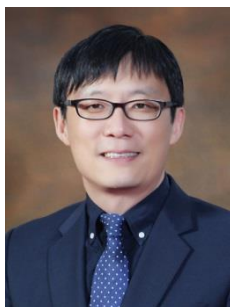


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### Education

- 12/1995-06/1998, Ph.D., Department of Civil & Environmental Engineering, University of California, Los Angeles (UCLA), USA
- 09/1994-12/1995, MS, Department of Civil & Environmental Engineering, University of California, Los Angeles (UCLA), USA
- 03/1991-02/1993. MS, Department of Chemistry, Seoul National University, Korea
- 03/1987-02/1991. BS, Department of Chemistry, Seoul National University, Korea

### Professional Employment

- 03/2000 - To date, Professor, Seoul National University, Korea
- 05/2014 - 04/2016, Associate Dean of School of Public Health, Seoul National University, Korea
- 01/2008 - 12/2008 Visiting Fellow, University of California, Los Angeles, USA
- 03/2006 - 02/2011 Associate Professor, Seoul National University, Korea
- 03/2004 - 02/2006, Chair of Dept. of Environmental Health, Seoul National University,
- 03/2002 - 02/2006, Assistant Professor, Seoul National University, Korea
- 03/2000 - 02/2002, Full-time lecturer, Seoul National University, Korea
- 01/1999 - 12/1999, Postdoctoral Researcher, University of California, Berkeley, USA

### Academic Services

- Associate Editor, Environmental Engineering Research (SCIE Journal), 2014- Present
- Guest Editor, Chemosphere (SCI Journal), 2018-Present
- Guest Editor, Water (SCIE journal), 2018-Present
- Chair of Specialist Group in Micropollutant, Korean Society of Environmental Engineers (KSEE), 2012- Present
- Chair of Specialist Group in Environmental Risk Assessment, Korean Society of Environmental Engineers (KSEE), 2009-2011
- Conference Chair of IWA (International Water Association) 11th Micropol & Ecohazard

Last updated on the 20<sup>th</sup> November, 2019

Conference 2019, Seoul, South Korea (379 delegates from 35 countries)

#### Membership

- American Chemical Society (ACS), Member
- International Water Association (IWA), Member
- Korean Society of Environmental Engineer (KSEE), Director
- Korean Society of Water Environment, Director

#### Patent (Korean)

- A waste water treatment apparatus containing free cyanide (CN-) and heavy metals and wastewater treatment method using the same: #1020180047225, date: 04/24/2018.
- Method of wastewater treatment containing free cyanide and heavymetals-cyanide complex): #1020170066689, date: 05/30/2017.
- Treating method of organic matter in waste water and apparatus of the same: #1020180140582, date: 11/15/2018.

#### Research Interest

- Water Chemistry and Water Treatment
- Monitoring and Treatment of Emerging Contaminants in Water
- Advanced Oxidation Process of Emerging Contaminants in Water and Wastewater

#### Awards & Honors

- Best Paper Award, Korean Society of Environmental Engineers, 2019
- Outstanding Contribution Award in Reviewing, Chemical Engineering Journal, 2018
- Special Achievement Award, Korean Society of Environmental Engineers, 2017
- Excellence Reviewing Award, Chemosphere, 2016
- Best Paper Award, Korean Federation of Science & Technology Societies, 2007
- Best Paper Award, Korean Society of Environmental Engineers, 2006
- Best Paper Award, Korean Society of Waste Management, 2000.

#### Supervision

- Current: 1 Research fellow, 7 PhD & 7 Master's students, and 1 staff
- Previous: 11 PhDs and 30 Master's
- External examiner and PhD committee member for PhD candidates of The Hong Kong Polytechnic University (Hong Kong)

#### Courses Taught

- Undergraduate: Environment and Health
- Graduate: Environmental Chemistry, Advanced Water Chemistry, Water Quality Management, Introduction to Environmental Health, Special Topics on Climate Change

#### Publication

Peer reviewed journals (Total citation 3940, h-index 34, i10-index 66 – Google scholar)

98. (SCI/SCIE) (Corresponding Author) Kim T., Kim T.K., **Zoh K.D.\*** (2020) Removal of Heavy Metals in Industrial Wastewater by Electrocoagulation, Journal of Water Process Engineering (IF: 3.173), Vol. 33. Article 101109. doi.org/10.1016/j.jwpe.2019.101109

