Yen-Hui Lin

Education：

Ph.D., Civil/Environmental Engineering
University of Wisconsin-Milwaukee, Milwaukee, WI, USA
January, 1996–May, 1998
M.S., Environmental Engineering
National Cheng Kung University, Tainan, Taiwan
August, 1985–May, 1987
B.S., Environmental Engineering
National Cheng Kung University, Tainan, Taiwan
August, 1981–May, 1985

Career Experience：

Research Fellow, Development Center of Biotechnology, Taiwan, September, 1998–July, 2004
Engineer, Agency of Environmental Protection in Taiwan Provincial Government, November, 1989–July, 1992

Courses Taught：

Water supply engineering, Sewage engineering, Environmental microbiology, Environmental microbiology laboratory, Fluid dynamics, Engineering mathematics, Hydrology

Professional Fields：

Wastewater treatment by fixed-biofilm
Wastewater treatment by activated carbon
Kinetic model system for biofilm process
Carbon dioxide fixation by microalgae in photoreactor
Nitrification and denitrification processes
Biodegradation of phenol and chlorophenols

Research Interests：

Azo-dye decolorization in a biological activated carbon process;
chromium(VI) bioreduction by E. coli 33456 on chitosan beads;
Conversion of CO2 into CH4 by methane-producing bacterium under a pressurized condition;
Bioleaching technologies have also applied to recover the heavy metals from industrial

waste sludge;
removal of organic carbon and ammonium-nitrogen in leachate using fly ash-waste sludge-clay as a composite supporting medium in a oxic/anoxic biofilm reactor.

Representative Publication in 5 Years：

Yen-Hui Lin* (2016) Adsorption and biodegradation of 2-chlorophenol by mixed culture using activated carbon as a supporting medium-reactor performance and model verification. **Applied Water Science** (In Print) (ESCI)

Yen-Hui Lin*,Guan-Lun Chen, Yi-Ting Cai (2016) Biodegradation of phenol and sodium salicylate by *Pseudomonas putida* BCRC 14365 in batch and packed-bed bioreactors-Model development and verification. **Journal of Environmental Engineering, ASCE** (In Print) (SCI, Engineering, Civil, IF=1.125, Rank=47/125=37.6%)

Yen-Hui Lin* (2016) Kinetics of removal for reactive orange 16 in a biological activated carbon process. **International Journal of Biological Papers**, 1(1) 47-61, August 2016 (NSC 98-2221-E-166-001-MY2)

Yen-Hui Lin* (2016) Growth kinetics of PHB-producing cells and production of polyhydroxybutyarte using molasses wastewater as a substrate in batch reactor. **International Journal of Biological Papers**, 1(1) 28-35, July 2016.

Yen-Hui Lin*, Yu-Chien Tu, Guan-Lun Chen (2015) Kinetics of chromium(VI) reduction with acetate biodegradation by *Escherichia coli* 33456 in a fixed biofilm reactor. **Environmental Engineering Science**, 32(9) 761-772, September 2015 (NSC 96-2221-E-166-004-MY2) (SCI 2014, Impact Factor = 0.991, Ranking = 167/223, Environmental Sciences)

Yen-Hui Lin* (2015) Biodegradation of 2,4-Dichlorophenol by mixed culture in an aerobic fixed-biofilm process-Kinetic model and reactor performance. **Environmental Engineering Science**, 32(6) 516-527, June 2015 (NSC 102-2221-E-166-001-MY2) (SCI 2014, Impact Factor = 0.991, Ranking = 167/223, Environmental Sciences)

Mong-Chuan Lee, **Yen-Hui Lin***, Huang-Wei Yu (2014) Kinetics of nitrification in a fixed biofilm reactor using dewatered sludge-fly ash composite ceramic particle as a supporting medium. **Biodegradation**, 25(6) 849-865, November 2014 (NSC 100-2221-E-166-004-MY2) (SCI 2013, Impact Factor = 2.492, Ranking = 64/165, Biotechnology & Applied Microbiology, ISI Times Cited:0)

Yen-Hui Lin* (2014) Modeling chromium(VI) reduction by *Escherichia coli* 33456 using ceramic pearl as a supporting medium. **International Journal of Environmental Science and Technology**, 11(7), 1887-1896, October 2014 (NSC 96-2221-E-166-004-MY2) (SCI 2013, Impact Factor = 1.794, Ranking = 102/216, Environmental Sciences, ISI Times Cited:0)

