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Education

Ph.D. of Environmental Health Engineering, Tehran University of Medical Sciences, School of Public Health, Dept. of Environmental Health. Tehran, Iran.

- Thesis: *Efficiency Evaluation of Ultrasound-Enhanced Fenton-Like Process for Degradation of Diclofenac from Effluent of Pharmaceutical Industries and Toxicity Assessment*

Master of Science, Environmental Engineering, Islamic Azad University, Tehran Science and Research Branch, Dept. of Energy and Environment, Tehran, Iran. 2007-2010

- Thesis: *Investigation on ultrasonic irradiation (USI) efficiency in removing of organophosphate pesticides from water.*

Bachelor of Science, Environmental Health, Tehran University of Medical Sciences, School of Public Health, Dept. of Environmental Health. Tehran, Iran. 2005-2007

Short Courses

DAAD Certification(Short course) on Water and Human Health in Urban Systems – Toxicology and epidemiology, microbiology and risk assessment, University of Duisburg-Essen, Germany, 2014.

DAAD Certification(Short course) on Enhanced Technologies for Water and Wastewater treatment in urban systems. University of Duisburg-Essen, Germany, 2012.

Research Interests

- *AI application in Health, Safety and Environment*
- *Solid waste management*
- *Sonochemistry in waste treatment.*
- *Analytical methods to determine the fate of pollutants.*

- • *Innovative waste and wastewater treatment technologies.*
- • *Disaster solid waste management.*
- *AOP processes in water and wastewater treatment.*
- *Study of emerging and micro-pollutants.*
- *Health, Safety and Environment.*
- *Bioassay and toxicity assessment.*

Publications, Presentations and Abstracts

Conference Presentation

- *Evaluation of USBF system compared with the SBR system in wastewater treatment. The Second National Technical Conference of Environmental Engineering. (in Persian) Tehran. Iran 2006.*
- *Safe drinking water supply for rural areas in emergency situations. The First National Conference on Environment and Sustainable Development of Rural. Tehran. (in Persian) Iran 2007.*
- *Evaluation of leachate treatment systems in new and existing landfill sites - the National Congress of Renewable Organic Matter Recycling in Agriculture. (in Persian) Isfahan. Iran 2007.*
- *Comparative evaluation of people attitudes in the rural province of Kurdistan in providing home composting and composting plant - The First National Conference on Environment and Sustainable Development of Rural. (in Persian) Tehran. Iran 2007.*
- *Nano-catalysts applications in environment - Health Sciences Conference with a Focus on Nanotechnology. (in Persian) Tehran. Iran. 2008*
- *Hospital waste management with the goal of reducing the waste volume and selecting the best option for the minimization of the waste stream (hospital Dr. Shariati, Tehran) - The Second National Conference of Global Environment Day – University of Tehran. Tehran. (in Persian) Iran. 2008*
- *Management of drinking water consumption in Zahedan - The First National Conference on Science and Technology, Water and Wastewater. (in Persian) Ahwaz. Iran. 2011*

Journal Publication

- *Evaluation of organophosphate insecticides by different methods and the introduction of ultrasound technology as a novel technique. Published in the Journal of Water and the Environment. (in Persian) Water and Wastewater Engineering Company. 2010*
- *Microbiological quality of drinking water in rural areas of Divandareh (Kurdistan-Iran). Archive of Hygienic Sciences Journal- Qom University of Medical Sciences and Health Services. 2013.*
- *Evaluation of chemical quality and salinity origin of groundwater in a semi arid area; Seyed Gholi region Saveh, Iran. Archive of Hygienic Sciences Journal- Qom University of Medical Sciences and Health Services. 2015.*
- *Investigation of the levels of air criteria pollutants effecting on health in Dogonbadan city and description of air quality using AQI index. ACTA MEDICA MEDITERRANEA, International Journal of Clinical Medicine. 2015*
- *Functionalization of single-walled (n,0) carbon and boron nitride nanotubes by carbonyl derivatives (n = 5, 6): a DFT study. Canadian journal of chemistry. 2015.*
- *Degradation of Azinphos-methyl and Chlorpyrifos from aqueous solutions by ultrasound treatment. Journal of Molecular Liquids. 2016.*
- *Rapid destruction of the non-steroidal anti-inflammatory drug diclofenac using advanced nano-Fenton process in aqueous solution, ACTA MEDICA MEDITERRANEA, 2017.*

- *Chemical Coagulation Efficiency in Removal of Water Turbidity-Review, INTERNATIONAL JOURNAL OF PHARMACEUTICAL RESEARCH 10 (3), 188-194, 2018.*
- *Enhancement adsorption of hexavalent chromium onto modified fly ash from aqueous solution; optimization; isotherm, kinetic and thermodynamic study, JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY, 2018.*
- *Comparison of bottled waters current brands in term of important chemical parameters(Nitrate, fluoride, chloride, sulfate)effecting on health , INTERNATIONAL JOURNAL OF PHARMACEUTICAL RESEARCH, 2018.*
- *Solid waste characterization and management practices in rural communities, Tehran and Alborz (Iran)) JOURNAL OF SOLID WASTE TECHNOLOGY AND MANAGEMENT VOLUME 45, NO. 1 FEBRUARY 2019.*
- *Reduction of dinitrotoluene by hydrated electrons generated from UV irradiation of toluene in wastewater: Towards cleaner production, JOURNAL OF CLEANER PRODUCTION, 2019*
- *Surveying the utilization of aluminum chloride in water treatment, INTERNATIONAL JOURNAL OF PHARMACEUTICAL RESEARCH, 2018.*
- **BOOK**-*Water Treatment and Pathogens Control.* (in Persian). Ghashieh Publication 2011.