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97. (SCI/SCIE) (Coauthor) RA Putri, S Safni\*, N. Jamarun, U. Septiani, MK Kim, **Zoh, K.D.**, (2020) Degradation and Mineralization of Violet-3B Dye using C-N-codoped TiO<sub>2</sub> Photocatalyst. *Environmental Engineering Research*, doi.org/10.4491/eer.2019.196
- 96 (SCI/SCIE) (Coauthor) RA Putri, S Safni, N Jamarun, U Septiani, MK Kim, **Zoh, K.D.** (2020) Kinetics studies on photodegradation of methyl orange in the presence of CN-codoped TiO<sub>2</sub> catalyst. *Egyptian Journal of Chemistry*. DOI: 10.21608/EJCHEM.2019.14543.1883
95. (SCI/SCIE) (Corresponding Author) Park, T.J., Lee, S.H., Lee, M.S., Lee, J.K., **Zoh, K.D.\*** (2020) Occurrence of Microplastics in the Han River and Riverine Fish in South Korea. *Science of the Total Environment*, Article 134535.
94. (SCI/SCIE) (Corresponding Author) Lee, Y. M. Lee, J. Y., Kim, M. K., Yang H., Lee, J. E., Son, Y., Kho, Y., Choi, K., **Zoh K. D.\*** (2020) Concentration and distribution of per- and polyfluoroalkyl substances (PFAS) in the Asan Lake area of South Korea. *Journal of Hazardous Materials* 381(5), Article 120909.
93. (SCI/SCIE) (Coauthor) Park, S., Jo, A., Choi, J., Kim, J., **Zoh, K.D.**, Choi, K.\* (2019) Rapid screening for ecotoxicity of plating and semiconductor wastewater employing the heartbeat of *Daphnia magna*. *Ecotoxicology and Environmental Safety* 186, article 109721.
92. (SCI/SCIE) (Corresponding Author) Kang, Y. M., Kim, M. K., Kim, T, Kim, T. K., **Zoh K. D.\*** (2019) Occurrence and Fate of Micropollutants in Private Wastewater Treatment Facility (WTF) and Their Impact on Receiving Water, *Environmental Management* 64(5), 650-660.
91. (SCI/SCIE) (Corresponding Author) Lee, Y. M., Lee, J. E., Choe, W., Kim, T., Lee, J. Y., **Zoh, K.D.\*** (2019) Distribution of Phthalate esters in Air, Water, Sediments, and Fish in the Asan Lake of Korea, *Environment International* 126, 635-643.
90. (SCI/SCIE) (Corresponding Author) Kim, T., Kim, T. K., **Zoh, K.D.\***(2019) Degradation kinetics and pathways of  $\beta$ -cyclocitral and  $\beta$ -ionone during UVphotolysis and UV/chlorination reactions. *Journal of Environmental Management* 239, 8-16.
89. (SCI/SCIE) (Corresponding Author) Won, A. Y., Kim, M. K., **Zoh, K.D.\*** (2019) Characteristics of Total and Methyl Mercury in Precipitation in Seoul, Korea, *Atmospheric Pollution Research* 10, 493-500.
88. (SCI/SCIE) (Corresponding Author) Lee. J. E., Kim, M.K., Lee, J.Y., Lee, Y.M., **Zoh, K.D.\*** (2019) Degradation kinetics and byproducts pathway of 1H-benzotriazole during UV/chlorination process, *Chemical Engineering Research* 359, 1502-1508.
87. (SCI/SCIE) (Corresponding Author) Kim, T.K., Kim, T., Jo, A., Park, S., Choi K., **Zoh, K. D.\*** (2018) Degradation Mechanism of Cyanide in Water Using a UV-LED/H<sub>2</sub>O<sub>2</sub>/Cu<sup>2+</sup> System, *Chemosphere* 208, 441-449.
86. (SCI/SCIE) (Corresponding Author) Kang, Y. M., **Zoh, K.D.\*** (2018) Effect of nitrate, carbonate/bicarbonate, humic acid, and H<sub>2</sub>O<sub>2</sub> on the kinetics and degradation mechanism of Bisphenol-A during UV photolysis, *Chemosphere* 204, 148-155
85. (SCI) (Corresponding Author) Lea T.T.N., Ly N. H., Nguyen, T. D., **Zoh, K.D.\***, Joo S. W.\* (2018) In situ Raman spectroscopic monitoring of organic dyes and ferric ions in Fenton reactions on sharp-edged gold nanostar surfaces, *Colloids and Surfaces A: Physicochemical and Engineering* 551, 1-8.
84. (SCI/SCIE) (Corresponding Author) Park, T. J., **Zoh, K.D.\***, et al. (2018) Development of Water Quality Criteria of Ammonia for Protecting Aquatic Life in Freshwater using Species Sensitivity Distribution Method, *Science of the Total Environment* 634, 934–940.
83. (SCI/SCIE) (Corresponding Author) Kim, T. K., Kim, T., Choi W.S., Jung, Y. J., **Zoh, K.D.\*** (2018) Removal of heavy metals in electroplating wastewater by powdered

