CURRICULUM VITAE

Name: Dr. Hiwa Hossaini

Position:

- Associated Professor of Environmental Health, Department of Environmental Health Engineering, School of Health, Kermanshah University of Medical Sciences, Kermanshah, Iran (2020- present)
- Head of department of Environmental Health Engineering, School of Health, Kermanshah University of Medical Sciences, Kermanshah, Iran (April 2019-April 2021)
- Assistant Professor of Environmental Health, Department of Environmental Health Engineering, School of Health, Kermanshah University of Medical Sciences, Kermanshah, Iran (2015-2020)
- Research Center for Environmental Determinants of Health, Kermanshah University of Medical Sciences, Kermanshah, Iran (2018-present)
- Research Institute for Health, Kermanshah University of Medical Sciences, Kermanshah, Iran (2018-present)

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- Environmental Health Engineering Department, Public Health School, Isar Square, Kermanshah University of Medical Sciences, Kermanshah, Iran.
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➢ Fields of research:

- Advanced oxidation
- Sanitary Engineering
- Air Pollution control

➢ Academic Experience:

- **Bachelor of Science (B.Sc.,)**, Environmental Health, Public Health School, Tehran University of medical sciences, Tehran, Iran
- **Master of Science (M.Sc.,)**, Environmental Health Engineering, Public Health School, Kerman University of Medical Sciences, Kerman, Iran
- **Ph.D.,** Environmental Health Engineering, Tarbiat Modares University, Tehran, Iran

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➢ Published Papers in International Journals:

1. Improving natural organic matter and turbidity removal from surface water by pre-coagulation combined with ozone/ultrasound, ***Water Supply***, 2021.
2. The hybrid system successfully to consisting of activated sludge and biofilter process from hospital wastewater: Ecotoxicological study, ***Journal of Environmental Management***, 2020.
3. Synthesized Cr/TiO2 immobilized on pumice powder for photochemical degradation of acid orange-7 dye under UV/visible light: influential operating factors, optimization, and modeling, ***Journal of Environmental Health Science and Engineering***, 2020.
4. Coupling effect of ozone/ultrasound with coagulation for improving NOM and turbidity removal from surface water, ***Journal of Water Process Engineering***, 2020.
5. Zeolite-intermittent cycle moving bed air-lift bioreactor (Zeo-ICMBABR) for composting leachate treatment; simultaneous COD, nitrogen and phosphorous compounds removal, ***Journal of Environmental Health Science and Engineering***, 2020.
6. Optimization of photocatalytic degradation of methyl orange using immobilized scoria-Ni/TiO 2 nanoparticles, ***Journal of Nanostructure in Chemistry***, 2020.

7. Reclamation of hospital secondary treatment effluent by sulfate radicals based–advanced oxidation processes (SR-AOPs) for removal of antibiotics, ***Microchemical Journal***, 2020.
8. Evaluation of a zeolite/anaerobic buffled reactor hybrid system for treatment of low bio-degradable effluents, ***Materials Science and Engineering: C***, 2019.
9. An overview on ultraviolet persulfate based advances oxidation process for removal of antibiotics from aqueous solutions: a systematic review, ***Desalination and Water Treatment***, 2019
10. An experimental study on the influence of zeolite on changes of pH and alkalinity in anaerobic treatment of compost leachate, ***Environmental Quality Management***, 2020.
11. Ultraviolet activated persulfate based AOP for MTBE decomposition in aqueous solution, ***Desalination and Water Treatment***, 2019
12. Removal of phosphates from aqueous solution by sepiolite-nano zero valent iron composite optimization with response surface methodology, ***International journal of environmental science and technology***, 2018.
13. Evaluation of anaerobic stabilization pond for removal of pentachlorophenol from wastewater: response surface methodology, ***Desalination and Water Treatment***, 2018.
14. Preparation and characterization of modified sepiolite for the removal of Acid green 20 from aqueous solutions: isotherm, kinetic and process optimization, ***Applied Water Science***, 2018.
15. A review of adverse effects and benefits of nitrate and nitrite in drinking water and food on human health, ***Health Scope***, 2017.
16. Removal of metoprolol from water by sepiolite-supported nanoscale zero-valent iron, ***Journal of environmental chemical engineering***, 2017.
17. Oxidation of diazinon in cns-ZnO/LED photocatalytic process: Catalyst preparation, photocatalytic examination, and toxicity bioassay of oxidation by-products, ***Separation and Purification Technology***, 2017.
18. Preparation and characterization of TiO2 incorporated 13X molecular sieves for photocatalytic removal of acetaminophen from aqueous solutions, ***Process Safety and Environmental Protection***, 2016.
19. A commentary on microbial cellulose, Int J Health Life Sci, 2016.
20. A Letter: Zika Virus (ZIKV) and Wastewater Treatment Plants, 2016.
21. Acetaminophen removal from aqueous solutions by TiO2-X photo catalyst, ***Tolooebehdasht***, 2016.
22. Comparing the efficacy of UVC, UVC/ZnO and VUV processes for oxidation of organophosphate pesticides in water solutions, ***Journal of Photochemistry and Photobiology A: Chemistry***, 2016
23. Degradation and mineralization of diazinon pesticide in UVC and UVC/TiO2 process, ***Desalination and Water Treatment***, 2016.

24. Investigation of ammonium ion adsorption onto regenerated spent bleaching earth: parameters and equilibrium study, ***Environmental Engineering & Management Journal (EEMJ)***, 2016.
25. Lead levels in powders of surma (Kohl) used in Kerman, ***Journal of Kerman University of Medical Sciences***, 2015.
26. Evaluation of the environment, health and safety (EH&S) state of laboratories at the Environmental Health Department, School of Public Health, Kermanshah University of Medical sciences, ***IJHLS***, 2016.
27. The investigation of the LED-activated FeFNS-TiO2 nanocatalyst for photocatalytic degradation and mineralization of organophosphate pesticides in water, ***Water Research***, 2014.
28. Comparing the efficacy of UVC, UVC/ZnO and VUV processes for oxidation of organophosphate pesticides in water, Journal of ***Photochemistry and Photobiology A: Chemistry***, 2014.
29. Bacterial-aerosol emission from wastewater treatment plant, ***Desalination and water treatment***, 2013.
30. Efficiency of perlite as a low cost adsorbent applied to removal of Pb and Cd from paint industry effluent, ***Desalination and water treatment***, 2011.
31. Removal of heavy metals from paint industry's wastewater using Leca as an available adsorbent, ***International Journal of Environmental Science & Technology***, 2009.
32. Pb and Co removal from paint industries effluent using wood ash, ***International Journal of Environmental Science & Technology***, 2008.

➢ List of Research Projects:

Working as a PI or co-PI for more than **39** Environmental research projects, majority in the fields of Air pollution control, water and wastewater treatment & sanitary.

Available from (in Persian):
http://research.kums.ac.ir/webdocument/load.action?webdocument_code=8000&masterCode=3004261