05/2018 Best Poster Award in 39th Annual Indiana Water Resources Association Symposium for Zhe Sun (Ph.D. student), Purdue University
- 06/2012 Excellence Award of Environmental Science and Engineering (ESE) Poster Symposium for Yuanyan Du (senior student), NUS
- 06/2012 Merit Award of ESE Poster Symposium for Chenghui Lin (senior student), NUS
- 08/2011 President's Graduate Fellowship for Xinzhu Yi (Ph.D. student), NUS

RESEARC	H GRAI	<u>NTS</u> (24)	
2024-2026	PΙ	Bioaccumulation and biotransformation of PFAS	SUnited States Geological
		and their precursors in the environment	Survey
2023-2025	PΙ	Retention of PFAS on Spent Filters	Water Quality Research
			Foundation
2023-2028	Co-PI	When Blue is Green: Sustainable Blue Food	United States Department of
2024 2024	C DI	Systems Driven by Integrated Aquaponics	Agriculture
2021-2024	Co-PI	Advancing remote sensing of the biogeochemica	
2020 2021	C. DI	state of midwestern inland waters	Space Administration
2020–2021	Co-PI	Cost-effective and affordable defluoridation	Shah Family Global Innovation Lab
2019–2020	PΙ	treatment Southport advanced wastewater treatment plant	Citizen's Energy Group
2019-2020	LI	<ul><li>phosphorus control</li></ul>	Cluzell's Ellergy Gloup
2018–2020	PΙ	Emerging contaminant removal and microbial	Water Quality Research
2010-2020	11	growth in membrane filtration and activated	Foundation
		carbon point-of-use systems	Todildation
2018–2019	PΙ	Evaluation of our current and other available	Indiana Department of
		anti-icing/de-icing products under controlled	Transportation
		environmental conditions to test effectiveness	1
2018	PΙ	Nature-inspired cost-effective production of	Purdue Research
		biofuels with algal viruses	Foundation
2017–2019	PΙ	Effects of viruses on the development of	United States Geological
		harmful algal blooms	Survey
2017	PΙ	Anti-fouling electrochemical graphene/carbon	Purdue Research
		nanotube ceramic membrane for wastewater	Foundation
2046	DI	treatment	D 1 FFF 0 6
2016	PΙ	Development of electrochemical membranes to	Purdue EEE Support for
2015–2016	ΡΙ	reduce biofouling for water purification Microbial source tracking for Gunpowder Creek	Exploratory Research
2013–2010	LI	Watershed in Kentucky	Northern Kentucky and
		watershed in Rentucky	Boone County Conservation
			District
2015–2016	PΙ	Artificial photosynthesis for efficient biofuel	Purdue Research
		production with bioeletrocatalyzed reduction of	Foundation
		$CO_2$	
2015	Co-PI	Recovery of nutrients from animal and human	Bio Town AG Inc.
		wastes	
2014–2016	Co-PI	Development of ceramic-based electrochemical	
		graphene filter for oil & gas wastewater	Environmental Research
0042 0046	DI	treatment	Institute
2013–2016	PΙ	Rapid and accurate quantification of antibiotic	Singapore Environment &
		resistant bacteria and quantitative risk assessmen	t Water Industry
2013–2015	Co-PI	for water security Guidelines for engineered storage for direct	U.S. WateReuse Research
201 <i>3</i> –2013	C0-1 1	potable reuse systems	Foundation
2013–2015	PΙ	Development of electrochemical carbon	Singapore Environment &
_015 _015		nanotube filters to remove off-flavor	Water Industry
		compounds	
		1	

2012–2013	Co-PI	Interaction of microbial consortia in anaerobic	General Electric
2011–2014	ΡΙ	MBR treating high organic strength waste A new type of photosynthesis through electrode-	Singapore Ministry of
2010–2013	ΡΙ	driven anaerobic respiration  Photoelectrochemical water splitting for the	Education Singapore Polying and
2010–2013	rı	production of value-added chemicals	Singapore, Peking and Oxford Research Enterprise
2010–2013	Co-PI	1	Singapore Public Utilities
2010–2013	ΡΙ	detection of used water toxicity Evaluation of MLS <sub>B</sub> antimicrobial resistance at	Board Sincerous Ministry of
2010-2013	rı	environmental samples	Singapore Ministry of Education

#### **TEACHING GRANT** (1)

2021–2023 **Co-PI** Agile Reform of EEE Curriculum

Agile Reform of Curriculum Innovation Grants, Purdue

### **JOURNAL PUBLICATIONS** (50)

- 1. Li, G., B. Li, M. Yu, J. Wang, L. Jiang, Y. Yu, X. Sha, X. He, and **Z. Zhou** (2023). "Assessing the efficiency of ozone-based advanced drinking water treatment processes in removing antibiotics and antibiotic-resistant genes: Pilot-scale research." *Journal of Water Process Engineering* 55: 104146.
- 2. Jiang, L., W. Zhai, J. Wang, G. Li, **Z. Zhou**, B. Li, and H. Zhuo (2023). "Antibiotics and antibiotic resistance genes in the water sources of the Wuhan stretch of the Yangtze River: Occurrence, distribution, and ecological risks." *Environmental Research* 239: 117295.
- 3. Chen, P., H.-J. Kim, L.R. Thatcher, J.M. Hamilton, M.L. Alva, **Z. Zhou**, and P.B. Brown (2023). "Maximizing nutrient recovery from aquaponics wastewater with autotrophic or heterotrophic management strategies." *Bioresource Technology Reports* 21: 101360.
- 4. Bhatt, P., B.A. Engel, K.B. Shivaram, R.F. Turco, **Z. Zhou**, and H. Simsek (2023). "Treatment and optimization of high-strength egg-wash wastewater effluent using electrocoagulation and electrooxidation methods." *Chemosphere*.
- 5. Wang, J., X. Sha, X. Chen, H. Zhuo, W. Xie, **Z. Zhou**, X. He, L. Wu, and B. Li (2022). "Removal and distribution of antibiotics and resistance genes in conventional and advanced drinking water treatment processes." *Journal of Water Process Engineering* 50: 103217.
- 6. Lin, S., **Z. Zhou**, H. Wu, S. Yin, and Y. Wang (2022). "Electrochemical oxidation of aniline using a high-flux CNT filter." *Journal of Water Process Engineering* 46: 102536.
- 7. Tian, M., H. Wang, X. Li, D. Li, **Z. Zhou**, and B. Li (2021). "Efficiency of hybrid systems enhanced with different sludge ratios in improving resistance to short-term low temperatures." *Journal of Environmental Management* 297: 113398.
- 8. Chen, L., S. Gao, L. Lou, and **Z. Zhou** (2021). "Removal of intracellular and extracellular antibiotic resistance genes from swine wastewater by sequential electrocoagulation and electro-Fenton processes." *Environmental Engineering Science* 38(2): 74-80.
- 9. Sun, Z., E.R. Blatchley III, and **Z. Zhou** (2020). "Using algal virus *Paramecium bursaria* chlorella virus as a human adenovirus surrogate for validation of UV treatment systems." *Environmental Science & Technology*.
- 10. Chen, L., **Z. Zhou**, C. Shen, and Y. Xu (2020). "Inactivation of antibiotic-resistant bacteria and antibiotic resistance genes by electrochemical oxidation/electro-Fenton process." *Water Science and Technology* 81(10): 2221-2231.

11. Zhang, Y., C. Li, Y. Wu, Y. Zhang, **Z. Zhou**, and B. Cao (2019). "A microfluidic gradient mixer-flow chamber as a new tool to study biofilm development under defined solute gradients." *Biotechnology and Bioengineering* 116(1): 54-64.

- 12. Yi, X., M. Wang, and **Z. Zhou** (2019). "The potential impact of naturally produced antibiotics, environmental factors, and anthropogenic pressure on the occurrence of erm genes in urban soils." *Environmental Pollution* 245: 282-289.
- 13. Yi, X., C. Lin, E.J.L. Ong, M. Wang, and **Z. Zhou** (2019). "Occurrence and distribution of trace levels of antibiotics in surface waters and soils driven by non-point source pollution and anthropogenic pressure." *Chemosphere* 216: 213-223.
- 14. Yi, X., C. Lin, E.J.L. Ong, M. Wang, B. Li, and **Z. Zhou** (2019). "Expression of resistance genes instead of gene abundance are correlated with trace levels of antibiotics in urban surface waters." *Environmental Pollution* 250: 437-446.
- 15. Sun, Z. and **Z. Zhou** (2019). "Nature-inspired virus-assisted algal cell disruption for cost-effective biofuel production." *Applied Energy* 251: 113330.
- 16. Li, B., W. Yan, Y. Wang, H. Wang, **Z. Zhou**, Y. Li, and W. Zhang (2019). "Effects of key enzyme activities and microbial communities in a flocculent-granular hybrid complete autotrophic nitrogen removal over nitrite reactor under mainstream conditions." *Bioresource Technology* 280: 136-142.
- 17. Li, B., Y. Wang, J. Li, L. Yang, X. Li, **Z. Zhou**, Y. Li, X. Chen, and L. Wu (2019). "The symbiosis of anaerobic ammonium oxidation bacteria and heterotrophic denitrification bacteria in a size-fractioned single-stage partial nitrification/anammox reactor." *Biochemical Engineering Journal*.
- 18. Salehi, M., M. Abouali, M. Wang, **Z. Zhou**, A.P. Nejadhashemi, J. Mitchell, S. Caskey, and A.J. Whelton (2018). "Case study: Fixture water use and drinking water quality in a new residential green building." *Chemosphere* 195: 80-89.
- 19. Pruden, A., R.E. Alcalde, P.J.J. Alvarez, N. Ashbolt, H. Bischel, N.L. Capiro, E. Crossette, D. Frigon, K. Grimes, C.N. Haas, K. Ikuma, A. Kappell, T. LaPara, L. Kimbell, M. Li, X. Li, P. McNamara, Y. Seo, M.D. Sobsey, E. Sozzi, T. Navab-Daneshmand, L. Raskin, M.V. Riquelme, P. Vikesland, K. Wigginton, and **Z. Zhou** (2018). "An Environmental Science and Engineering Framework for Combating Antimicrobial Resistance." *Environmental Engineering Science* 35(10): 1005-1011.
- 20. Liu, C., Y. Sun, D. Wang, Z. Sun, M. Chen, **Z. Zhou**, and W. Chen (2017). "Performance and mechanism of low-frequency ultrasound to regenerate the biological activated carbon." *Ultrasonics Sonochemistry* 34: 142-153.
- 21. He, H. and **Z. Zhou** (2017). "Electro-Fenton process for water and wastewater treatment." *Critical Reviews in Environmental Science and Technology* 47(21): 2100-2131.
- 22. Le, T.-H., C. Ng, H. Chen, X.Z. Yi, T.H. Koh, T.M.S. Barkham, **Z. Zhou**, and K.Y.-H. Gin (2016). "Occurrences and characterization of antibiotic resistant bacteria and genetic determinants of hospital wastewaters in a tropical country." *Antimicrobial Agents and Chemotherapy* 60(12): 7449-7456.
- 23. Jing, H., S. Cheung, **Z. Zhou**, C. Wu, S. Nagarajan, and H. Liu (2016). "Spatial variations of the methanogenic communities in the sediments of tropical mangroves." *PLOS One* 11(9): e0161065.
- 24. Jame, S.A. and **Z. Zhou** (2016). "Electrochemical carbon nanotube filters for water and wastewater treatment." *Nanotechnology Reviews* 5(1): 41-50.
- 25. Goyal, N., **Z. Zhou**, and I.A. Karimi (2016). "Metabolic processes of Methanococcus maripaludis and potential applications." *Microbial Cell Factories* 15(1): 107.

26. Yi, X., S. Bayen, B.C. Kelly, X. Li, and **Z. Zhou** (2015). "Improved detection of multiple environmental antibiotics through an optimized sample extraction strategy in liquid chromatography-mass spectrometry analysis." *Anal Bioanal Chem* 407(30): 9071-83.