- activated carbon (PAC) and sodium diethyldithiocarbamate-modified PAC, *Environmental Engineering Research* 23, 301-308.
82. (SCI/SCIE) (Corresponding Author) Kweon, D. J., Kim M.K., **Zoh, K.D.\*** (2018) Distribution of Brominated Flame Retardants and Phthalate Esters in House Dust in Korea, *Environmental Engineering Research* 23, 1-10.
  81. (SCI/SCIE) (Corresponding Author) Tak, S.Y., Kim. M. K., Lee, J. E., Lee, Y. M., **Zoh, K.D.\*** (2018) Degradation Mechanism of Anatoxin-a in UV-C/H<sub>2</sub>O<sub>2</sub> Reaction, *Chemical Engineering Journal* 334, 1016-1022.
  80. (SCI/SCIE) (Corresponding Author) Moon BR, Kim TY, Kim M.K., Choi JW, **Zoh, K.D.\*** (2017) Degradation Mechanisms of Microcystin-LR during UV Photolysis and UV/H<sub>2</sub>O<sub>2</sub> Reactions: By-products and Pathways. *Chemosphere* 185, 1039-1047.
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  78. (SCI/SCIE) (Corresponding Author) Nam, S.W., Yoon, Y.M., Chae S., Kang J., **Zoh. K.D.\*** (2017) Removals of Selected Micropollutant during Conventional and Advanced Water Treatment Processes, *Environmental Engineering Science* 34, 752-761.
  77. (SCI/SCIE) (Corresponding Author) Kwon, D.S., Tak, S. Y., Lee, J. E., Kim, M. K., Lee, Y. H., Han, D. W. , Kang, S., **Zoh, K.D.\*** (2017) Desorption of Micropollutant from Spent Carbon Filter Used in the Water Purifiers, *Environmental Sciences and Pollution Research* 24, 17606–17615.
  76. (SCI/SCIE) (Corresponding Author) Hwang, K. L., Choi, S. M., Kim, M. K., Heo, J. B., **Zoh, K.D.\*** (2017) Emission of greenhouse gases from waste incineration in Korea, *Journal of Environmental Management* 196, 710-718.
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  73. (SCI/SCIE) (Corresponding Author) Kim, M. K., **Zoh, K.D.\*** (2016) Occurrence and removals of micropollutants in water environment, *Environmental Engineering Research* 21, 319-332.
  72. (SCI/SCIE) (Corresponding Author) Hwang, K. L., Bang C.H., Zoh, K.D.\* (2016) Characteristics of methane and nitrous oxide emissions from the wastewater treatment plant, *Bioresource Technology* 214, 881-884.
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  69. (SCI/SCIE) (Corresponding Author) Choi, Y.J.. Kim, L.H., **Zoh, K.D.\*** (2016) Removal characteristics and mechanism of antibiotics using constructed wetlands. *Ecological Engineering* 91, 85-92.
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- diclofenac and sulfamethoxazole to graphene oxide in aqueous solution, *Chemosphere* 135, 20-26.
67. (SCI/SCIE) (Corresponding Author) Choi, J.K., Ban, S.J., Kim, Y.P., Kim, Y.H., **Zoh, K.D.\*** (2015) Molecular marker characterization and source appointment of particulate matter and its organic aerosols, *Chemosphere* 134, 482-491.
66. (SCI/SCIE) (Coauthor) Jung, C.I., Son, A., Her, N.G., **Zoh, K.D.**, Cho, J.W., Yoon, Y.M.\* (2015) Removal of endocrine disrupting compounds, pharmaceuticals, and personal care products in water using carbon nanotubes: A review, *Journal of Industrial and Engineering Chemistry* 27, 1-11.
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63. (SCI/SCIE) (Coauthor) Seo, Y.S., Han, Y.J., Holsen, T.M., Choi, E, **Zoh, K.D.**, Yi, S.M.\* (2015) Source Identification of Total Mercury (TM) Wet Deposition using a Lagrangian Particle Dispersion Model (LPDM), *Atmospheric Environment* 104, 102-111.
62. (SCI/SCIE) (Corresponding Author) Nam, S.W., Yoon, Y., Choi, D., **Zoh, K.D.\*** (2015) Degradation Characteristics of Metoprolol during UV/Chlorination Reaction and a Factorial Design Optimization, *Journal of Hazardous Materials* 285, 453-463.
61. (SCI/SCIE) (Coauthor) Im, J.K., Yoon, J, Her N., Han J., **Zoh, K.D.**, Yoon Y.M.\* (2015) Sonocatalytic-TiO<sub>2</sub> nanotube, Fenton, and CCl<sub>4</sub> reactions for enhanced oxidation, and their applications to acetaminophen and naproxen degradation, *Separation and Purification Technology* 141, 1-9.
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59. (SCI/SCIE) (Corresponding Author) Kim, I.Y., Kim, M.K., Im J.K., **Zoh, K.D.\*** (2014) Kinetics and Degradation Mechanism of Clofibric acid and Diclofenac in UV Photolysis and UV/H<sub>2</sub>O<sub>2</sub> reaction, *Desalination and Water Treatment* 52, 6211-6218.
58. (SCI/SCIE) (Corresponding Author) Nam, S.W., Choi, D.J., Kim, S.K., Her, N.G., **Zoh, K.D.\*** (2014) Adsorption characteristics of selected hydrophilic and hydrophobic micropollutants in water using activated carbon, *Journal of Hazardous Materials* 270, 144-152.
57. (SCI/SCIE) (Corresponding Author) Im, J.K., Yoon, Y., **Zoh, K.D.\*** (2014) Optimization of naproxen and ibuprofen removal in photolysis using a Box-Behnken design: Effect of Fe(III), NO<sub>3</sub><sup>-</sup> and humic acid. *Journal of Environmental Science and Health, Part A* 49, 422-433.
56. (SCI/SCIE) (Coauthor) Im, J.K., Boateng, L., Flora, J., Her, N.G., **Zoh, K.D.**, Yoon, Y.M.\* (2014) Enhanced ultrasonic degradation of acetaminophen and naproxen in the presence of powdered activated carbon and biochar adsorbents, *Separation and Purification Technology* 123, 96–105.
55. (SCI/SCIE) (Corresponding Author) Nam, S.W., **Zoh, K.D.\*** (2014) Occurrence and removal of selected micropollutants in a water treatment plant, *Chemosphere* 95, 156-165.
54. (SCI/SCIE) (Corresponding Author) Kim, S.K., Li, D.H., Shoeib, M., **Zoh, K.D.\*** (2014) Contribution of diffuse inputs to the aqueous mass load of perfluoroalkyl acids in river and stream catchments in Korea, *Science of The Total Environment* 470-471, 1430-1440.

