

CURRICULUM VITAE

Kuo-Lin Huang

Professor, PhD, PE

Department of Environmental Science and Engineering

National Pingtung University of Science and Technology (NPUST)

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Education

- Ph.D., Department of Civil and Environmental Engineering, Clarkson University, U.S.A., 2001.

Appointments

- Assistant Professor, Center of General Education, Chang Jung Christian University, 02/2002–07/2004.
- Assistant Professor, Dept. of Environmental Engineering and Sciences, National Pingtung University of Science and Technology, 08/2004–07/2006.
- Associate Professor, Dept. of Environmental Engineering and Sciences, National Pingtung University of Science and Technology, 08/2006–07/2009.
- Professor, Dept. of Environmental Engineering and Sciences, National Pingtung University of Science and Technology, Starting 08/2009.

Awards and Honors

- The Scholarship of Government Sponsorship for Overseas Study, Ministry of Education, Taiwan, 1993–1995.
- Research Assistant Scholarship, Clarkson University, U.S.A., 1999–2001.
- The Excellent Paper Award, The Chinese Institute of Environmental Engineering (CIEnvE), 2010.
- The Best Research Paper Award, Taiwan Association for Aerosol Research (TAAR), 2013.
- Inclusion in the Who's Who in the World[®] 2016–2021, Marquis Who's Who.
- Excellent Talent Reward (2011 and 2016–2020) (awarded at NPUST), Ministry of Science and Technology, Taiwan.

Memberships

- Member, American Chemical Society (ACS), 2006 and 2014.
- Member, The Electrochemical Society (ECS), 06/2006–05/2007.
- Life Member, The Chinese Institute of Environmental Engineering (CIEnvE).

- Life Member, Taiwan Association for Aerosol Research (TAAR).
- Life Member, Taiwan PM2.5 Control Association (PMCA)
- Life Member, The Electrochemical Society of Taiwan (ECSTw).
- Life Member, Association of Chemical Sensors in Taiwan (ACST).
- Director, Association of Chemical Sensors in Taiwan (ACST), 06/2014–05/2016.
- Supervisor, Taiwan Association for Aerosol Research (TAAR), 09/2008–09/2022.
- Supervisor, Taiwan PM2.5 Control Association (PMCA), 06/2020–06/2022.

Research Interests

1. Electrochemical Technology (recycling technology, electrode fabrication, electrochemical degradation of (emerging) organic pollutants, and electrochemical sensors)
2. Mediated Electrochemical Oxidation Technology (degradation of (emerging) organic pollutants)
3. Environmental Technology
4. Emission of Air Toxicants
5. Proton Exchange Membrane Fuel Cells

Editorial Board Member

1. Annals of Civil and Environmental Engineering (Editor-in-Chief)
2. The Global Environmental Engineers
3. Research Journal of Environmental Sciences
4. Advanced Environmental Research
5. The Open Chemical Engineering Journal
6. Jacobs Journal of Civil Engineering
7. EMS Engineering Science Journal

International Conference Committee Member or Guest Editor

1. Session Chair and Invited Speaker, 2012 International Symposium on Chemical-Environmental-Biomedical Technology (isCEBT2012) (Tainan, Taiwan).
2. Session Chair and Advisory Committee, The sixth International Conference on Environmental Science and Technology (IC EST) 2012 (Houston, Texas, USA)
3. Committee Member, 2014 International Conference on Energy Engineering and Environment Engineering (2nd ICEEEE 2014) (Hong Kong, China).
4. TPC member, 2014 International Conference on Materials Science and Energy Engineering (CMSEE 2014) (Sanya, Hainan, China).
5. Technical Program Committee, 2014 International Conference on Advance Materials Research and Application (AMRA 2014) (Sanya, Hainan, China)
6. Executive Organizing Program Technical Committee, 3rd ScienceOne International Conference on Environmental Sciences (ICES) 2014 (Deira, Dubai, UAE).
7. Program Technical Committee, 4th ScienceOne International Conference on