- 27. Liu, Y., J. Xie, C.N. Ong, C.D. Vecitis, and **Z. Zhou** (2015). "Electrochemical wastewater treatment with carbon nanotube filters coupled with in situ generated H<sub>2</sub>O<sub>2</sub>." *Environmental Science: Water Research & Technology* 1(6): 769-778.
- 28. Liu, Y., H. Liu, **Z. Zhou**, T. Wang, C.N. Ong, and C.D. Vecitis (2015). "Degradation of the common aqueous antibiotic tetracycline using a carbon nanotube electrochemical filter." *Environmental Science & Technology* 49(13): 7974-7980.
- 29. Jing, H., X. Xia, H. Liu, **Z. Zhou**, C. Wu, and S. Nagarajan (2015). "Anthropogenic impact on diazotrophic diversity in the mangrove rhizosphere revealed by nifH pyrosequencing." *Front Microbiol* 6: 1172.
- 30. Goyal, N., M. Padhiary, I.A. Karimi, and **Z. Zhou** (2015). "Flux measurements and maintenance energy for carbon dioxide utilization by *Methanococcus maripaludis*." *Microbial Cell Factories* 14: 146.
- 31. Liu, Y., J.H.D. Lee, Q. Xia, Y. Ma, Y. Yu, L.Y.L. Yung, J. Xie, C.N. Ong, C.D. Vecitis, and **Z. Zhou** (2014). "A graphene-based electrochemical filter for water purification." *Journal of Materials Chemistry A* 2(39): 16554-16562.
- 32. Le, T.-H., V. Sivachidambaram, X. Yi, X. Li, and **Z. Zhou** (2014). "Quantification of polyketide synthase genes in tropical urban soils using real-time PCR." *Journal of Microbiological Methods* 106(0): 135-142.
- 33. Goyal, N., H. Widiastuti, I.A. Karimi, and **Z. Zhou** (2014). "A genome-scale metabolic model of *Methanococcus maripaludis* S2 for CO<sub>2</sub> capture and conversion to methane." *Molecular BioSystems* 10(5): 1043-54.
- 34. Bayen, S., X. Yi, E. Segovia, **Z. Zhou**, and B.C. Kelly (2014). "Analysis of selected antibiotics in surface freshwater and seawater using direct injection in liquid chromatography electrospray ionization tandem mass spectrometry." *Journal of Chromatography A* 1338: 38-43.
- 35. Zhang, Y., C. Zhang, D.B. Parker, D.D. Snow, **Z. Zhou**, and X. Li (2013). "Occurrence of antimicrobials and antimicrobial resistance genes in beef cattle storage ponds and swine treatment lagoons." *Science of the Total Environment* 463-464: 631-8.
- 36. Zhang, Y., D.D. Snow, D. Parker, **Z. Zhou**, and X. Li (2013). "Intracellular and extracellular antimicrobial resistance genes in the sludge of livestock waste management structures." *Environmental Science & Technology* 47(18): 10206-13.
- 37. Nagarajan, S., S.K. Chou, S. Cao, C. Wu, and **Z. Zhou** (2013). "An updated comprehensive techno-economic analysis of algae biodiesel." *Bioresource Technology* 145: 150-6.
- 38. **Zhou, Z.** (2012). "Enhancing engineering students' learning in an environmental microbiology course." *Journal of Microbiology & Biology Education* 13(2): 191-192.
- 39. **Zhou, Z.,** L. Raskin, and J.L. Zilles (2010). "Effects of swine manure on macrolide, lincosamide, and streptogramin B antimicrobial resistance in soils." *Applied & Environmental Microbiology* 76(7): 2218-2224.
- 40. **Zhou, Z.,** L. Raskin, and J.L. Zilles (2009). "Macrolide resistance in microorganisms at antimicrobial-free swine farms." *Applied & Environmental Microbiology* 75(18): 5814-5820.
- 41. Vadiveloo, E., R. Cisterna, H. Breitenkam, J. Lopez, R. Harris, T. Greiner, P. Pitt, K. Alexander, R. Latimer, P. Vinci, **Z. Zhou**, and A. Salveson (2009). "Identifying the feasibility of canal recharge for indirect potable reuse: the Plantation experience." *Florida Water Resources Journal*(8): 38-43.

42. Finney, B., R. Gearheart, A. Salveson, **Z. Zhou**, M. Burke, and J.C. Ly (2009). "Water and wastewater treatment technologies appropriate (WAWTTAR), a planning tool for selecting wastewater treatment technologies." *Water Environment & Technology*(10): 51-54.

- 43. **Zhou, Z.**, M.N. Pons, L. Raskin, and J.L. Zilles (2007). "Automated image analysis for quantitative fluorescence *in situ* hybridization with environmental samples." *Applied & Environmental Microbiology* 73(9): 2956-2962.
- 44. Yang, L., L. Xiao, **Z. Zhou**, D. Pei, and X. Wang (2004). "Effect of pH on adsorption of phenol to organic montmorillonite." *Environmental Chemistry* 23(2): 183-187.
- 45. Yang, L., **Z. Zhou**, L. Xiao, and X. Wang (2003). "Chemical and biological regeneration of HDTMA-modified montmorillonite after sorption with phenol." *Environmental Science & Technology* 37(21): 5057-5061.
- 46. Yang, L., **Z. Zhou**, and L. Xiao (2003). "Study on adsorption of phenol to HDTMA-modified montmorillonite and its mechanism." *Shanghai Environmental Sciences* 22(7): 456-458.
- 47. Shi, X., F. Wang, L. Jiang, **Z. Zhou**, L. Yang, Z. Kong, G. Gao, and B. Qin (2003). "Effect of temperature on the transformation of exogenous <sup>32</sup>P in water column, *Microcystis aeruginosa* and sediments." *Chinese Journal of Applied Ecology* 14(11): 1967-1970.
- 48. Yang, L., L. Jiang, **Z. Zhou**, Y. Chen, and X. Wang (2002). "The sedimentation capabilities of hexadecyltrimethylammonium-modified montmorillonites." *Chemosphere* 48(4): 461-466.
- 49. Yang, L., Q. Fu, L. Jiang, **Z. Zhou**, D. Pei, and X. Wang (2002). "The stability of organic matters adsorbed on organoclay." *China Environmental Science* 22(1): 52-55.
- 50. **Zhou, Z.** and L. Yang (2001). "Screening of phenol degrading yeast and its characteristics." *Journal of Nanjing University* 37(6): 724-729.

### CONFERENCE PROCEEDINGS, POSTERS, AND PRESENTATIONS (115)

- 1. Montalvo, F., E. Ken-Opurum, and **Z. Zhou** (2023). "Point-of-Use Systems for the Removal of Pathogens and Heavy Metals in Drinking Water in South America." *Association of Environmental Engineering and Science Professors Research and Education Distinguished Lecture Conference*, South Bend, IN.
- 2. Hui, W., R. Li, and **Z. Zhou** (2023). "Effects of pH on Metal Leaching from Activated Carbon Block Filters." Association of Environmental Engineering and Science Professors Research and Education Distinguished Lecture Conference, South Bend, IN.
- 3. Fan, Q. and **Z. Zhou** (2023). "Groundwater Defluoridation with Electrocoagulation." Association of Environmental Engineering and Science Professors Research and Education Distinguished Lecture Conference, South Bend, IN.
- 4. Chen, S., K. Cherkauer, M. Crawford, **Z. Zhou**, C. Troy, A. Slotke, N.H.V. Pham, and S. Tan (2023). "Remote sensing of Midwestern U.S. water quality." *3rd Annual Harmful Algal Bloom Symposium*.
- 5. Montalvo, F., E. Ken-Opurum, and **Z. Zhou** (2022). "Removal of Legionella in drinking water with point-of-use water filters." *Association of Environmental Engineering and Science Professors Research and Education Conference*, Washington, D.C.
- 6. Ken-Opurum, E., F. Montalvo, H.-Y. Yu, S. Gupta, C. Graham, and **Z. Zhou** (2022). "Fouling development and microbial growth in point-of-use water filtration systems." *Association of Environmental Engineering and Science Professors Research and Education Conference*, St. Louis, MO.
- 7. Gupta, S., H.-Y. Yu, C. Graham, and **Z. Zhou** (2022). "Assessment of chemical and biological factors for the removal of emerging contaminants in activated carbon and membrane filtration point-of-use water filters." *Association of Environmental Engineering and Science Professors Research and Education Conference*, St. Louis, MO.

8. Yu, H.-Y., S. Gupta, S. Hong, H. Congleton, B. Jolkovsky, S. Mendelson, and **Z. Zhou** (2021). "Removal of assimilable organic carbon in activated carbon and reverse osmosis water filtration systems." *26th Annual Environmental Engineering and Science Symposium*.

- 9. Ken-Opurum, E., C. Graham, L. Peng, A.L.S. Gonzalez, H.-y. Yu, S. Gupta, N. Zyaykina, and **Z. Zhou** (2021). "Microbial growth and PFAS removal in point-of-use water filtration systems." *IWA Biofilm Reactors Conference*, Notre Dame, IN.
- 10. Graham, C., S. Gupta, H.-Y. Yu, and **Z. Zhou** (2021). "Removal of per- and polyfluoroalkyl substances (PFAS) in point-of-use (POU) activated carbon and membrane filtration systems." *26th Annual Environmental Engineering and Science Symposium*.
- 11. Bi, Y., S. Gupta, H.-Y. Yu, and **Z. Zhou** (2021). "Removal of manganese and uranium in tap water with point-of-use filtration systems." *26th Annual Environmental Engineering and Science Symposium*.
- 12. Sun, Z., **Z. Zhou**, and E.R. Blatchley III (2020). "Using algal virus *Paramecium bursaria* chlorella virus (PBCV-1) as a human adenovirus surrogate for the validation of UV treatment systems." *International UV Association*, Orlando, FL.
- 13. Graham, C., S. Gupta, and **Z. Zhou** (2020). "Impacting factors on removal efficiency of perand polyfluoroalkyl substances (PFAS) in activated carbon and membrane filtration systems." *Purdue University Fall Undergraduate Research Exposition*, West Lafayette, IN.
- 14. Bi, Y., H.-Y. Yu, and **Z. Zhou** (2020). "Metal removal in tap water with point-of-use water filtration systems." *Purdue University Fall Undergraduate Research Exposition*, West Lafayette, IN.
- 15. **Zhou, Z.** (2019). "Drivers and barriers of antibiotic resistance in urban and natural environments." Association of Environmental Engineering and Science Professors Research and Education Conference, Tempe, AZ.
- 16. **Zhou, Z.** (2019). "Smart and resilient storm water management system." *Indiana Department of Transportation Research Program Innovation Fair*, Indianapolis, IN.
- 17. **Zhou, Z.** (2019). "Evaluation of emerging contaminants to support cost-effective storm water quality management." *Indiana Department of Transportation Research Program Innovation Fair*, Indianapolis, IN.
- 18. Wang, M. and **Z. Zhou** (2019). "Selective pressure of trace level antibiotics on the development of antibiotic resistance and horizontal gene transfer." *Association of Environmental Engineering and Science Professors Research and Education Conference*, Tempe, AZ.
- 19. Sun, Z. and **Z. Zhou** (2019). "UV radiation as a water treatment strategy for algal cultivation Inactivation of algal virus measured by plaque assay and qPCR." Association of Environmental Engineering and Science Professors Research and Education Conference, Tempe, AZ.
- 20. Sun, Z., E.R. Blatchley III, and Z. Zhou (2019). "Application of UV irradiation to inactivate parasites in algal cultivation." *AlgalBBB 2019: The 9th International Conference on Algal Biomass, Biofuels and Bioproducts*, Boulder, CO.
- 21. Ji, Y., B. McCullouch, and **Z. Zhou** (2019). "Life cycle assessment of environmental impacts of conventional and alternative anti-icing and de-icing chemicals." *Indiana Department of Transportation Research Program Innovation Fair*, Indianapolis, IN.
- 22. Ji, Y., B. McCullouch, and **Z. Zhou** (2019). "Sustainability of commercially available antiicing and de-icing chemicals." *Association of Environmental Engineering and Science Professors Research and Education Conference*, Tempe, AZ.
- 23. **Zhou, Z.** (2018). "Evaluation of biodegradable de-icing agents for sustainable ice and snow control." *Indiana Department of Transportation Research Program Innovation Fair*, Indianapolis, IN.
- 24. Wang, M. and **Z. Zhou** (2018). "Selective pressure of trace level antibiotics on the development of antibiotic resistance and horizontal gene transfer." *Association of Environmental*

- Engineering and Science Professors Research and Education Distinguished Lecture Conference, West Lafayette, IN.
- 25. Sun, Z. and **Z. Zhou** (2018). "Effects of viruses on the development and decay of harmful algal blooms." *39th Indiana Water Resources Association Symposium*, Bloomington, IN.
- 26. Sun, Z., S. Wu, and **Z. Zhou** (2018). "Nature-inspired virus-assisted lipid extraction for efficient biofuel production with microalgae *Chlorella* sp." *Association of Environmental Engineering and Science Professors Research and Education Distinguished Lecture Conference*, West Lafayette, IN.
- 27. Li, B., J.T. Li, **Z. Zhou**, R. Huang, and Y.N. Liang (2018). "The possible role of different aggregates in nitrogen removal in single-stage Autotrophic nitrogen removal process."