53. (SCI/SCIE) (Corresponding Author) Lee, J., Kim, E.S., Rho, B.S., Eom, S.W., **Zoh, K.D.\*** (2013). Occurrence of Disinfection Byproducts in Tap Water Distribution Systems and Their Associated Health Risk. *Environmental Monitoring & Assessment* 185, 7675-7691.
52. (SCI/SCIE) (Coauthor) Im, J.K., Heo, J.Y., Boateng, L., Her, N.G., Flora, J., Yoon, J.K., **Zoh, K.D.**, Yoon, Y.M.\* (2013) Ultrasonic degradation of acetaminophen and naproxen in the presence of single-walled carbon nanotubes, *Journal of Hazardous Materials* 254-255, 254-255.
51. (SCI/SCIE) (Corresponding Author) Kim, M. K., **Zoh, K.D.\***(2013) Effects of natural water constituents on the photo-decomposition of methylmercury and the role of hydroxyl radical *Science of the Total Environment* 449, 95-101.
50. (SCI/SCIE) (Corresponding Author) Choi, J. K., Heo, J. B., Ban, S. J., **Zoh, K.D.\*** (2013) Source Apportionment of PM<sub>2.5</sub> at the coastal area in Korea, *Science of the Total Environment* 447, 370-380.
49. (SCI/SCIE) (Corresponding Author) Nam, S. W., Jo, B. I., Kim, M. K., Kim, W. K., **Zoh, K.D.\*** (2013). Streaming Current Titration for Coagulation of High Turbidity Water. *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 419, 133-139.
48. (SCI/SCIE) (Corresponding Author) Im, J. K., Kim, M. K., **Zoh, K.D.\*** (2013) Optimization of Photolysis of Diclofenac Using a Response Surface Methodology. *Water Science and Technology* 67, 907-914.
47. (SCI/SCIE) (Corresponding Author) Choi, J. K., Heo, J. B., Ban, S. J., Yi, S. Y., **Zoh, K.D.\*** (2012). Chemical characteristics of PM<sub>2.5</sub> aerosol in Incheon, Korea. *Atmospheric Environment* 60, 583-593.
46. (non SCI) (Corresponding Author) Kim, M. K., **Zoh, K.D.\*** (2012) Fate and Transport of Mercury in Environmental Media and Human Exposure. *Journal of Preventive Medicine & Public Health* 45, 335-343.
45. (SCI/SCIE) (Coauthor) Im, J. K.\* , **Zoh, K.D.** (2012) Application of response surface method to carbamazepine removal in photo-ozonation reaction under alkaline condition. *Water Science & Technology* 67, 74-81.
44. (SCI/SCIE) (Coauthor) Son, H. S., **Zoh, K.D.** (2012). Effects of Methanol and Carbon Tetrachloride on Sonolysis of 1,4-Dioxane in Relation to Temperature. *Industrial & Engineering Chemistry Research* 51, 8939-8944.
43. (SCI/SCIE) (Corresponding Author) Im, J. K., Son, H. S., Kim, I. Y., **Zoh, K.D.\*** (2012) Carbamazepine Degradation by Photolysis and TiO<sub>2</sub> Photocatalysis. *Water Environment Research* 84, 554-561.
42. (SCI/SCIE) (Corresponding Author) Kim, S. K., Im, J. K., Kang, Y. M., Jung, S. Y., Kho, Y. L., **Zoh, K.D.\*** (2012) Wastewater treatment plants (WWTPs)-derived national discharge loads of perfluorinated compounds (PFCs). *Journal of Hazardous Materials* 201-202, 82-91.
41. (SCI/SCIE) (Corresponding Author) Im, J. K., Cho, I. H., Kim, S. K., **Zoh, K.D.\*** (2012). Optimization of carbamazepine removal in O<sub>3</sub>/UV/H<sub>2</sub>O<sub>2</sub> system using a response surface methodology with central composite design. *Desalination* 285, 306-314.
40. (SCI/SCIE) (Corresponding Author) Im, J. K., Son H. S., Kim, S. K., Lee, H. K., Kim, J., **Zoh, K.D.\*** (2011). Effect of Frequency on the sonolytic on the sonolytic degradation of carbon tetrachloride. *Sustainable Environment Research* 21, 167-172.
39. (SCI/SCIE) (Corresponding Author) Im, J. K., Son, H. S., **Zoh, K.D.\*** (2011). Perchlorate removal in Fe<sup>0</sup>/H<sub>2</sub>O systems: Impact of UV and oxygen availability. *Journal of Hazardous Materials* 192, 457-464.