- Environmental Sciences (ICES) 2015 (Deira, Dubai, UAE).
8. Technical Program Committee, 2015 International Conference on Urban Environment and Health (ICUEH 2015) (Shanghai, China).
 9. Technical Program Committee, The 5th Conference on New Energy and Sustainable Development (NESD 2015) (Shanghai, China).
 10. International Scientific Committee (Technical and Organizing Committee), 2015 International conference on New Energy and Renewable Resources ICNERR 2015) (Guangzhou, China).
 11. Advisory Committee (Technical and Organizing Committee), 2015 International Symposium on Smart-Sensing Technology (ISST) and the 20th Symposium of Association for Chemical Sensors in Taiwan (SACST) (Taoyuan, Taiwan).
 12. Technical Program Committee, The 2nd Conference on Environmental Chemistry (CEC 2015) (Guilin, China).
 13. Technical Program Committee, International Conference on Energy Development and Environmental Protection (EDEP 2016) (Beijing, China).
 14. Technical Program Committee, The 6th International Conference on Pollution and Treatment Technology (PTT 2016) (Suzhou, China).
 15. Technical Program Committee, 3rd Conference on Environmental Chemistry (CEC 2016) (Shanghai, China).
 16. Conference Chair and Technical Program Committee, 2016 International Conference on Energy Engineering and Environmental Protection (EEEP 2016) (Sanya, China).
 17. Keynote Speaker and Technical Program Committee, 2016 International Conference on Environmental Research and Public Health (ICERP 2016) (Shenzhen, China).
 18. Technical Program Committee, The International Conference on Social Science and Environmental Science (SSES 2016) (Guangzhou, China).
 19. General Chair and Technical Program Committee, 2nd Annual International Conference on Energy, Environmental & Sustainable Ecosystem Development (EESSED2016) (Kunming, China).
 20. Guest Editor (a special issue of International Journal of Hydrogen Energy (IJHE) (SCI)) and Technical Program Committee, 2017 5th International Conference on Energy Engineering and Environmental Engineering (5th ICEEEEE2017) (Xiamen, China).
 21. Guest Editor (a special issue of Environmental Science and Pollution Research (ESPR)), the International Conference on Social Science, Public Health and Education (SSPHE2017) (SCI) (Guangzhou, China).
 22. Guest Editor (a special issue of Environmental Science and Pollution Research (ESPR)), the International Conference on Social Science, Public Health and Education (SSPHE2018) (SCI) (Sanya, China).
 23. Guest Editor (a special issue of International Journal of Hydrogen Energy (IJHE) (SCI)), 2018 6th International Conference on Energy Engineering and Environmental Engineering (6th ICEEEEE2018) (Beijing, China).
 24. General Chair and Editor, The Third International Conference on Energy Engineering and Environmental Protection (EEEP2018) (Sanya, China).
 25. Co-Guest Editor, 6th International Conference on Energy Engineering and Environmental Engineering (6th ICEEEEE2018) (Beijing, China).
 26. Keynote Speaker, 2018 International Conference on Environment and Ocean Engineering (ICEOE 2018) (Taipei, Taiwan).
 27. Program Committee Member, The 3rd Asian Conference on Science, Technology

& Medicine (ACSTM 2019) (Dubai).

28. Committee Member, 2019 2nd International Conference on Energy Resources and Sustainable Development (ICERSD2019) (Wuhan, China)

Reviewer

Journal of Hazardous Materials	Environmental Science & Technology
Journal of Environmental Management	Atmospheric Environment
Water Research	Aerosol and Air Quality Research
J Air Waste Management	Waste Management
Environmental Engineering Science	Water Science and Technology
Hydrometallurgy	Surface and Coatings Technology
Journal of Membrane Science	Plasma Science and Technology
Chemical Engineering Journal	Industrial & Engineering Chemistry Research
Electrochimica Acta	Journal of the Electrochemical Society
International Journal of Hydrogen Energy	Journal of Pharmaceutical and Biomedical Analysis
ChemSusChem	Water, Air, & Soil Pollution
Environmental Technology	Water Environment Research
Diamond & Related Materials	
Taiwan Ministry of Science and Technology (grant proposal reviewer)	Czech Science Foundation (grant proposal reviewer)
National Academy for Educational Research (NAER)	Research Grants Council (RGC) of Hong Kong (grant proposal reviewer)

Patent

1. SJ Huang, LC Huang, **KL Huang**, YT Wu, Multifunctional turbine ventilation electric generator; patent period: 01/21/2014 to 04/17/2023, Taiwan.