  Association of Environmental Engineering and Science Professors Research and Education Distinguished Lecture Conference, West Lafayette, IN.
- 28. Chen, R., M. Wang, and **Z. Zhou** (2018). "Effect of carbon nanotube on horizontal gene transfer in microbes." *Association of Environmental Engineering and Science Professors Research and Education Distinguished Lecture Conference*, West Lafayette, IN.
- 29. Blatchley III, E.R., J.V. Sinfield, W.T. Horton, L. Lu, Z. Nyssa, C. Mitchell, G. Burniske, **Z. Zhou**, J. Sullivan, D. Schuster, and E. Cronin (2018). "Potential for recovery and reuse of heat from municipal wastewater treatment facilities in urban areas." *International Water Association Specialized International Conferences on Ecotechnologies for Wastewater Treatment*, London, Ontario, Canada.
- 30. Yi, X., M. Wang, and **Z. Zhou** (2017). "Selective pressure of trace levels of antibiotics on phenotypic antibiotic resistance in urban surface waters and soils." *American Society for Microbiology 117th General Meeting*, New Orleans, LA.
- 31. Yi, X., M. Wang, Q. Wei, and **Z. Zhou** (2017). "Occurrence and distribution of erythromycin resistance methylase (*erm*) genes in urban surface waters without impact of treated wastewater." Association of Environmental Engineering and Science Professors Research and Education Conference, Ann Arbor, MI.
- 32. Wu, S., Z. Sun, and **Z. Zhou** (2017). "Improvement of lipid extraction in algal biodiesel production with sonication." *Purdue University Undergraduate Research and Poster Symposium*, West Lafayette, IN.
- 33. Wang, M., M.S. Esfandarani, A. Whelton, and **Z. Zhou** (2017). "Chemical leaching and microbial growth in drinking water pipes in a newly commissioned residential building." *23rd Annual Environmental Engineering & Science Symposium at University of Illinois*, Champaign, IL.
- 34. Sun, Z., P. Mrutyunjay, and **Z. Zhou** (2017). "Microbial eletrosynthesis of biofuels with *Blautia* strains." *American Society for Microbiology 117th General Meeting*, New Orleans, LA.
- 35. Sun, T., N.-A. Nguyen, Z. Sun, and **Z. Zhou** (2017). "Acetate production through microbial electrosynthesis as an intermediate for biofuels production." *Purdue University Undergraduate Research and Poster Symposium*, West Lafayette, IN.
- 36. Stryker, B.M., S. Park, and **Z. Zhou** (2017). "Removal of lead with electrochemical multi-walled carbon nanotube filters." *23rd Annual Environmental Engineering & Science Symposium at University of Illinois*, Champaign, IL.
- 37. Park, S. and **Z. Zhou** (2017). "Performance and mechanisms of electrochemical carbon nanotube filtration to remove antibiotic resistant bacteria and antibiotic resistance genes."

  Association of Environmental Engineering and Science Professors Research and Education Conference, Ann Arbor, MI.
- 38. Park, S., X. Jin, and **Z. Zhou** (2017). "Removal of bacteria and DNA from wastewater using electrochemical multi-walled carbon nanotube filters." *23rd Annual Environmental Engineering & Science Symposium at University of Illinois*, Champaign, IL.

39. Padhiary, M., K. Walczak, N. Goyal, Z. Sun, and **Z. Zhou** (2017). "Efficient biofuel production through microbial electrosynthesis." *23rd Annual Environmental Engineering & Science Symposium at University of Illinois*, Champaign, IL.

- 40. Padhiary, M., Z. Sun, and **Z. Zhou** (2017). "Microbial electrosynthesis of biofuels using mixture culture in activated sludge." *Association of Environmental Engineering and Science Professors Research and Education Conference*, Ann Arbor, MI.
- 41. Nguyen, N.-A., T. Sun, Z. Sun, and **Z. Zhou** (2017). "Acetate production through microbial electrosynthesis as an intermediate for biofuel production." *23rd Annual Environmental Engineering & Science Symposium at University of Illinois*, Champaign, IL.
- 42. He, H. and **Z. Zhou** (2017). "Removal of recalcitrant compounds with a flow through electro-Fenton carbon nanotube filters." *23rd Annual Environmental Engineering & Science Symposium at University of Illinois*, Champaign, IL.
- 43. He, H. and **Z. Zhou** (2017). "Efficient wastewater treatment in a carbon nanotube-based electro-Fenton system." *Association of Environmental Engineering and Science Professors Research and Education Conference*, Ann Arbor, MI.
- 44. Chen, R., M. Wang, Z. Sun, P. Sol, and **Z. Zhou** (2017). "Electrochemical treatment to remove chemical contaminants in landfill leachate." *Association of Environmental Engineering and Science Professors Research and Education Conference*, Ann Arbor, MI.
- 45. Wang, M., M. Scott, M. Jacobs, and **Z. Zhou** (2016). "Microbial source tracking of fecal bacteria in surface waters in Gunpower Creek watershed in Kentucky." *American Society for Microbiology 116th General Meeting*, Boston, MA.
- 46. Wang, M., M.S. Esfandarani, A. Whelton, and **Z. Zhou** (2016). "Effects of water temperature and TOC leached from PEX pipes on the occurrence of bacteria in household water distribution systems." *American Society for Microbiology 116th General Meeting*, Boston, MA.
- 47. Nguyen, N.-A., Z. Sun, and **Z. Zhou** (2016). "Efficient biofuel production through microbial electrosynthesis." *Purdue University Undergraduate Research and Poster Symposium*, West Lafayette, IN.
- 48. Yi, X., Q. Wei, and **Z. Zhou** (2015). "Occurrence of erythromycin resistance methylase (*erm*) genes driven by environmental antibiotics in urban soils." *Critical Zone Science, Sustainability and Services in a Changing World*, West Lafayette, IN.
- 49. Yi, X., C. Lim, J.L.E. Ong, M. Wang, and **Z. Zhou** (2015). "Correlation between trace levels of antibiotics and phenotypic antibiotic resistance in urban environmental samples." *Association of Environmental Engineering and Science Professors Research and Education Conference*, New Haven, CT.
- 50. Wang, T. and **Z. Zhou** (2015). "Effects of selective pressure of erythromycin on the development of antibiotic resistance in *E. coli*." *American Society for Microbiology 115th General Meeting*, New Orleans, LA.
- 51. Padhiary, M., K. Walczak, N. Goyal, Z. Sun, and **Z. Zhou** (2015). "Bioeletrocatalyzed reduction of CO<sub>2</sub> to higher alcohols and acids using mixed cultures of acetogens and acetate-utilizing *Clostridium* strains." *Association of Environmental Engineering and Science Professors Research and Education Conference*, New Haven, CT.
- 52. Liu, Y., J. Xie, **Z. Zhou**, and C.N. Ong (2015). "Electrochemical filter technology in water treatment." 8th International Conference on Materials for Advanced Technologies, Singapore.
- 53. Liu, Y., Q. Xia, Y. Kong, J. Xie, C.N. Ong, C. Vecitis, S.A. Jame, T. Wu, and **Z. Zhou** (2015). "Improvement of electrochemical wastewater treatment with carbon nanotube filters coupled with *in situ* generated H<sub>2</sub>O<sub>2</sub>." *Association of Environmental Engineering and Science Professors Research and Education Conference*, New Haven, CT.

54. Goyal, N., I.A. Karimi, and **Z. Zhou** (2015). "Influence of nitrogen limitation on methanogenesis and growth in *M. maripaludis*." *13th International Conference on Carbon Dioxide Utilization*, Singapore.

- 55. E. Kallmyer, N., Z. Sun, K. Harris, Z. Zhou, and E.R. Blatchley III (2015). "Recovery of nutrients from animal and human wastes." *Purdue University Summer Fellowship Research Fellowship Symposium*, West Lafayette, IN.
- 56. Delgadillo Ordoñez, N., L. Nies, R. Turco, and Z. Zhou (2015). "Effects of Lithium on anaerobic microbial communities of sludge, an exploratory study." *Undergraduate Research Experience Purdue-Colombia Research Symposium*, West Lafayette.
- 57. Goyal, N., I.A. Karimi, and **Z. Zhou** (2014). "Genome based metabolic flux analysis (MFA) of *Methanococcus maripaludis* for improved methane productivity." *American Institute of Chemical Engineers Annual Meeting*, Atlanta, GA.
- 58. Zhang, Y., X. Li, D. Snow, D. Parker, and **Z. Zhou** (2013). "Intracellular and extracellular antimicrobial resistance genes in livestock manure management structures." *American Society for Microbiology 113th General Meeting*, Denver, CO.
- 59. Yi, X., W. Cheng, Q. Wei, and **Z. Zhou** (2013). "Correlation of metal concentrations and *erm* genes in urban soils." *American Society for Microbiology 113th General Meeting*, Denver, CO.
- 60. Yi, X., W. Cheng, Q. Wei, and **Z. Zhou** (2013). "Evaluation of antimicrobial resistance in urban environments in Singapore." *Microbial Ecology and Water Engineering Conference*, Ann Arbor, MI.
- 61. Wu, C., S. Nagarajan, H. Jing, and **Z. Zhou** (2013). "Correlations of methanogenic activities and environmental parameters in tropical mangrove sediments." *American Society for Microbiology 113th General Meeting*, Denver, CO.
- 62. Wei, Q., X. Yi, W. Cheng, and **Z. Zhou** (2013). "Occurrence and diversity of erythromycin resistance genes (*erm*) in urban soils." *American Society for Microbiology 113th General Meeting*, Denver, CO.
- 63. Wang, T., T.M. Lim, X. Yi, and **Z. Zhou** (2013). "Microbial regrowth in soils under selective pressure of various levels of erythromycin." *American Society for Microbiology 113th General Meeting*, Denver, CO.
- 64. Padhiary, M., S. Nagarajan, and **Z. Zhou** (2013). "Evaluation of efficiencies of microbial electrochemical systems (MXCs)." *American Society for Microbiology 113th General Meeting*, Denver, CO.
- 65. Nagarajan, S., C. Wu, H. Jing, S.K. Chou, and **Z. Zhou** (2013). "Diversity and abundance of ammonia-oxidizing Archaea in Singapore mangrove sediments." *American Society for Microbiology 113th General Meeting*, Denver, CO.
- 66. Liu, Y. and **Z. Zhou** (2013). "Development of a highly efficient photocatalytic fuel cell for simultaneous wastewater treatment and energy recovery of emerging contaminants." *International Water Association Water Reuse Conference*, Windhoek, Namibia.
- 67. Jing, H., X. Kong, and **Z. Zhou** (2013). "Diversity and antibiotic resistance of *Streptomyces* in tropical soils." *American Society for Microbiology 113th General Meeting*, Denver, CO.
- 68. Goyal, N., H. Widiastuti, I.A. Karimi, and **Z. Zhou** (2013). "Genome-scale metabolic network reconstruction and in silico analysis of Methanococcus maripaludis." *23rd European Symposium on Computer Aided Process Engineering*, Lappeenranta, Finland.
- 69. Chua, S.L., S. Nagarajan, S.K. Chou, M. Padhiary, and **Z. Zhou** (2013). "Evaluation of hydrogen production rates and uptake rates for microbial electrosynthesis of methane." *American Society for Microbiology 113th General Meeting*, Denver, CO.

70. Cheng, W., X. Yi, Q. Wei, and **Z. Zhou** (2013). "Correlation of antibiotic resistance and heavy metals in urban environmental soil samples." *American Society for Microbiology 113th General Meeting*, Denver, CO.