Professional Experiences

-Senior of Rayab Consultant Engineers Company. (2008-2013)

- Integrated solid waste management of Kish Island.
- Rural waste management in three Northern provinces of Iran
- Sewer and wastewater treatment plant design of Sirjan City, Iran.
- Sewer and wastewater treatment plant design of Kish Island, Iran.
- Sewer and wastewater treatment plant of Hashtgerd City, Iran.
- Sewer and wastewater treatment plant of Pardis New town, Iran.

-Consultant of Iranian Association of Environmental Assessment. (Part time-2008-2009)

- Standard compiling for Environmental Impact Assessment of defense centers.
- Standard compiling for optimizing of fuel consumption in military industries.

-Consultant of Petrochemical and Refinery Companies. (2018-2019)

- Treatment and disposal of heavy oil sludge in refinery sites.

Research Experiences

- Performance evaluation of ultrasound reactor in dye removal from textile effluent. Tehran University of Medical Sciences, School of Public Health, Dept. of Environmental Health. Project No. 2454. 2008-2009
- Performance evaluation of ultrasound reactor in surfactants removal from industrial wastewater. Assistant of research project. Tehran University of Medical Sciences, School of Public Health, Dept. of Environmental Health. Project No. 3401. 2008-2010
- Efficiency Evaluation of Ultrasound-Enhanced Fenton-Like Process for Degradation of Diclofenac from Effluent of Pharmaceutical Industries and Toxicity Assessment. Tehran University of Medical Sciences, School of Public Health, Dept. of Environmental Health. Project No. 28790. 2015-2017
- Feasibility study of chromium (VI) removal from aqueous solution using fly ash. Shahid Beheshti University of Medical Sciences, School of Public Health and Safety, Dept. of Health , Safety and Environmental. Project No. 11392. 2017-2018
- Health, Safety and Environment status in Shahid Labafinejad Hospital survey using Native Health Promotion tool. Shahid Beheshti University of Medical Sciences, School of Public Health and Safety, Dept. of Health , Safety and Environmental. Project No. 15337. 2018-2019

Teaching Experiences

Lecturer: Water Treatment, Dept. of Health sciences, Shahid Beheshti University of medical sciences, Tehran, Iran. 2013-2016

Lecturer: Operation and Maintenance of water and wastewater facilities, Dept. of Health Sciences, Shahid Beheshti University of Medical sciences. Tehran, Iran. 2012-2017

Lecturer: Dynamics of aerosols, Dept. of Health Sciences, Shahid Beheshti University of Medical sciences. Tehran, Iran. 2016-2019

Lecturer: Environmental Health.1, Dept. of Public Health, Tehran University of Medical sciences. Tehran, Iran. 2011

Lecturer: Hydraulic.3, Dept. of Civil, University of Applied Science and Technology, Quick Build Center. Tehran, Iran. 2012

Lecturer: Health and safety.1, Dept. of Civil, University of Applied Science and Technology, Quick Build Center. Tehran, Iran. 2012

Lecturer: Statics, Dept. of Health Sciences, Shahid Beheshti University of Medical sciences. Tehran, Iran. 2016-2020

Lecturer: Fluid Mechanics, Dept. of Health Sciences, Shahid Beheshti University of Medical sciences. Tehran, Iran. 2016-2020

Lecturer: Safety Technical Language, Dept. of Health Sciences, Shahid Beheshti University of Medical sciences. Tehran, Iran. 2016-2020

Teaching Assistant

Urban Design.3, Dept. of Urban Architecture, University of Shahid Beheshti, Tehran, Iran. 2012

Experiences as Journal Reviewer

- Reviewer of Journal of Health in the Field (*In Persian*). Shahid Beheshti University of Medical sciences. 2015-2019
- Reviewer of Journal of Safety Promotion and Injury Prevention (*In Persian*). Shahid Beheshti University of Medical sciences. 2016-2018
- Reviewer of Journal of Environmental Health Science and Engineering. Springer. 2017-2019

Community Involvement / Administrative Activity

- Certificated in DAAD
- Member of Scientific and Executive Committee of Health Sciences Conference. Tehran University of Medical Sciences.
- Member of Iranian Association of Environmental Assessment
- Member of Iranian Association of Environmental Health.