Publications

Journal Papers (*: Corresponding author)

1. CD Dong, **KL Huang***, CW Chen, CW Lee, HY Lin, CF Chen, Estimation of air pollutants emission from ships in the Kaohsiung Harbor area. *Aerosol and Air Quality Research*, 2 (June 2002) 31-40. (SCI)
2. **KL Huang**, TM Holsen, JR Selman, Impurity partitioning in Nafion and ceramic separators used for electrolytic purification of spent chromium plating solutions. *J. Membrane Science*, 210 (Dec. 2002) 137–145. (SCI)
3. **KL Huang**, TM Holsen, TC Chou, JR Selman, Comparing Nafion and ceramic separators used in electrochemical purification of spent chromium plating solutions: cationic impurity removal and transport. *Environmental Science & Technology*, 37(9) (May 2003) 1992–1998. (SCI)
4. CT Li, YJ Huang, **KL Huang**, WJ Lee, Characterization of slags and ingots from the vitrification of MSW incineration ashes. *Industrial & Engineering Chemistry Research*, 42(11) (May 2003) 2306–2313. (SCI)

5. HH Yang, PC Chen, LT Hsien, MC Lin, **KL Huang**, Characteristic of atmospheric metals during dry monsoon season in the coastal region of western Taiwan. *Aerosol and Air Quality Research*, 3 (June 2003) 29–39. (SCI)
6. **KL Huang**, TM Holsen, JR Selman, Anion partitioning in and diffusion through a Nafion membrane. *Industrial & Engineering Chemistry Research*, 42 (July 2003) 3620–3625. (SCI)
7. **KL Huang**, TM Holsen, JR Selman, Impurity diffusion through Nafion and ceramic separators used for electrolytic purification of spent chromium plating solutions. *J. Membrane Science*, 221(1-2) (Aug. 2003) 135–146. (SCI)
8. YF Wang, **KL Huang**, CT Li, HH Mi, JH Luo, PJ Tsai, Emissions of metal contents from a diesel vehicle engine. *Atmospheric Environment*, 37 (33) (Sep. 2003) 4637–4643. (SCI)
9. **KL Huang***, TM Holsen, TC Chou, MC Yang, The use of air fuel cell cathodes to remove contaminants from spent chromium plating solutions. *Environmental Technology*, 25 (Jan. 2004) 39–49. (SCI)
10. SJ Chen, MC Hung, **KL Huang**, WI Hwang, Emission of heavy metals from animal carcass incinerators in Taiwan. *Chemosphere*, 55(9) (June 2004) 1197–1205. (SCI)
11. SJ Chen, LT Hsieh, MJ Kao, WY Lin, **KL Huang**, Characteristics of particles sampled in southern Taiwan during the Asian dust-storm periods in 2000 and 2001. *Atmospheric Environment*, 38(35) (Nov. 2004) 5925–5934. (SCI)
12. JJ Lee, **KL Huang**, YY Yu, SC Yang, Laboratory retention of vapor-phase PAHs using XAD adsorbents. *Atmospheric Environment*, 38(36) (Dec. 2004) 6185–6193. (SCI)
13. **KL Huang***, TM Holsen, JR Selman, Tse-Chuan Chou, The electrochemical characteristics of air fuel cell electrodes used in an electrolytic system for spent chromium plating solution regeneration. *J. Power Sources*, 142(1/2) (March 2005) 243–252. (SCI)
14. CH Tsai, **KL Huang**, LT Hsieh, HR Chao, KC Fang, New approach for methane conversion using an rf discharge reactor. 2. Characteristic of polycyclic aromatic hydrocarbon emissions. *Industrial & Engineering Chemistry Research*, 44 (Aug. 2005) 6566–6571. (SCI) (NSC91-2218-E-151-001)
15. CC Lin, SJ Chen, **KL Huang**, WI Hwang, GP Chang-Chien, WY Lin, Characteristics of metals in nano/ultrafine/fine/coarse particles collected beside a heavily-trafficked road. *Environmental Science & Technology*, 39(21) (Nov. 2005) 8113–8122. (SCI)
16. SJ Chen, SY Cheng, MF Shue, **KL Huang**, PJ Tsai, CC Lin, The cytotoxicities induced by PM₁₀ and particle-bound water-soluble species. *Science of the Total*