- 71. Yi, X., C. Lin, J.L.E. Ong, and **Z. Zhou** (2012). "Comparison of MLS<sub>B</sub> antibiotic resistance among Gram-positive and Gram-negative bacteria in urban environments." *American Society for Microbiology 112th General Meeting*, San Francisco, CA.
- 72. Yi, X., C. Lin, J.L.E. Ong, and **Z. Zhou** (2012). "Environmental risk assessment of antimicrobial resistance in an urban environment." 21st Korea Advanced Institute of Science & Technology-Kyoto University-Nanyang Technological University-National University of Singapore Symposium, Kuala Lumpur, Malaysia.
- 73. Nagarajan, S., S.K. Chou, C. Wu, S. Cao, and **Z. Zhou** (2012). "Biomethane production potentials by methanogens for microbial electrosynthesis." *American Society for Microbiology* 112th General Meeting, San Francisco, CA.
- 74. Nagarajan, S., S.K. Chou, S. Cao, C. Wu, and **Z. Zhou** (2012). "An updated comprehensive techno-economic analysis of algae biodiesel." *5th International Conference on Industrial Bioprocesses*, Taipei, Taiwan.
- 75. Lin, C., X. Yi, X. Kong, J.L.E. Ong, X.Y.C. Chew, T. Wang, and **Z. Zhou** (2012). "Effects of human population densities on antimicrobial resistance in an urban environment." *Singapore International Water Weeks*, Singapore.
- 76. Lin, C., X. Kong, X. Yi, J.L.E. Ong, X.Y.C. Chew, T. Wang, and **Z. Zhou** (2012). "Correlation of anthropogenic pressure and antimicrobial resistance in urban environments." *American Society for Microbiology 112th General Meeting*, San Francisco, CA.
- 77. Kong, X., C. Lin, X. Yi, X.Y.C. Chew, and **Z. Zhou** (2012). "Quantification of minimum inhibition concentration and resistance levels of antimicrobials among *Streptomyces* in environmental samples." *American Society for Microbiology 112th General Meeting*, San Francisco, CA.
- 78. Auw, J.Q.M., X. Yi, and **Z. Zhou** (2012). "Comparison of double-labeled and single-labeled oligonucleotide probes for *in situ* quantification of *Streptomyces*." *American Society for Microbiology* 112th General Meeting, San Francisco, CA.
- 79. Amir, M.S.B., C. Wu, S. Nagarajan, S. Cao, X. Yi, and **Z. Zhou** (2012). "Development of novel 16S rRNA oligonucleotide probes to quantify methanogens." *American Society for Microbiology 112th General Meeting*, San Francisco, CA.
- 80. Amir, M.S.B., J.Q.M. Auw, S. Nagarajan, X. Yi, C. Wu, S. Cao, and **Z. Zhou** (2012). "Development of fluorescence *in situ* hybridization probes for the quantification of Archaea." *Singapore International Water Weeks*, Singapore.
- 81. **Zhou, Z.** and X.W. Wong (2011). "Low impact development techniques for sustainable environmental and water resources management." 4th American Society of Civil Engineering-Environmental & Water Resources Institute International Perspective on Water Resources & the Environment, Singapore.
- 82. Yi, X., A. Christina, and **Z. Zhou** (2011). "Evaluation and design of fluorescence *in situ* hybridization probes for the quantification of *Streptomyces*." *Singapore International Water Weeks*, Singapore.
- 83. Ong, J.L.E., X. Yi, X.Y.C. Chew, T. Wang, and **Z. Zhou** (2011). "Evaluation of antimicrobial resistance at environmental samples in Singapore." *Singapore International Water Weeks*, Singapore.
- 84. Christina, A., **Z. Zhou**, X. Yi, and T. Wang (2011). "Development of a 16S rRNA-targeted probe for *Streptomyces*." *American Society for Microbiology 111th General Meeting*, New Orleans, LA.

85. Chew, X.Y.C., X. Yi, J.L.E. Ong, T. Wang, and **Z. Zhou** (2011). "Antimicrobial resistance among *Streptomyces* in natural soil samples." *American Society for Microbiology 111th General Meeting*, New Orleans, LA.

- 86. **Zhou, Z.,** A. Salveson, K. Bourgeous, and N. Fontaine (2010). "How different is different? The traps and pitfalls of applying statistics on system performance evaluation." 83rd Annual Water Environment Federation Technical Exhibition and Conference, New Orleans, LA.
- 87. **Zhou, Z.**, L. Raskin, and J. Zilles (2010). "Optimization of cluster analysis for FISH image analysis." *American Society for Microbiology 110th General Meeting*, San Diego, CA.
- 88. Rauch-Williams, T., A. Salveson, B. Narayanan, **Z. Zhou**, J. Drewes, E. Dickenson, C. Higgins, K. Hyland, S. Snyder, B. Vanderford, D. Gerrity, M. Benotti, E. Snyder, and D. Drury (2010). "Trace organic compounds removal during wastewater treatment selection of a suite of indicator TOrC." 83rd Annual Water Environment Federation Technical Exhibition and Conference, New Orleans, LA.
- 89. **Zhou, Z.**, A. Salveson, B. Finney, R. Gearheart, and M. Burke (2009). "Cost capacity analysis and WAWTTAR model for small-scale water reuse." *24th Annual WateReuse Symposium*, Seattle, WA.
- 90. **Zhou, Z.**, A. Salveson, B. Finney, R. Gearheart, and M. Burke (2009). "Cost-effective technologies for small-scale water reuse." *California Water Environment Association Annual Conference*, Palm Springs, CA.
- 91. **Zhou, Z.**, A. Salveson, B. Finney, R. Gearheart, and M. Burke (2009). "Cost-effective technologies for small-scale water reclamation plants." *82nd Annual Water Environment Federation Technical Exhibition and Conference*, Orlando, FL.
- 92. **Zhou, Z.**, A. Salveson, B. Finney, and M. Burke (2009). "Cost-effective technologies for small-scale water reclamation plants (WRF 06-008)." *13th Annual Water Reuse & Desalination Research Conference*, Huntington Beach, CA.
- 93. **Zhou, Z.**, A. Salveson, J. Brown, J. Lopez, D. Sullivan, H. Breitenkam, R. Cisterna, E. Vadiveloo, R. Harris, S. Snyder, E. Snyder, and J. Drewes (2009). "Aquatic toxicology and removal of microconstituents through membrane processes." *American Water Works Association 10th Biennial Membrane Technology Conference and Exposition*, Memphis, TN.
- 94. **Zhou, Z.**, A. Salveson, J. Brown, J. Lopez, R. Cisterna, E. Vadiveloo, and H. Breitenkam (2009). "Advanced membrane treatment of wastewater and resulting aquatic impact of microconstituents in receiving waters." *California Water Environment Association Annual Conference*, Palm Springs, CA.
- 95. **Zhou, Z.**, A. Salveson, J. Brown, J. Lopez, R. Cisterna, E. Vadiveloo, and H. Breitenkam (2009). "Treatment of endocrine disruptors and pharmaceuticals through membrane processes." *American Membrane Technology Association 2009 Conference & Exposition*, Austin, TX.
- 96. **Zhou, Z.**, A. Salveson, J. Brown, J. Lopez, R. Cisterna, E. Vadiveloo, and H. Breitenkam (2009). "Evaluation of endocrine disrupting potentials in membrane effluents using aquatic toxicity tests and fish bioassays." *American Water Works Association Research Symposium*, Austin, TX.
- 97. **Zhou, Z.**, A. Salveson, J. Brown, G. Juby, and S. Li (2009). "Pathogen and microconstituent removal using a non-biological treatment process." *WateReuse California Annual Conference*, San Francisco, CA.
- 98. Vadiveloo, E., R. Cisterna, R. Harris, H. Breitenkam, T. Greiner, P. Pitt, P. Vinci, and **Z. Zhou** (2009). "Identifying the feasibility of canal recharge for indirect potable reuse: the Plantation experience." *Florida Water Resources Conference*, Palm Beach County, FL.
- 99. Vadiveloo, E., R. Cisterna, H. Breitenkam, J. Lopez, R. Harris, T. Greiner, P. Pitt, K. Alexander, R. Latimer, P. Vinci, **Z. Zhou**, and A. Salveson (2009). "Identifying the feasibility

- of canal recharge for indirect potable reuse: the Plantation experience." 82nd Annual Water Environment Federation Technical Exhibition and Conference, Orlando, FL.
- 100. Alexander, K., R. Cisterna, E. Vadiveloo, A. Salveson, and **Z. Zhou** (2009). "Quantifying emerging contaminant removal with advanced water treatment in Arizona and Florida." *13th Annual Water Reuse & Desalination Research Conference*, Huntington Beach, CA.
- 101. **Zhou, Z.**, A. Salveson, B. Finney, R. Gearheart, and M. Burke (2008). "Low-cost treatment technologies for small-scale water reclamation plants (WateReuse Foundation 06-008)." *23rd Annual WateReuse Symposium*, Dallas, TX.
- 102. **Zhou, Z.**, A. Salveson, J. Brown, J. Lopez, D. Sullivan, H. Breitenkam, R. Cisterna, V. Enrique, R. Harris, S. Snyder, E. Snyder, and J. Drewes (2008). "Removal of microconstituents in an advanced water treatment facility and evaluation of potential water quality impact of discharged effluent to surface canals and groundwater." 81st Annual Water Environment Federation Technical Exhibition and Conference, Chicago, IL.
- 103. **Zhou, Z.**, A. Salveson, J. Brown, J. Lopez, R. Cisterna, E. Vadiveloo, and H. Breitenkam (2008). "Water quality through advanced wastewater treatment (AWT) facilities and recharge modeling (WaterReuse Research Foundation 06-019)." *23rd Annual WateReuse Symposium*, Dallas, TX.
- 104. **Zhou, Z.**, A. Salveson, J. Brown, and J. Lopez (2008). "Water quality through advanced wastewater treatment (AWT) facilities and recharge modeling (WateReuse Research Foundation 06-019)." *California Section Annual Conference*, Newport Beach, CA.
- 105. Poust, S., A. Salveson, **Z. Zhou**, J. Lopez, D. Sullivan, H. Breitenkam, R. Cisterna, E. Vadiveloo, R. Harris, J. Brown, S. Jain, M. Loinaz, and H. Joseph (2008). "Trace organics contaminant monitoring: removal, fate, and transport." *Water Quality Technology Conference and Exposition*, Cincinnati, OH.
- 106. Poust, S., A. Salveson, **Z. Zhou**, J. Lopez, D. Sullivan, H. Breitenkam, R. Cisterna, E. Vadiveloo, R. Harris, J. Brown, and S. Jain (2008). "Trace organics and advanced wastewater treatment plants: removal, transport, and toxicology." *Florida Water Resources Conference*, Tampa, FL.
- 107. **Zhou, Z.**, M. Robert, L. Raskin, and J. Zilles (2007). "Cumulative effects of land application of manure on levels of antimicrobials and antimicrobial resistant bacteria in soils." *American Society for Microbiology 107th General Meeting*, Toronto, Ontario, Canada.
- 108. Greeley, T., **Z. Zhou**, and J. Zilles (2007). "Comparing abundance of *Candidatus* Accumulibacter phosphatis and performance in a full-scale wastewater treatment plant's transition to enhanced biological phosphorus removal." *American Society for Microbiology 107th General Meeting*, Toronto, Ontario, Canada.
- 109. **Zhou, Z.**, M. Robert, L. Raskin, and J. Zilles (2006). "Quantification of MLS<sub>B</sub> antimicrobial resistance in soil amended with swine wastes." *American Society for Microbiology 106th General Meeting*, Orlando, FL.
- 110. **Zhou, Z.**, M.N. Pons, L. Raskin, and J. Zilles (2005). "Automated image analysis for quantitative fluorescence *in situ* hybridization in environmental samples." *American Society for Microbiology 105th General Meeting*, Atlanta, GA.
- 111. **Zhou, Z.**, A. Jindal, M. Robert, L. Raskin, and J. Zilles (2005). "MLS<sub>B</sub> resistance levels vary greatly for different populations in swine waste samples." *International Union of Microbiological Societies Meeting*, San Francisco, CA.
- 112. **Zhou, Z.**, A. Jindal, M. Wagoner, L. Raskin, and J. Zilles (2004). "FISH analysis of MLS<sub>B</sub> antimicrobial resistance in swine waste." *American Society for Microbiology 104th General Meeting*, New Orleans, LA.

113. Yang, L., Y. Gu, and Z. Zhou (2001). "Research on biological regeneration of organoclay." 5th National Environmental Microbiological Symposium of Chinese Society of Microbiology, Nanjing, Jiangsu, China.