Yen-Hui Lin* (2014) Adsorption and biodegradation of reactive orange 16 by *Funalia Trogii* 200800 on fly ash-chitosan composite media. **Journal of Biotechnology, Bioinformatics and Bioengineering**, 1(3), 14-21, May 2014 (NSC 98-2221-E-166-001-MY2)

Yen-Hui Lin* (2014) Kinetics of photocatalytic degradation of 2-chlorophenol in a TiO_2 catalyst. Research **Journal of Modeling and Simulation**, 1(4), 1-7, February 2014 (NSC 98-2221-E-166-001-MY2)

Jyh-Yih Leu, **Yen-Hui Lin*** (2013) Optimization of nutritional composition of growth medium for *Chlorella* sp. FJ3 growth kinetics in batch and continuous-flow photoreactors. **Environmental Technology**, 34(20), 2845-2855, October 2013 (EPA-93-E1U4-04-002) (SCI 2013, Impact Factor=1.197, Ranking=142/216, Environmental Sciences, ISI Times Cited:0)

Yen-Hui Lin*, Wen-Fan Lin, Kai-Ning Jhang, Pei-Yu Lin, Mong-Chuan Lee (2013) Adsorption with biodegradation for decolorization of reactive black 5 by *Funalia trogii* 200800 on a fly ash-chitosan medium in a fluidized bed bioreactor-kinetic model and reactor performance. **Biodegradation**, 24(1), 137-152, February 2013 (NSC 98-2221-E-166-001-MY2) (SCI 2013, Impact Factor = 2.492, Ranking = 64/165, Biotechnology & Applied Microbiology, ISI Times Cited:0)

Yen-Hui Lin* (2012) Molecular weight distribution of organic matter by ozonation and biofiltration. **Water Science and Technology**, 66(12), 2604-2612, December 2012 (SCI 2013, Impact Factor = 1.212, Ranking = 44/79, Water Resources, ISI Times Cited:0)

Yen-Hui Lin*, Hong-Xiang Zheng, Mu-Ling Juan (2012) Biohydrogen production using waste activated sludge as a substrate from fructose-processing wastewater treatment. **Process Safety and Environmental Protection,** 90(3), 221-230, May 2012 (SCI 2013, Impact Factor = 1.829, Ranking = 47/133, Engineering, Chemical, ISI Times Cited:3)

Jyh-Yih Leu, **Yen-Hui Lin*,** Fuh-Long Chang (2011) Conversion of CO_2 into CH_4 by

methane-producing bacterium FJ10 under a pressurized condition. **Chemical Engineering Research and Design,** 89(9), 1879-1890, September 2011 (EPA-95-E1U4-008) (SCI 2013, Impactor Factor = 2.281, Ranking = 33/133, Engineering, Chemical, ISI Times Cited:6)

Yen-Hui Lin*, Chih-Lung Wu, Hsin-Lung Li, Chih-Hao Hsu (2011) Verification of model for adsorption and reduction of chromium (VI) by *Escherichia Coli* 33456 using chitosan bead as a supporting medium. **Applied Mathematical Modelling**, 35(6), 2736-2751, June 2011 (NSC 96-2221-E-166-004-MY2) (SCI 2013, Impact Factor = 2.158, Ranking = 15/139, Mechanics, ISI Times Cited:3)

Yen-Hui Lin*, Hsin-Jung Hsien (2011) Characteristics transformation of humic acid during ozonation and biofiltration processes. **Water Environment Research,** 83(5), 450-460, May 2011 (SCI 2013, Impact Factor = 1.000, Ranking = 53/79, Water Resources, ISI Times Cited:2)

Yen-Hui Lin*, Chih-Lung Wu (2011) Sensitivity analysis of phenol degradation with sulfate reduction under anaerobic conditions. **Environmental Modeling & Assessment**, 16(4), 213-225, April 2011 (SCI 2013, Impact Factor = 1.074 Ranking = 157/216, Environmental Sciences, ISI Times Cited:3)

Yen-Hui Lin*, Mu-Ling Juan, Hsin-Jung Hsien (2011) Effects of temperature and initial pH on biohydrogen production from food-processing wastewater using anaerobic mixed cultures. **Biodegradation**, 22(3), 551-563, March 2011 (SCI 2013, Impact Factor = 2.492, Ranking = 64/165, Biotechnology & Applied Microbiology, ISI Times Cited:8)

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