- Environment* 354 (Jan. 2006) 20–27. (SCI)
17. **KL Huang***, YC Lai, CH Tsai, Effects of sputtering parameters on the performance of electrodes fabricated for proton exchange membrane fuel cells. *J. Power Sources* 156(2) (June 2006) 224–231. (SCI) (NSC92-2211-E-309-002)
 18. CC Lin, SJ Chen, **KL Huang**, WJ Lee, WY Lin, CJ Liao, HC Chaung, CH Chiu, Water-soluble ions in nano/ultrafine/fine/coarse particles collected near a busy road and at a rural site. *Environmental Pollution*, 145 (Jan. 2007) 562–570. (SCI)
 19. SJ Chen, HB Su, JE Chang, WJ Lee, **KL Huang***, LT Hsieh, YC Huang, WY Lin, CC Lin, Emissions of polycyclic aromatic hydrocarbons (PAHs) from the pyrolysis of scrap tires. *Atmospheric Environment*, 41(6) (Feb. 2007) 1209–1220. (SCI: 2.63)
 20. CT Li, WJ Lee, **KL Huang***, SF Fu, YC Lai, Vitrification of chromium electroplating sludge. *Environmental Science & Technology*, 41(8) (April 2007) 2950–2956. (SCI)
 21. HW Li, WJ Lee, **KL Huang**, GP Chang-Chien, Effect of raw materials on emissions of polychlorinated dibenzo-p-dioxins and dibenzofurans from the stack flue gases of secondary aluminum smelters. *Journal of Hazardous Materials*, 147 (Aug. 2007) 776–784. (SCI)
 22. YC Lai, WJ Lee, **KL Huang**, HH Huang, Emissions of polycyclic aromatic hydrocarbons from thermal pre-treatment of waste hydrodesulfurization catalysts. *Chemosphere*, 69 (Sep. 2007) 200–208. (SCI)
 23. KJC Yeh, CY Hsu, CH Chiu, **KL Huang**, Reaction efficiencies and rate constants for the goethite-catalyzed Fenton-like reaction of NAPL-form aromatic hydrocarbons and chloroethylenes. *Journal of Hazardous Materials*, 151/2-3 (March 2008) 562–569. (SCI)
 24. TS Chen, KJC Yeh, **KL Huang***, Anion effects on the electrochemical regeneration of Ce(IV) in nitric acid used for etching chromium. *Journal of Hazardous Materials*, 152/3 (April 2008) 922–928. (SCI)
 25. YC Lai, WJ Lee, **KL Huang***, CM Wu, Metal recovery from spent hydrodesulfurization catalysts using a combined acid-leaching and electrolysis process. *Journal of Hazardous Materials*, 154/1-3 (May 2008) 588–594. (SCI)
 26. CC Lin, SJ Chen, **KL Huang**, WJ Lee, WY Lin, JH Tsai, HC Chaung, PAHs, PAH-induced carcinogenic potency, and particle-extract-induced cytotoxicity of traffic-related nano/ultrafine particles. *Environmental Science & Technology*, 42(11) (June 2008) 4229–4235. (SCI)
 27. TS Chen, **KL Huang***, KJC Yeh, Kinetic and mass transfer parameters for Ce(III) electrooxidation in nitric acid with/without anion impurities. *Journal of The Electrochemical Society*, 156(3) (Jan 2009) E69–E74. (SCI)