- 114. Yang, L., Y. Gu, and **Z. Zhou** (2001). "Investigation of high efficiency benzene degrading microbe." 5th National Environmental Microbiological Symposium of Chinese Society of Microbiology, Nanjing, Jiangsu, China.
- 115. **Zhou, Z.** and M. Zhang (1999). "Use of protozoan (*Tetrahymena pyriformis*) bioassay to evaluate the toxicity and mutation of pesticides." *Biennial Conference of Nanjing Society of Microbiology*, Nanjing, Jiangsu, China.

#### **TECHNICAL REPORTS** (4)

- 1. **Zhou, Z.** (2022). "Emerging contaminant removal and microbial growth in membrane filtration and activated carbon point-of-use systems."
- 2. Ji, Y., B. McCullouch, and **Z. Zhou** (2021). "Evaluation of our current and other available anti-Icing/de-Icing products under controlled environmental conditions to test effectiveness."
- 3. Salveson, A., **Z. Zhou**, B. Finney, M. Burke, and J.C. Ly (2010). "Low-cost technologies for small-scale water reclamation plants." Alexandria, VA, USA.
- 4. Salveson, A., J. Brown, and **Z. Zhou** (2010). "Monitoring microconstituents in an advanced wastewater treatment (AWT) facility and modeling discharge of reclaimed water to surface canals for indirect potable use." Alexandria, VA, USA.

**INVITED PRESENTATIONS** (35)

11/2023	Antibiotic resistance emergence, persistence, and treatment-11.06.2023	King Abdullah University of Science and Technology	Online
06/2023	Environmental Biotechnology Research at Purdue	Purdue Great Lakes Agencies Northwest Indiana Meeting	Portage, IN
04/2023	PFAS treatability by POU carbon and RO and Test Retention of PFAS on Spent Treatment Media	2023 Water Quality Association Convention & Exposition	Las Vegas, NV
04/2023	WQRF Research session	WQA PFAS Symposium	Las Vegas, NV
03/2023	Emerging Contaminant Removal and Microbial Growth in Membrane		South Bend, IN
	Filtration and Activated Carbon Point-of-use Devices	Professors Research and Education Distinguished Lecture Conference	
10/2022	Emerging contaminant removal and microbial growth in membrane filtration and activated carbon point-of-use devices	Water Quality Research Foundation - In the Know Webinar Series	Online
04/2022	Treatment and reuse of fertigation water	AefoFarms	Online
07/2021	Emerging contaminant removal and microbial growth in membrane filtration and activated carbon point-of-use systems	2021 Water Quality Association Convention & Exposition	Las Vegas, NV

11/2019 11/2019	Removal of emerging pollutants Nutrient control with wastewater	International Scientific Congress on multiple barrier system for	Cusco, Peru
11/2019	treatment techniques Electrochemical filtration of antibiotics and antibiotic resistance	safe and healthy water preservation, Universidad Nacional de San Antonio Abad	
11/2019	genes Eutrophication and control of microbial growth	del Cusco	
11/2019	Membrane filtration including electrochemical carbon nanotubes and graphene filters		
11/2019	Elimination of pathogenic protozoa		
11/2019	Point of use water filtration systems		
11/2019			
11/2019	Techniques to control		
11/2019	eutrophication Nanotechnology in the treatment of drinking water	-	
11/2018	Antibiotic resistance in urban and natural environments	University of Notre Dame	South Bend, IN
10/2018	Water safety	Purdue Chapter of Engineers Without Borders	West Lafayette, IN
11/2017	Water	Guest lecturer in ENGR 103 (Global Engineering Practice & Design), Purdue University	West Lafayette, IN
09/2017	Electrochemical carbon nanotube filters for water and wastewater	The 20th Annual Indiana Pollution Prevention	Indianapolis, IN
11/2016	Water Water	Conference and Trade Show Guest lecturer in Global Engineering Practice & Design,	West Lafayette, IN
10/2016	Antibiotic resistance in urban and natural environments	Purdue University Department of Biological Sciences, Purdue University,	Calumet, IN
06/2016	Antibiotic resistance in urban and natural environments	International Symposium of One Health: the Role of Microbe	Boston, MA
03/2016	Antibiotic resistance	Environmental Science Club, Purdue University	West Lafayette, IN
09/2014	Antimicrobials and antimicrobial resistance in natural and urban	Purdue Water Community Brown Bag Lunch Seminar	West Lafayette, IN
08/2013	environments Renewable methane production from carbon dioxide and water in a microbial electrosynthesis cell	Series Technical session "Sustainable Energy from Biomass and Wastewater" in the 15th Asian	Singapore
06/2012	Electrode-driven anaerobic respiration for improved biofuel production	Chemical Congress City University of Hong Kong– NUS Joint Seminar	Singapore

04/2012	Development of molecular biology techniques for the risk assessment of antibiotic resistance in environmental samples	Low-Carbon Forum of Urban and Regional Development, Peking University,	Shenzhen, China
02/2012	Evaluation of antimicrobial resistance at environmental samples	NUS-Peking University Scientific Workshop	Singapore
02/2012	Development of molecular microbiology tools for water quality monitoring	Singapore Ministry of Home	Singapore
05/2011	Microbial conversion of CO <sub>2</sub> to biofuel without biomass processing	NUS Industry Liaison Office– Siemens Joint Seminar	Singapore
11/2011	Microbial conversion of CO <sub>2</sub> to biofuel	Singapore Economic Development Board–NUS Meeting on CO <sub>2</sub> Conversion and Utilization Program,	Singapore
06/2010	Environmental sustainability: a microbiologist's perspective	University of Michigan–NUS Joint Seminar	Singapore
06/2010	Environmental risk assessment of macrolide-lincosamide-streptogramin B antimicrobial resistance	Michigan State University— NUS–Singapore Public Utilities Board Joint Seminar	Singapore
03/2010	Advanced membrane treatment of wastewater and resulting aquatic impact of microconstituents in receiving waters	Singapore Public Utilities Board	Singapore

## **VISITING SCHOLARS HOSTED** (5)

2022	Alam Zeb Khan	Degradation of pulp and paper wastewater	Quaid-I-Azam
		with fungal strains	University
2018	Associate	Removal of pharmaceuticals and personal	Nanjing Forestry
	Professor Lei	care products (PPCPs) in the	University, China
	Chen	electrochemical carbon nanomaterial filter	
2017-2019	Associate	Development of Energy-efficient	Wuhan University of
	Professor Bolin	Wastewater Treatment Technologies	Technology, China
	Li		
2015-2016	Associate	Development of Nanomaterials for	Hohai University,
	Professor Cheng	Wastewater Treatment	China
	Liu		
2014-2015	Associate	Development of Nanomaterials for	Nanjing Forestry
	Professor	Wastewater Treatment	University, China
	Shaohua Lin		•

# **RESEARCH PERSONNEL SUPERVISED** (118)

### Postdocs Mentored (5)

2013–2014	Dr. Laurence	Rapid and accurate quantification of antibiotic	NUS
	Glass-Haller	resistant bacteria and quantitative risk assessment	
		for water security	

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2013–2014	Dr. Thai Hoang	Rapid and accurate quantification of antibiotic	NUS
	Le	resistant bacteria and quantitative risk assessment for water security	
2013–2014	Dr. Yanbiao Liu	Development of electrochemical carbon nanotube filters to remove off-flavor compounds	NUS
2012–2013	Dr. Hongmei Jing	Photosynthesis through electrode-driven anaerobic Respiration	NUS
2011	Dr. Yiling Koh	Photosynthesis through electrode-driven anaerobic Respiration	NUS
Research En	gineers Mentored	<b>d</b> (3)	
2014	Tianren Wang	Rapid and accurate quantification of antibiotic resistant bacteria and quantitative risk assessment for water security	NUS
2013–2014	Vaishnavi Sivachidambaram	Rapid and accurate quantification of antibiotic resistant bacteria and quantitative risk assessment for water security	NUS
2011–2013	Sanjay Nagarajan	Photoelectrochemical water splitting for the production of value-added chemicals	NUS
Ph.D. Comn	nittees Chaired (1	1)	
2023–present	•	Biological wastewater treatment	Purdue
-	Wangyu Hui	Electrochemical filtration	Purdue
-	- ·	Wastewater treatment	Purdue
2021–present		Point-of-use water filtration systems	Purdue
2020-present	Sharon Hughes (co-chaired)	Techno-economic analysis of biofuel	Purdue
2016–present	•	Development and persistence of antibiotic resistant bacteria	Purdue
2014–2019	Zhe Sun	Application of photochemical and biological approaches for cost-effective algal biofuel production	Purdue
2014–2019	Mian Wang	Development and removal of antibiotic resistance genes	Purdue
2011–2016	Chen Wu (co- chaired)	Molecular microbiology for improved biofuel production	NUS
2011–2016	Nishu Goyal (co-chaired)	Biochemical Conversion of Carbon Dioxide	NUS
2010–2015	Xinzhu Yi	Evaluation of antibiotic resistance at urban environments	NUS
Ph.D. Comn	nittees Chaired - l	Incomplete (2)	
2014–2016	Sadia Jame	Electrochemical removal of chemical and biological contaminants with nanomaterials	Purdue
2012–2017	Mrutyunjay Padhiary	Electrosynthesis of biofuels from carbon dioxide	NUS

Master Committees Chaired (thesis-based) (13)				
2024-present	Haozhe Zheng	PFAS sensors	Purdue	
2023-present	Nathaniel B.	Algal biofuel	Purdue	
	Bone			
2021-2023	Wanyue Hui	Manganese removal by activated carbon filters	Purdue	
2021-2023	Rui Li	Arsenite removal by reverse osmosis membranes	Purdue	
2021-2023	Jonathan Fan	Electrochemical defluoridation	Purdue	
2019–2021	Hsin-Yin Yu	Emerging contaminant removal in point-of-use devices	Purdue	
2019–2021	Shreya Gupta	Emerging contaminant removal in point-of-use devices	Purdue	
2016-2018	Ran Chen	Antibiotic resistance in environmental samples	Purdue	
2015–2017	Sol Park	DNA removal in carbon nano-tube filters	Purdue	
2013–2014	Qing Xia	Phenol removal with electrochemical carbon nanotube filters coupled with <i>in situ</i> generated H <sub>2</sub> O <sub>2</sub>	NUS	
2013–2014	Xiao Jin	Research on electrochemical carbon nanotube filters for bacterial and DNA removal	NUS	
2012–2014	Tianren Wang	Evaluation of microbial regrowth after treatment of disinfectants or antimicrobials	NUS	
2011–2013	Subhashini	Utilization of landfill gases as renewable source of	NUS	
	Kashinath	energy in India		
		C.		
<b>Master Com</b>	mittees Chaired (	(non-thesis) (4)		
2021-2023	Mohammad Hass	an Chaudhry (co-chaired)	Purdue	
2018-2019	Xiaoyi Peng		Purdue	
2017-2019	Yi Ji		Purdue	
2017–2019	Sacheev Mandhle		Purdue	
2015–2017	Huanqi He		Purdue	
Graduate In	dependent Study	Module Student (7)		
2023	Mohd Bilal	· ·		
	III DIII	Water quality	Purdue	
	Shadab	water quality	Purdue	
2023	Shadab	Data science in biological wastewater treatment	Purdue Purdue	
2023 2022–2023	Shadab Vatsal Virbhadra Parekh Mohammad	Data science in biological wastewater treatment  Measurement of Arsenite and Arsenate in		
	Shadab Vatsal Virbhadra Parekh	Data science in biological wastewater treatment  Measurement of Arsenite and Arsenate in	Purdue	
2022–2023	Shadab Vatsal Virbhadra Parekh Mohammad Hassan Chaudhry Hao Wu	Data science in biological wastewater treatment  Measurement of Arsenite and Arsenate in Drinking Water Electrochemical Defluorination	Purdue Purdue Purdue	
2022–2023 2022	Shadab Vatsal Virbhadra Parekh Mohammad Hassan Chaudhry Hao Wu Lingjun Xu	Data science in biological wastewater treatment  Measurement of Arsenite and Arsenate in Drinking Water Electrochemical Defluorination Electro-Fenton treatment of organic contaminants	Purdue Purdue Purdue	
2022–2023 2022 2019–2021 2018–2019	Shadab Vatsal Virbhadra Parekh Mohammad Hassan Chaudhry Hao Wu Lingjun Xu Yiming Yang	Data science in biological wastewater treatment  Measurement of Arsenite and Arsenate in Drinking Water Electrochemical Defluorination	Purdue Purdue Purdue Purdue Purdue Purdue	
2022–2023 2022 2019–2021	Shadab Vatsal Virbhadra Parekh Mohammad Hassan Chaudhry Hao Wu Lingjun Xu Yiming Yang Wei Liu	Data science in biological wastewater treatment  Measurement of Arsenite and Arsenate in Drinking Water Electrochemical Defluorination Electro-Fenton treatment of organic contaminants Improvement of AOC measurements Electrochemical water treatment	Purdue Purdue Purdue Purdue Purdue Purdue Purdue	
2022–2023 2022 2019–2021 2018–2019 2016–2017	Shadab Vatsal Virbhadra Parekh Mohammad Hassan Chaudhry Hao Wu Lingjun Xu Yiming Yang	Data science in biological wastewater treatment  Measurement of Arsenite and Arsenate in Drinking Water Electrochemical Defluorination Electro-Fenton treatment of organic contaminants Improvement of AOC measurements	Purdue Purdue Purdue Purdue Purdue Purdue	
2022–2023 2022 2019–2021 2018–2019 2016–2017 2015–2016	Shadab Vatsal Virbhadra Parekh Mohammad Hassan Chaudhry Hao Wu Lingjun Xu Yiming Yang Wei Liu Huanqi He	Data science in biological wastewater treatment  Measurement of Arsenite and Arsenate in Drinking Water Electrochemical Defluorination Electro-Fenton treatment of organic contaminants Improvement of AOC measurements Electrochemical water treatment Electron-Fenton treatment of chemical contaminants	Purdue Purdue Purdue Purdue Purdue Purdue Purdue	
2022–2023 2022 2019–2021 2018–2019 2016–2017 2015–2016 <u>Undergradu</u>	Shadab Vatsal Virbhadra Parekh Mohammad Hassan Chaudhry Hao Wu Lingjun Xu Yiming Yang Wei Liu Huanqi He	Data science in biological wastewater treatment  Measurement of Arsenite and Arsenate in Drinking Water Electrochemical Defluorination Electro-Fenton treatment of organic contaminants Improvement of AOC measurements Electrochemical water treatment Electron-Fenton treatment of chemical contaminants  Study Module Students (30)	Purdue Purdue Purdue Purdue Purdue Purdue Purdue Purdue	
2022–2023 2022 2019–2021 2018–2019 2016–2017 2015–2016	Shadab Vatsal Virbhadra Parekh Mohammad Hassan Chaudhry Hao Wu Lingjun Xu Yiming Yang Wei Liu Huanqi He	Data science in biological wastewater treatment  Measurement of Arsenite and Arsenate in Drinking Water Electrochemical Defluorination Electro-Fenton treatment of organic contaminants Improvement of AOC measurements Electrochemical water treatment Electron-Fenton treatment of chemical contaminants	Purdue Purdue Purdue Purdue Purdue Purdue Purdue	