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37. (SCI/SCIE) (Corresponding Author) Yoo, H. J., Kim, J., Kim, Y. H., Yi, S. M., **Zoh, K.D.\*** (2011). Analysis of black carbon, particulate matter, and gaseous pollutants in an industrial area in Korea. *Atmospheric Environment* 45, 7698-7704.
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35. (SCI/SCIE) (Coauthor) Lee, J. S., Lee, **Zoh, K.D.**, Kang, H.\* (2011) Methane concentrations and methanotrophic community structure influence the response of soil methane oxidation to nitrogen content in a temperate forest. *Soil Biology & Biochemistry* 43, 620-627.
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31. (SCI/SCIE) (Corresponding Author) Son, H. S., Ko, G., **Zoh, K.D.\*** (2009). Kinetics and Mechanism of TiO<sub>2</sub> Adsorption, Photolysis, and Photocatalysis of Triclosan. *Journal of Hazardous Materials* 166, 954-960.
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25. (SCI/SCIE) (Coauthor) Kim, J. K., Choi, K.\* , Cho, I. H., Son, H. S., **Zoh, K.D.** (2007) Application of a Microbial Toxicity Assay for Monitoring Treatment Effectiveness of Pentachlorophenol in Water using UV Photolysis and TiO<sub>2</sub> Photocatalysis. *Journal of Hazardous Materials* 148, 281-286.

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22. (SCI/SCIE) (Corresponding Author) Cho, I. H., **Zoh, K.D.**\* (2007) Photocatalytic Degradation of azo dye (Reactive Red 120) in TiO<sub>2</sub>/UV System: Optimization and Modeling using a Response Surface Methodology (RSM) based on the Central Composite Design. *Dye and Pigments* 75(3), 533-543.
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