28. MT Hu, SJ Chen, **KL Huang**, YC Lin, GP Chang-Chien, Characterization of Polychlorinated dibenzo-p-dioxin/dibenzofuran emissions from joss paper burned in a furnace with air pollution control devices. *Science of the Total Environment*, 407 (March 2009) 3290–3294. (SCI)
29. CC Lin, **KL Huang**, SJ Chen, SC Liu, JH Tsai, YC Lin, WY Lin, NH_4^+ , NO_3^- , and SO_4^{2-} in roadside and rural size-resolved particles and transformation of NO_2/SO_2 to nanoparticle-bound $\text{NO}_3^-/\text{SO}_4^{2-}$. *Atmospheric Environment*, 43 (June 2009) 2731–2736. (SCI)
30. YM Kuo, **KL Huang**, CT Wang, JW Wang, Effect of Al_2O_3 mole fraction and cooling method during vitrification of an artificial hazardous material. Part 1: the resulting crystalline phase and variation of structure. *Journal of Hazardous Materials*, 169(1–3) (Sep. 2009) 626–634. (SCI)
31. YM Kuo, CT Wang, JW Wang, **KL Huang**, Effect of Al_2O_3 mole fraction and cooling method during vitrification of an artificial hazardous material. Part 2: the encapsulation of metals and the resistance to acid. *Journal of Hazardous Materials*, 169(1–3) (Sep. 2009) 635–642. (SCI)
32. MT Hu, SJ Chen, **KL Huang**, YC Lin, GP Chang-Chien, JH Tsai, Characterization of, and health risks from, polychlorinated dibenzo-p-dioxins/dibenzofurans from incense burned in a temple. *Science of the Total Environment*, 407 (June 2009) 4870–4875. (SCI)
33. MEI Ahmed, **KL Huang***, TM Holsen, Nafion-117 behavior during cation separation from spent chromium plating solutions. *Industrial & Engineering Chemistry Research*, 48(14) (July 2009) 6805–6810. (SCI)
34. MT Hu, SJ Chen, YC Lai, **KL Huang**, GP Chang-Chien, JH Tsai, Characteristics of polychlorinated dibenzo-p-dioxins/dibenzofuran from joss paper burned in Taiwanese temples. *Aerosol and Air Quality Research*, 9(3) (June 2009) 369–377. (SCI)
35. **KL Huang***, TS Chen, KJC Yeh, Regeneration of Ce(IV) in simulated spent Cr-etching solutions using an undivided cell. *Journal of Hazardous Materials*, 171(1–3) (Nov. 2009) 755–760. (SCI)
36. **KL Huang***, TS Chen, Electro-regeneration of Ce(IV) in simulated spent Cr-etching solutions containing abundant Ce(III). *Journal of The Electrochemical Society*, 156(12) (Oct. 2009) E192–E198. (SCI)
37. JH Tsai, SJ Chen, **KL Huang**, YC Lin, WJ Lee, CC Lin, PM, Carbon, and PAH emissions from a diesel generator fuelled with soy-biodiesel blends. *Journal of Hazardous Materials*, 179 (March 2010) 237–243. (SCI)
38. MS Wang, SJ Chen, **KL Huang**, YC Lai, GP Chang-Chien, WY Lin, Determination of levels of persistent organic pollutants (PCDD/Fs, PBDD/Fs,