2021–2022	Ashley Lynn	TDS measurement in POU systems	EEE, Purdue
	Sanchez		
2021 2022	Gonzalez	AOC DOLL	EEE D 1
2021–2022	Leyan Peng	AOC measurement in POU systems	EEE, Purdue
2021	Shreya Mullangi Preethi Goli	Algal biofuel	CE, Purdue
2021 2020–2021	Sungmin Hong	AOC measurement in POU systems	CS, Purdue
2020–2021		Water quality measurement Point-of-use filtration systems	EEE, Purdue EEE, Purdue
	Benjamin E. Jolkovsky	·	ŕ
2020–2021	Chance Lehman	Algal virus for biofuel production	EEE, Purdue
2020–2021	Hannah Congleton	AOC measurement in POU system	EEE, Purdue
2020-2021	Sophie	Microbial growth in POU systems	EEE, Purdue
	Mendelson	,	,
2020-2021	Victoria Rose	PFAS removal in POU systems	EEE, Purdue
	Pompeo	·	
2019-2020	Charles A.	PFAS treatment in POU filters	EEE, Purdue
	Graham		
2019–2020	Yifei Bi	Metal removal in POU systems	EEE, Purdue
2017–2018	Benjamin M	Electrochemical water treatment	EEE, Purdue
	Stryker		
2017–2018	Shujun Zhou	Electrochemical water treatment	EEE, Purdue
2017–2018	Songhao Wu	Efficient biofuel production	EEE, Purdue
2016–2017	Tianlong Sun	Microbial electrosynthesis for biofuel production	EEE, Purdue
2016–2017	Jingfei Deng	Antibiotic resistant bacteria in the environment	EEE, Purdue
2015–2017	Luna Nguyen	Efficient production of biofuels from carbon dioxide	EEE, Purdue
2015–2016	Mingyu Zhang	Development of CNT electrochemical filter for water purification	EEE, Purdue
2015-2016	Leslie Yoo	Enhanced biofuel production from carbon dioxide	e EEE, Purdue
2014-2015	Emily Traxler	Development and persistence of antibiotic	EEE, Purdue
	,	resistance	,
2014-2015	Neil Perry	Enhanced biofuel production from carbon dioxide	e EEE, Purdue
2014–2015	Ryan N Loveless	Development of graphene electrochemical filter	EEE, Purdue
		for water purification	
2014-2015	Haitian Liu	Enhanced biofuel production from carbon dioxide	e EEE, Purdue
2014–2015	Yvonne Shi	Development of graphene electrochemical filter for water purification	EEE, Purdue
2014–2015	Heyi Wang	Development of graphene electrochemical filter	EEE, Purdue
	- ,	for water purification	,
2014–2015	Maithilee Das	Enhanced biofuel production from carbon dioxide	e EEE, Purdue
2011–2012	Zhe Zhang	Bioremediation in marine oil spill	CE, NUS
	C		
<u>Undergradu</u>	ate Research Ass	istants (8)	
2023–2024	Oliver Shi	Thermodynamic analysis of viral infection of algae	Purdue
2019–2020	Kendall Cooper Schwarz	Enhanced biological phosphorus removal	Purdue

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2016	Mustafa Reyad	Resource recovery and reuse from human urine	Purdue
2015	Ghuneim Nathalia	Effects of lithium on the performance of	Purdue
2013	Delgadillo	anaerobic digesters	ruidue
	Ordoñez (co-	anacrobic digesters	
	supervised)		
2013–2014	Wei Liang Tay	Design of FISH Probes to quantify linezolid	NUS
_010 _011	,, et 2111118 1 ti)	Resistance	1,00
2012–2013	Qing Wei	Genetic diversity of erythromycin resistance genes	NUS
	• 0	in soils in Singapore	
2011	Shenyan Cao	Biodiesel production of microalgae	NUS
2010-2011	Tianren Wang	Evaluation of MLS <sub>B</sub> antimicrobial resistance at	NUS
		environmental samples	
Purdue Sun	nmer Undergradu	ate Research Fellowship (SURF) Students (2)	
2017	Benjamin M	Electrochemical removal of metals using carbon	Purdue
	Stryker	nanotube filters	
2015	Nathaniel	Resource recovery and reuse from human urine	Purdue
	Kallmyer		
	(co-supervised)		
U.S. Militar	y Academy (West	Point) Cadet's/Midshipmen Summer Program	Students (2)
2016	Joshua Hulgan	Efficient production of biofuels from carbon	Purdue
		dioxide	
2016	Peter Zhu	Efficient production of biofuels from carbon	Purdue
		dioxide	
Final Year l	Industry Project St	tudents from Republic Polytechnic, Singapore (	5)
2013	Jess Junhan	Testing of linezolid resistance with FISH probes	NUS
	Loong		
2013	Xin Hui Soh	Occurrence of antibiotic resistance genes in	NUS
		environmental samples	
2013	Yan Li	Microbial regrowth after exposure to erythromycin	
2013	Chang Gao	Testing of PKS primers with conventional PCR	NUS
2013	Abizer Imran	Optimization of hybridization conditions for PKS	NUS
		primers	
Independer	nt Work Program S	Students for U.S. Department of Energy Solar D	<u>ecathlon</u> (4)
2012–2013	Xun Long Kew	Development of a grey water filtration system	CEE, NUS
2012–2013	Jason Hong Yang	Development of a grey water filtration system	CEE, NUS
	Tan		
2012–2013	Miao He	Development of a grey water filtration system	CEE, NUS
2012–2013	Minghui Teo	Development of a grey water filtration system	CEE, NUS
Industrial A	attachment Progra	<u>ım Students</u> (4)	
2013	Elizabeth Ying Pi	` '	CEE, NUS
2013	Erik Christianto		CEE, NUS
2013	Hoang Linh Bui		CEE, NUS

01/2024 CV – Zhou 2013 Khittisun Chaemdikawiwat CEE, NUS <u>Undergraduate Research Opportunities Program (UROP) Student</u> (1) Cost analysis of algae-based biofuel 2012 Shenyan Cao CEE, NUS <u>Undergraduate Final Year Project (Senior Thesis) Students</u> (15) 2013-2014 Yi Kong Development of electrochemical carbon nanotube NUS filters to remove off-flavor compounds Dustin Juen HonDevelopment of electrochemical carbon nanotube 2013-2014 NUS filters to remove off-flavor compounds 2013-2014 Vidushini Siva Optimization methane production in a microbial NUS electrolysis cell 2012-2013 Li Jie Hsien Optimization of hydrogen production to support NUS methanogenesis in a microbial electrolysis cell 2012-2013 Theoretical and experimental evaluations of methane NUS Shang Long Chua production in a microbial electrolysis cell Wen Chao 2012-2013 Evaluation of antimicrobial resistance at NUS Cheng environmental samples 2011-2012 Jin Quan Max Development of oligonucleotide probes for in situ NUS quantification of Streptomyces Auw 2011-2012 Yuanyan Du Studies on 2-methylisoborneol and geosmin NUS producing Actinomycetes in water catchment area 2011-2012 Xieheng Kong Antimicrobial resistance of *Streptomyces* at NUS environmental samples in Singapore 2011-2012 Evaluation of MLS<sub>B</sub> antimicrobial resistance at Chenghui Lin NUS environmental samples 2011-2012 Mohammad Sairi Development of FISH probes to quantify NUS B Amir methanogens Evaluation of microbial regrowth after treatment of NUS 2011-2012 Tianren Wang disinfectants or antimicrobials 2010-2011 Jie Li Eugene Evaluation of MLS<sub>B</sub> antimicrobial resistance at NUS environmental samples Ong 2010-2011 Xin Yu Cynthia Evaluation of antibiotic-producing Streptomyces from NUS Chew soil samples 2010-2011 Agnes Christina Quantification of Streptomyces using fluorescence in NUS situ hybridization THESIS EXAMINATION AND DEFENSE COMMITTEE (91) Ph D Dissertation Evamination Committee / Oral Defense Committee (25)

rii.D. Dissei	Fil.D. Dissertation Examination Committee / Oral Defense Committee (23)				
2022	Amit Chaturvedi	Development Of Efficient Transition Metallic	ChE, Indian		
		Cathode Electrocatalyst for Application in Single	Institute of		
		Chambered Microbial Fuel Cell	Technology		
			Roorkee		
2021	Xing Li	Phages as surrogates for pathogenic viruses in	CE, Purdue		
		analysis and validation of UV disinfection of air and	1		
		surfaces			