- PBDEs, PCBs, and PBBs) in atmosphere near a municipal solid waste incinerator. *Chemosphere*, 80 (Aug. 2010) 1220–1226. (SCI)
39. MS Wang, SJ Chen, YC Lai, **KL Huang**, GP Chang-Chien, Characterization of persistent organic pollutants in ash collected from different facilities of a municipal solid waste incinerator. *Aerosol and Air Quality Research*, 10 (2010) 391–402. (SCI)
 40. SC Chuang, SJ Chen, **KL Huang**, E MY Wu, GP Chang-Chien, LC Wang, Gas/particle partitioning of dioxins in exhaust gases from automobiles. *Aerosol and Air Quality Research*, 10 (2010) 489–496. (SCI)
 41. SC Chuang, SJ Chen, **KL Huang**, GP Chang-Chien, LC Wang, YC Huang, Emissions of polychlorinated dibenzo-p-dioxin and polychlorinated dibenzofuran from motorcycles. *Aerosol and Air Quality Research*, 10(6) (2010) 533–539. (SCI)
 42. WY Lin, CC Lin, **KL Huang**, JJ Hsu, JY Chiang, JH Tsai, CH Chiu, JY Chiu, SJ Chen, Effect of traffic loading on particle-bound water-soluble ions and carbons collected near a busy road and at an urban site. *Journal of Environmental Science and Health, Part A.*, 45 (2010) 1839–1849. (SCI)
 43. MS Wang, SJ Chen, **KL Huang**, YC Lai, GP Chang-Chien, JH Tsai, Characterization of persistent organic pollutants emitted from a municipal solid waste incinerator in Taiwan. *Environmental Engineering Science*, 27(11) (2010) 955–965. (SCI)
 44. SC Chuang, **KL Huang**, SJ Chen, LC Wang, GP Chang-Chien, JH Tsai, PCDD/F emissions from gasoline and diesel fueled vehicles. *Sustainable Environment Research*, 21(1) (2011) 29–36. (SCIE)
 45. JH Tsai, SJ Chen*, **KL Huang**, WJ Lee, WY Lin, Characteristics of particulate emissions from a diesel generator fueled with varying blends of biodiesel and fossil diesel. *Journal of Environmental Science and Health, Part A*, 46 (2011) 204–213. (SCI)
 46. JH Tsai, **KL Huang**, CH Chiu, CC Lin, WC Kuo, WY Lin, HC Chaung, TH Yang, SJ Chen*, Particle-bound PAHs and particle-extract-induced cytotoxicity of emission from a diesel-generator fuelled with soy-biodiesel, *Aerosol and Air Quality Research*, 11(7) (December 2011) 822–836. (SCI)
 47. CC Lin, **KL Huang**, JH Tsai, WJ Lee, SJ Chen*, SK Lin, Characteristics of water-soluble ions and carbon in fine and coarse particles collected near an open burning site. *Atmospheric Environment*, 51 (May 2012) 39–45. (SCI)
 48. YC Lai, **KL Huang***, CH Tsai, WJ Lee, YL Chen, Sputtered Pt loadings of membrane electrode assemblies in proton exchange membrane fuel cells. *International Journal of Energy Research*, 32(8) (June 2012) 918–927. (SCI)

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49. JH Tsai, SJ Chen*, **KL Huang**, TC Lin, HC Chaung, CH Chiu, JY Chiu, CC Lin, PY Tsai, PM, carbon, PAH, and particle-extract-induced cytotoxicity of emissions from a diesel-generator fueled with waste-edible-oil-biodiesel, *Aerosol and Air Quality Research*, 12(5) (October 2012) 843–855. (SCI)
50. JH Tsai, **KL Huang**, NH Lin, SJ Chen*, TC Lin, SC Chen, CC Lin, SC Hsu, WY Lin, Influence of Asian dust storm and southeast Asian biomass burning on the characteristics of seashore atmospheric aerosols sampled in southern Taiwan, *Aerosol and Air Quality Research*, 12(6) (December 2012) 1105–1115. (SCI)
51. TS Chen, **KL Huang***, YC Lai, YM Kuo, Effects of NH_4^+ on Ce(IV) electro-regeneration in simulated and real spent TFT-LCD Cr-etching solutions. *Journal of Environmental Management*, 104 (Aug. 2012) 85–90. (SCI) (NSC 100-2221-E-020-007-MY2)
52. TS Chen, **KL Huang***, Electrochemical detection and degradation of acetaminophen in aqueous solutions. *International Journal of Electrochemical Science*, 7(8) (Aug. 2012) 6877–6892. (SCI) (NSC 100-2221-E-020-007-MY2 及 NSC-100-2221-E-020-005)
53. TS Chen, **KL Huang***, YC Pan, Electrochemical versus Ce(IV)-Mediated Electrochemical Oxidation (MEO) Degradation of Acetaminophen in Aqueous Solutions. *International Journal of Electrochemical Science*, 7(11) (Nov. 2012) 11191–11205. (SCI) (NSC 100-2221-E-020-007-MY2)
54. TS Chen, **KL Huang***, JL Chen, An electrochemical approach to simultaneous determination of acetaminophen and ofloxacin. *Bulletin of Environmental Contamination and Toxicology*, 89(6) (Dec. 2012) 1284–1288. (SCI) (NSC 100-2221-E-020-007-MY2 & NSC-100-2221-E-020-005)
55. YM Kuo*, **KL Huang**, C Lin, Metal behavior during vitrification of municipal solid waste incinerator fly ash. *Aerosol and Air Quality Research*, 12(6) (Dec. 2012) 1379–1385. (SCI)
56. TS Chen, **KL Huang***, Effect of operating parameters on electrochemical degradation of estriol (E3). *International Journal of Electrochemical Science*, 8(5) (May 2013) 6343–6353. (SCI) (NSC 100-2221-E-020-007-MY2 & NSC-100-2221-E-020-005)
57. TS Chen, YM Kuo, JL Chen, **KL Huang***, Anodic Degradation of ofloxacin on a boron-doped diamond electrode. *International Journal of Electrochemical Science*, 8(6) (June 2013) 7625–7633. (SCI) (NSC 100-2221-E-020-007-MY2 & NSC-100-2221-E-020-005)
58. LC Cheng, SH Wu, **KL Huang**, C Lin, CT Wang, JW Wang, YM Kuo*, Evaluation of effect of reducing additives during vitrification via simulation and

- experiment. *Journal of the Air & Waste Management Association*, 63(10) (2013) 1182–1189. (SCI)
59. R Huang, **KL Huang**, ZY Lin, JW Wang, C Lin, YM Kuo*, Recovery of valuable metals from electroplating sludge with reducing additives via vitrification. *Journal of Environmental Management*, 129 (2013) 586–592. (SCI)
60. TS Chen, **KL Huang***, Electro-regeneration of Ce(IV) in real spent Cr-etching solutions. *Journal of Hazardous Materials*, 262 (Nov. 2013) 775–781. (SCI) (NSC-100-2221-E-020-007-MY2, NSC 102-2221-E-020-001-MY3, and NSC-101-2221-E-020-021)
61. JH Tsai, SJ Chen*, **KL Huang**, WY Lin, WJ Lee, CC Lin, LT Hsieh, JY Chiu, WC Kuo, Emissions from a generator fueled by blends of diesel, biodiesel, acetone, and isopropyl alcohol: analyses of emitted PM, particulate carbon, and PAHs. *Science of the Total Environment*, 466-467 (2014) 195–202. (SCI)
62. JH Tsai, SJ Chen*, **KL Huang**, WY Lin, WJ Lee, HR Chao, CC Lin, LT Hsieh, Emission reduction of NO_x, PM, PM-carbon, and PAHs from a generator fuelled by biodieselhol. *Journal of Hazardous Materials*, 274 (May 2014) 775–781. (SCI)
63. Te-San Chen, Pi-Hui Chen, **Kuo-Lin Huang***, Electrochemical degradation of *N,N*-diethyl-*m*-toluamide on a boron-doped diamond electrode. *Journal of the Taiwan Institute of Chemical Engineers*, 45(5) (Sep. 2014) 2615–2621. (SCI) (NSC 102-2221-E-020-001-MY3)
64. Te-San Chen, Ren-Wei Tsai, Yu-Syuan Chen, **Kuo-Lin Huang***, Electrochemical Degradation of Tetracycline on BDD in Aqueous Solutions. *International Journal of Electrochemical Science*, 9(12) (Dec. 2014) 8422–8434. (SCI) (NSC 102-2221-E-020-001-MY3)
65. Chih-Chung Lin, **Kuo-Lin Huang**, Hsiu-Lin Chen, Jen-Hsiung Tsai, Shui-Jen Chen*, Influences of Beehive Firework Displays on Ambient Fine Particles during the Lantern Festival in the YanShuei Area of Southern. *Aerosol and Air Quality Research*, 14(7) (Dec. 2014) 1998–2009. (SCI)
66. Te-San Chen, Yu-Syuan Chen, Ren-Wei Tsai, **Kuo-Lin Huang***, Anodic Degradation of Caffeine under Different Operating Conditions. *Fresenius Environmental Bulletin*, 24(3) (March 2015) 800–809. (SCI) (NSC 102-2221-E-020-001-MY3)
67. **Kuo-Lin Huang***, Te-San Chen, Pi-Hui Chen, Yi-Ming Kuo, Degradation of *N,N*-diethyl-*m*-toluamid (DEET) on lead dioxide electrodes in different environmental aqueous matrixes. *Journal of Environmental Science and Health, Part A*, 50(9) (June 2015) 931–940. (SCI) (NSC 102-2221-E-020-001-MY3)
68. Jen-Hsiung Tsai, Shui-Jen Chen*, **Kuo-Lin Huang**, Wen-Yinn Lin, Wen-Jhy Lee,