Jennifer A Rackliffe	Optimizing co-digestion of agro-industrial feedstocks and predicting feedstock renewable	ABE, Purdue
	• •	
Weerarathna		CEE, NTU
Vidanage Poorna		
	microbial communities	
Christian Ley	Biofilm detachment in plumbing systems	CE, Purdue
Peng Chen	Improving nitrogen use efficiency in decoupled	ABE, Purdue
	aquaponics system	
Yi-Ju Wang	Nitrogen removal in sustainable aquaculture	Horticulture,
	production	Purdue
Sarah E. Daly	Anaerobic digestion of dairy manure	ABE, Purdue
Raymond		ABE, Purdue
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Chang Ding	9	CEE, NUS
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	e e e e e e e e e e e e e e e e e e e	CEE, NUS
Siok Ling Low		CEE, NUS
		0000 1000
Nandar Kyaw		CEE, NUS
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T7 '' 01		
Yujia Shen		CEE, NUS
D''' O '	•	OPE NIIIO
Bijing Cai	e	CEE, NUS
37 3.F		CEE NILIO
Yue Ma	· · · · · · · · · · · · · · · · · · ·	CEE, NUS
C1 .: D 11:		CEE NILIC
Shruti Pavagadhi	e	CEE, NUS
77 1		CEE NIIIC
		CEE, NUS
	11	CEE NIIC
	<u> •</u>	CEE, NUS
	electrodes for microbial fuel cell application	
	Development of nevel functionalized membranes	CEE NIIC
Alaoying Zilu	<u> •</u>	CEE, NUS
		L
Dotha Daobu		CEE NIIC
bema Kagnu	•	CEE, NUS
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jing ru	<u> </u>	CEE, NUS
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	nyona PAC-IVIDIX System	
	Rackliffe  Weerarathna Vidanage Poorna  Christian Ley Peng Chen  Yi-Ju Wang  Sarah E. Daly Raymond RedCorn Chang Ding  Khorshed Alam Akm Siok Ling Low  Nandar Kyaw  Yujia Shen  Bijing Cai  Yue Ma  Shruti Pavagadhi  Venketeswari Parida Nichanan	Rackliffe feedstocks and predicting feedstock renewable energy potential via anaerobic digestion  Weerarathna Development of novel molecular tools to study the Vidanage Poorna dynamics of individual SAR11 phylotypes in microbial communities  Christian Ley Biofilm detachment in plumbing systems  Peng Chen Improving nitrogen use efficiency in decoupled aquaponics system  Yi-Ju Wang Nitrogen removal in sustainable aquaculture production  Sarah E. Daly Anaerobic digestion of dairy manure  Raymond Conversion of municipal organic waste into higher value acids and sugars  Chang Ding Isolation and characterization of dehalogenators that detoxify polybrominated diphenyl ethers and chlorinated alkanes  Khorshed Alam Removal of fluoride from water solution using innovative nanoscale sorbent  Siok Ling Low Microalgae cultivation using permeate from membrane bioreactor  Nandar Kyaw Microalgae cultivation using permeate from membrane bioreactor  Nandar Kyaw Development of microbial electrochemical sensor for toxicity screening of influent wastewater  Bijing Cai Fouling propensity of secondary effluents in ultrafiltration membrane process  Yue Ma Formation and risks of disinfection by-products in ballast water chlorination process  Shruti Pavagadhi Determination and toxicological evaluation of microcystins in tropical reservoirs  Venketeswari Forward osmosis process for secondary effluent and seawater application  Nichanan Development of carbon nanotube-modified electrodes for microbial fuel cell application  Ukiaoying Zhu Development of novel functionalized membranes for antifouling performances in water or wastewate treatment  Physical, chemical and toxicological characteristics of particulate emissions from stationary engine fueled with ultralow sulfur diesel and waste cooking oil derived biodiesel

2011	Caian Fan	Influence of trace erythromycin and erythromycin- H <sub>2</sub> O on microbial consortia in sequencing batch	CEE, NUS
		reactors	
2011	Thi Thai Yen	Enhanced lipid production of marine microalgae	CEE, NUS
	Doan	for biodiesel feedstock.	,
2010	Rajesh Kumar	Heterogeneous catalysis of plant derived oils to	CEE, NUS
	Balasubramanian	biodiesel	
Ph.D. Co	mprehensive Qualif	<b>Sying Examination Committee</b> (15)	
2013	Yang Yu	Arsenic removal from water by functional yttrium	CEE, NUS
		based adsorptive materials	
2013	Shamik	Development of novel graphene-based	CEE, NUS
	Chowdhury	nanocomposites for carbon dioxide capture and storage	
2013	Le Wang	Novel MBR fouling control with quorum	CEE, NUS
		quenching	- <b>,</b>
2013	Tze Ying Wong	Fate and transport of perflouoroalkylsulfonates and	CEE, NUS
	0 0	perfluoro carboxylates in ambient air	
2012	Dandan Zhao	Arsenic adsorption	CEE, NUS
2012	Fengxue Xing	Biobutanol production from lignobiomass	CEE, NUS
2012	Daphane Tan	Fate and behavior of emerging organic	CEE, NUS
		contaminants from raw sewage in water	
		environment	
2012	Genevieve	Pathogens in recreational waters of Singapore	CEE, NUS
	Gabrielle Rose		
2012	Vergara		ODE NILIO
2012	Yu Yan	Realization of direct biological butanol production	CEE, NUS
		from lignocellulosic biomass by wild-type	
2011	Vina Wana	clostridium	CEE NILIC
2011	Yun Wang	Quorum quenching as novel fouling control strategy for MBR fouling	CEE, NUS
2011	Siyan Zhao	Reductive dechlorination of chloroform and	CEE, NUS
2011	Siyan Zinao	identification of reductive dehalogenase genes	CEE, NOS
2011	Yong Bin Phua	Rainwater harvesting and treatment system	CEE, NUS
2011	Govindaswamy	Assessment of air quality monitoring in urban cities	
2011	Balaji	through switching of fuels	GEE, 1100
2010	Yujia Shen	Development of microbial electrochemical sensor	CEE, NUS
_010	1 0,10 011011	for toxicity screening of influent wastewater	322,1100
2010	Pei Xiong	Application of UVA/LED/TiO <sub>2</sub> process for	CEE, NUS
		wastewater treatment-pharmaceutical degradation	,
		and bacteria disinfection	
Ph.D. Or	al Qualifving Exam	ination Committee (27)	
2014	Yang Yu	Arsenic removal from water by functional yttrium	CEE, NUS
	1 1	based adsorptive materials	J., 1100
2013	Fengxue Xing	Biobutanol production from lignobiomass	CEE, NUS
		L	,

2013	Yu Yan	Realization of direct biological butanol production from lignocellulosic biomass by wild-type	CEE, NUS
		clostridium	
2013	Mohammad	Microbial fuel cells (MFCS) for degradation of	CEE, NUS
	Sherafatmand	polycyclic aromatic hydrocarbons (PAHs) from the soil	
2013	Jothinathan	O <sub>3</sub> /H <sub>2</sub> O <sub>2</sub> based AOP for PPCPs removal: kinetic	CEE, NUS
	Lakshmi	studies on influence of initiator, promoter and	
		inhibitors in presence/absence of NOM/EFOM	0000 11110
2013	Behdad	Removal of emerging contaminants using plant-	CEE, NUS
2012	Chehrenegar	based system	CEE NILIC
2013	Wei Hong Fan	Tropospheric halocarbons in Southeast Asia-levels, sources and delineation of regional and local-scale emissions	CEE, NUS
2013	Genevieve	Pathogens in recreational waters of Singapore	CEE, NUS
	Gabrielle Rose		,
	Vergara		
2013	Yun Wang	Novel MBR fouling control with quorum quenching	CEE, NUS
2013	Mahsa Foolad	Fate and transport of sewage-associated indicators through soil column	CEE, NUS
2012	/ 11	o Photocatalytic degradation of carbamazepine using	CEE, NUS
	Initha	graphene-TiO <sub>2</sub> nanocomposites	
2012	Krishnan	Photocatalytic construction material for mitigation	CEE, NUS
2012	Padmaja	of air pollutants	OPE NIII
2012	Chenxi Sun	Inactivation kinetics and mechanism of indicator and enteric viruses in tropical surface water	CEE, NUS
2012	Jinzhi Lim		CEE, NUS
2012	Xueqing Shi	Treatment of pharmaceutical wastewater under anaerobic processes	CEE, NUS
2012	Kai Yin Melvin	Development and application of a novel anaerobic	CEE, NUS
	Tan	forward osmosis membrane bioreactor (AnFOMBR)	
2011	Nan Li	Versatile preparation of	CEE, NUS
		ultrafiltration/nanofiltration membranes through a	
		one-step simultaneous phase inversion and cross-	
		linking method for water treatment applications	
2011	Yuen Sean Lam	Novel syntrophic microbial consortium for the	CEE, NUS
		bioconversion of hemicellulose to value-added	
2011	D.: V:	products	CEE NIIC
2011	Pei Xiong	Application of UVA/LED/TiO <sub>2</sub> process for wastewater treatment-pharmaceutical degradation and bacteria disinfection	CEE, NUS
2011	Yu Ling	Heavy metal removal from water by using affinity	CEE, NUS
	<u> </u>	membrane	
2011	Yujia Shen	Development of microbial electrochemical sensor for toxicity screening of influent wastewater	CEE, NUS

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2011	Vasanth	Optimization of biochemical conversion process	CEE, NUS
	Natarajan	for lignocellulosic biomass to sugars by integrating the kinetic models	
2010	Akm Khorshed	Development of an innovative nano-scale sorbent	CEE, NUS
	Alam	for treatment of ionic contaminants in water solution	
2010	Yue Ma	Formation and risks of disinfection by-products in ballast water chlorination process	CEE, NUS
2010	Chang Ding	Isolation and characterization of dehalogenators that detoxify polybrominated diphenyl ethers and chlorinated alkanes	CEE, NUS
2010	Bijing Cai	Fouling propensity of secondary effluents in ultrafiltration membrane process	CEE, NUS
M.S. Thesis	s Examination Con	mmittee (11)	
2020	Kush Paliwal	Analyzing the effects of flowing water on the detection and quantification of Salmon eDNA	CE, Purdue
2018	Tianqi Wang	Waste materials and management: lessons from the Flint water crisis and blast furnace slag usage in Indiana	CE, Purdue
2017	Gaopin Cao	Formation and removal of toxic disinfection by- products from cross-linked polyethylene pipes in building premise plumbing system	EEE, Purdue
2014	Ling Ding	Assessing the performance of antimicrobial concrete admixtures in concrete subjected to microbially induced corrosion	CE, Purdue
2014	Zihan Wang	Reductive dehalogenation of chlorinated hydrocarbons by established cocultures	CEE, NUS
2012	Marc-Antoine Metais	Bio-hydrogen & bio-butanol generation by bacteria isolated from spent mushroom substrate	CEE, NUS
2011	Zi Tan	Optimisation of microbial fuel cells	CEE, NUS
2011	Junyou Zhang	Forward osmosis membrane bioreactor for water reuse	CEE, NUS
2011	Xue Feng	The effect of backwashing procedures on filter ripening and general effluent quality	CEE, NUS
2011	Pak Hang Martin Fung	Optimization of photobioreactor for astaxanthin production in <i>Chlorella Zofingiensis</i>	CEE, NUS
2010	Sowpati Jayaker	Assessment of synergistic effect of UV/H <sub>2</sub> O <sub>2</sub> integrated disinfection process	CEE, NUS
Master Stud	dent Advisory Con	nmittee (non-thesis) (13)	
2021–2023	Shivani Cheernah	,	EEE, Purdue
2021–2023	Chathura Viswan		CE, Purdue
2021–2023	Mohammad Hass	an Chaudhry	EEE, Purdue
2021–2023	Jamaie Scott	amuthu Vaichaclaumes	CE, Purdue
2021–2023 2021–2023	Sihan Zhou	amuthu Krishnakumar	CE, Purdue CE, Purdue
2021–2023	Adedolapo Wasiu	ı Adesope	CE, Purdue