- Lien-Te Hsieh, Size distributions of PM, carbons and PAHs emitted from a generator using blended fuels containing water. *Science of the Total Environment*, 536 (July 2015) 252–260. (SCI)
69. Jen-Hsiung Tsai, Shui-Jen Chen*, **Kuo-Lin Huang**, Wen-Yinn Lin, Chih-Chung Lin, Jyun-Yuan Ding, Cheng-Hsien Yang, Juei-Yu Chiu, Chuen-Huey Chiu, Characteristics of Exhaust Emissions of a Diesel Generator Fueled with Water-Containing Butanol and Waste-Edible-Oil-Biodiesel Blends. *Aerosol and Air Quality Research*, 15 (Oct. 2015) 2129–2139. (SCI)
70. **Kuo-Lin Huang***, Tsung-Hsuan Tsai, Jen-Hsiung Tsai, Shui-Jen Chen, Wen-Jhy Lee, Emission of PAHs from a Single Hydrogen-Oxygen PEM Fuel Cell: In Relation to Fuel Cell Carbon Materials. *Aerosol and Air Quality Research*, 15(7) (Dec. 2015) 2654–2667. (SCI)
71. Jen-Hsiung Tsai, Shui-Jen Chen*, **Kuo-Lin Huang**, Hso-Chi Chaung, Wen-Yinn Lin, Chih-Chung Lin, Tsai-Yuan Wu, Cheng-Hsien Yang, Juei-Yu Chiu, Biological Toxicities of Exhausts from a Diesel-Generator Fueled with Water-Containing Acetone/Butanol and Waste-Edible-Oil-Biodiesel Blends, *Aerosol and Air Quality Research*, 15(7) (Dec. 2015) 2668–2775. (SCI)
72. Yi-Ming Kuo*, Chitsan Lin, Jian-Wen Wang, **Kuo-Lin Huang**, Cheng-Hsien Tsai, Chih-Ta Wang, Characterization of the products attained from a thermal treatment of a mix of zinc-carbon and alkaline batteries. *Environmental Technology*, 37(12) (Jan. 2016) 1490–1500. (SCI)
73. Sheng-Lun Lin, **Kuo-Lin Huang**, I-Ching Wang, I-Cheng Chou, Yi-Ming Kuo*, Chung-Hsien Hung, Chitsan Lin, Characterization of Spent Nickel-Metal Hydride Batteries and a Preliminary Economic Evaluation of the Recovery Processes. *Journal of the Air & Waste Management Association*, 66(3) (March 2016) 296–306. (SCI)
74. **Kuo-Lin Huang***, Te-San Chen, Ren-Wei Tsai, Yu-Syuan Chen, Regeneration of cerium(IV) in different spent chromium-etching solutions from thin-film transistor liquid-crystal display manufacturing factories. *Clean Technologies and Environmental Policy*, 18 (May 2016) 1043–1052. (SCI) (NSC 102-2221-E-020-001-MY3)
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