2018–2019	Calvin Liu			CE, Purdue
2017-2018	Latha Bhat			CE, Purdue
2016-2018	Jesse Hamm			EEE, Purdue
2016-2018	Yifan Tong			EEE, Purdue
2016-2018	Wei Liu			EEE, Purdue
2016-2018	Yichen Wu			CE, Purdue
<b>TEACHING</b>	<b>EXPERIENCE</b>			
2023	Lecturer	Design principles and Practice of Drinking Water Systems	graduate	CE, Purdue
2022-present	Co-Lecturer	EEE Graduate Research	graduate	EEE, Purdue
2022	Lecturer	Seminar Biological Principles in	graduate	Edx & Purdue
		Wastewater Treatment		
2022	Lecturer	Nutrient Removal and Resource	graduate	Edx & Purdue
		Recovery in Wastewater	_	
2022	Lecturer	Modern Biotechnologies for	graduate	Edx & Purdue
		Wastewater Treatment		
2021	Lecturer	Emerging Contaminant	graduate	EEE, Purdue
		Removal		
2021	Co-Lecturer	Introduction to Engineering of	undergraduate	CE, Purdue
		Water		
2019	Co-Lecturer	Nanotechnology for Civil Engineering	undergraduate	CE, Purdue
2018	Lecturer	Membranes for Water	graduate	EEE, Purdue
2010	Dectarer	Treatment	graduate	EEE, I didde
2016–2020	Co-Lecturer	Senior Design	undergraduate	EEE, Purdue
2016–2017	Co-Lecturer	Direct Potabilization	graduate	EEE, Purdue
2015-present		Environmental Biotechnology	graduate	CE, Purdue
2015–present		Wastewater Treatment	undergraduate	CE/EEE,
1		Processes	S	Purdue
2014	Lecturer	Water and Wastewater	undergraduate	CE/EEE,
		Treatment	O	Purdue
2012-2014	Lecturer	Topics in Environmental	graduate	CEE, NUS
		Biotechnology	O	ŕ
2011-2014	Lecturer	Wastewater Microbiology	undergraduate	CEE, NUS
2010-2014	Co-lecturer	Environmental Engineering	graduate	CEE, NUS
		Principles		
2010-2014	Coordinator and	Design Project	undergraduate	CEE, NUS
	Resource Person			
2010–2012	Lecturer	Environmental Microbiological Principles	undergraduate	CEE, NUS
2007	Teaching Assistant	t Engineering Risk and	undergraduate	CEE, UIUC
		Uncertainty	0	, , , , , ,
2006	Teaching Assistant	t Environmental Engineering	undergraduate	CEE, UIUC
2006	Guest Lecturer	Biological Principles of	graduate	CEE, UIUC
		Environmental Engineering	O	,
		Processes		

2005	Co-lecturer	Fluorescence <i>in situ</i> graduate hybridization workshop	CEE, UIUC
SERVICE T	O DEPARTMENT	C/UNIVERSITY	
2022–present	Co-Chair	University Senate Budget Interpretation, Evaluation and Review Committee	Purdue
2022–present	Member	Graduate Committee	EEE, Purdue
2022	Reviewer	Purdue Engineering Virtual Graduate Showcase	College of Engineering, Purdue
2018–2021	Member	Academics Committee	EEE, Purdue
2020	Reviewer	Most Outstanding Interdisciplinary Project	Graduate
		Award (MOIPA)	School, Purdue
2017	Reviewer	Ismail Travel Awards	Graduate
2017	Member	Internal Review Committee	School, Purdue CE, Purdue
2017	Reviewer	Engineering Projects in Community Service	Purdue
		(EPICS)	
2016–2018	Member	Space/Facilities/Safety Committee	EEE, Purdue
2016	Reviewer	Graduate School Fellowship	Purdue
2016	Reviewer	Future Faculty Member Workshop	Purdue
2015–2017	Judge	Office of Interdisciplinary Graduate Programs (OIGP) Spring Reception	Purdue
2015–2016	Member	Academics Committee	EEE, Purdue
2015	Reviewer	Future Faculty Member Workshop	Purdue
2014–2016	Executive	Purdue Water Community	Purdue
	Committee Member		
2014-2015	Member	Engagement Committee	EEE, Purdue
2014-2015	Member	Seminar Committee	EEE, Purdue
2014–2015	Member	Faculty Search Committee	EEE, Purdue
2013–2014	Member	Student Affairs/Alumni Committee	CEE, NUS
2013–2014	Member	Board of Examiners Committee	CEE, NUS
2012–2013	Member	Engineering Accreditation Board Committee	CEE, NUS
2012	Chairperson	Sessions "Efficient Systems for Safe Drinking Water, Integrated Technology Based on Reduce,	•
		Reuse and Recycle (3R)" and "River Ecological Rehabilitation"	Scientific Workshop
2012, 2013	Interviewer	M. Eng. Student Admission Committee	CEE, NUS
2011–2014	Member	Curriculum Committee	CEE, NUS
2011, 2013	Interviewer	Ph.D. Student Admission Committee	CEE, NUS
2011, 2012	Interviewer	Student Exchange Program Selection Committee	eCEE, NUS
2011	Moderator /	Energy Efficiency in Industrial Processes in	Energy Studies
	Track Lead	NUS-Industry Energy Efficiency Workshop	Institute, NUS
2010	Judge	Environmental Science and Engineering Poster	CEE, NUS
2004–2006	Volunteer	Symposium Graduate student recruiting committee	CEE, NUS
2003–2006	President	Gamma Alpha Graduate Society	

SERVICE 7	TO PROFESSION	
2024	Panelist	U.S. National Science Foundation
2024	Panelist	U.S. National Science Foundation
2023	Proposal Reviewer	Research Grants Council of Hong Kong
2023	Panelist	U.S. National Science Foundation
2023	Panelist	ENG, CBET, U.S. National Science Foundation
2022	Panelist	ENG, CBET, U.S. National Science Foundation
2022	Proposal Reviewer	Research Grants Council of Hong Kong
2022	Panelist	ENG, CBET, U.S. National Science Foundation
2022	Panelist	U.S. National Science Foundation
2021	Proposal Reviewer	Nazarbayev University Research Council, Faculty-Development
	•	Competitive Research Grants Program, Kazakhstan
2021	Panelist	ENG, CBET, U.S. National Science Foundation
2021	Proposal Reviewer	Oak Ridge Associated Universities (ORAU) Ralph E Powe
	1	Junior Faculty Enhancement Awards
2021	Proposal Reviewer	Research Grants Council of Hong Kong
2020	_	The Antibiotic Resistance Programme, The Netherlands
	1	Organisation of Health, Research and Development (ZonMw)
2020	Proposal Reviewer	French National Research Agency / Research Grants Council of
	•	Hong Kong Joint Research Scheme (JRS)
2020	Proposal Reviewer	Research Grants Council of Hong Kong
2020	Panelist	U.S. National Science Foundation
2019	Proposal Reviewer	German-Israeli Water Technology Cooperation Program, Israeli
	_	Ministry of Science and Technology (MOST)
2019	Panelist	"Protecting Drinking Water" by Dr. Joan Rose, Purdue
		Engineering Distinguished Lecture Series
2019	Reviewer	Student Services Committee Academic Job Application Review,
		AEESP
2019	Panelist	ENG, CBET, U.S. National Science Foundation
2019	Proposal Reviewer	Research Grants Council of Hong Kong
2019	Panelist	U.S. National Science Foundation
2018	Proposal Reviewer	French National Research Agency / Research Grants Council of
		Hong Kong Joint Research Scheme (JRS)
2018	Panelist	ENG, CBET, U.S. National Science Foundation
2018	_	Research Grants Council of Hong Kong
2018	Panelist	U.S. National Science Foundation
2017	Panelist	ENG, CBET, U.S. National Science Foundation
2017	_	Ministry of Education and Science of the Russian Federation
2017	-	Research Grants Council of Hong Kong
2017–2020	Project Advisory	"Mitigating the Risk of Antibiotic Resistance at Critical Control
	<b>Board Member</b>	Points in the Beef Cattle Manure Management Systems", United
	_	States Department of Agriculture
2016	_	Research Grants Council of Hong Kong
2016	Panelist	U.S. National Science Foundation
2016	Panelist	ENG, CBET, U.S. National Science Foundation
2016	Panelist	ENG, CBET, U.S. National Science Foundation

2016	Proposal Reviewer	Indiana Water Resources Research 104B Grant, United States
2010	i ioposai Keviewei	Geological Survey
2015	Panelist	ENG, CBET, U.S. National Science Foundation
2015		Research Grants Council of Hong Kong
2014	Reviewer	Student Services Committee Academic Job Application Review,
2011	reviewer	AEESP
2014	Judge	Singapore Science & Engineering Fair, Singapore Ministry of
		Education, the Agency for Science, Technology & Research and
		the Science Centre Singapore
2013	Judge	Applied Materials Clean Tech Competition, Center for Science
		Teaching and Learning
2012-2014	<b>Honorary Auditor</b>	BioEnergy Society of Singapore
2012-2013	Workgroup	Guidelines for Treated Greywater Quality, Singapore Public
	Member	Utilities Board
2013	Proposal Reviewer	Ministry of Education and Science of the Russian Federation
2013	Proposal Reviewer	Singapore National Research Foundation
2012	Judge	Singapore Science & Engineering Fair, Singapore Ministry of
		Education, the Agency for Science, Technology & Research and
		the Science Centre Singapore
2010	Judge	Singapore Science Mentorship Program Youth Science
		Conference
2009-2010	<b>Board Director</b> /	Chinese American Environmental Professionals Association,
	Membership Chair	· Oakland, CA
2008-2012	Project Advisory	"Microbial Ecology of Drinking Water Distribution Systems",
	Committee	U.S. Water Research Foundation (formerly AwwaRF)
	Member	

# JOURNAL EDITOR

2022–present <b>Review Editor</b>	Frontiers in Microbiology - Microbiotechnology
2021-present Editorial Board	International Biodeterioration & Biodegradation
Member	
Handling Editor	Special issue of "Environmental Plastics" for journal PLOS
J	ONE

2012–present **Academic Editor** PLOS ONE

# **JOURNAL REVIEWER** (289 manuscripts in 77 journals)

Journal	# of reviews
ACS Applied Materials & Interfaces	1
ACS Environmental Au	1
ACS ES&T Water	2
American Journal of Infection Control	1
Applied Energy	3
Applied Microbiology and Biotechnology	3
Biochemical Engineering Journal	6
Bioengineered	1
Biomass Conversion and Biorefinery	1
Bioresource Technology	15
Biotechnology for Biofuels	3

01/2024	CV – Zhou
Bulletin of Environmental Contamination and Toxicology	2
Carbon	1
Chemical Engineering Journal	5
Chemosphere	1
Critical Reviews in Environmental Science and Technology	14
Current Opinion in Solid State & Materials Science	1
Desalination and Water Treatment	1
Environmental Chemistry	1
Environmental Engineering Science	8
Environment International	6
Environmental Pollution	3
Environment Research	3
Environmental Science: Advances	2
Environmental Science and Pollution Research	1
Environmental Science and Ecotechnology	2
Environmental Science & Technology	37
Environmental Science & Technology Letters	2
Environmental Science: Nano	2
Environmental Science and Pollution Research	4
Environmental Science: Processes and Impacts	2
Environmental Science: Water Research & Technology	13
Environmental Technology	2
Frontiers in Microbiology	2
International Biodeterioration & Biodegradation	9
International Journal of Chemical Engineering	1
International Journal of Environmental Science and Technology	4
International Journal of Environmental Research and Public Health	1
JAC-Antimicrobial Resistance	1
	1
Journal of Applied Microbiology	
Journal of Bacteriology Journal of Cleaner Production	1
	6 8
Journal of Environmental Engineering	
Journal of Environmental Quality	6
Journal of Matarials Characters A	14
Journal of Madical Migrabialogy	1
Journal of Medical Microbiology	1
Journal of Oceanology and Limnology	1
Letter in Applied Microbiology	1
mLife	1
Marine Pollution Bulletin	1
Molecules	1
Microbial Cell Factories	3
Nanoscale	2
Nature Communications	1
npj Biofilms and Microbiomes	1
Pedosphere  Pedosphere	1
PeerJ - Life & Environment	1
PLOS Global Public Health	1

01/2024	CV – Zhou
PLOS ONE	3
Process Safety and Environmental Protection	1
Renewable Energy	11
RSC Advances	6
RSC Sustainability	1
Separation and Purification Technology	2
Science Advances	1
Science of the Total Environment	10
Scientific Reports	4
Smart Science	1
Soil Ecology Letters	1
Trends in Biotechnology	1
Waste and Biomass Valorization	2
Water Emerging Contaminants & Nanoplastics	1
Water Environment Research	1
Water Research	19
Water Research X	2
Water Science and Engineering	1

## **PROFESSIONAL MEMBERSHIPS**

I ROI LOUIO	1 TILL MILMIDLICOITI	<u> </u>
2011–present	Member	American Society of Civil Engineers (ASCE)
2011–present	Member	Association of Environmental Engineering and Science
		Professors (AEESP)
2004-present	Member	American Society for Microbiology (ASM)
2016–2018	Communication	The Overseas Chinese Society for Microbiology (Sino-
	Officer	Micro)
2012-2014	Member	BioEnergy Society of Singapore (BESS)
2011–2016	Member	International Water Association (IWA)
2008-2010	Member	American Water Works Association (AWWA)
2007-2010	Board Director /	Chinese American Environmental Professionals Association
	Membership Chair	(CAEPA)
2007-2010	Member	Water Environment Federation (WEF)