

Curriculum Vitae

Personal Information

Name: Mohsen Heidari

Date and place of Birth: 1984-Ardestan

Marital Status: Married

Email: Moheidari@modares.ac.ir; Moheidari84@gmail.com

Tel: +98 21 8288 4802

Fax: +98 21 8288 4580

Educational Background

Degree	Major	Institute	Year of Graduation
Ph.D	Environmental Health Engineering	Isfahan University of Medical Sciences	2014
M.Sc	Environmental Health Engineering	Tehran University of Medical Sciences	2009
B.Sc	Environmental Health Engineering	Tehran University of Medical Sciences	2006

Scientific Position

1- Assistant Professor of Environmental Health Engineering, Department of Environmental Health Engineering, Faculty of Medical Sciences, Tarbiat Modares University, 2019-Present

2- Assistant Professor of Environmental Health Engineering, Department of Environmental Health Engineering, Faculty of Health, Hormozgan University of Medical Sciences, 2014-2019

Course Teaching

Ph.D

1. Applied Statistics in Environmental Health Research
- 2- Assessment and Management of Environmental Health Risks

3- Modeling in Environmental Health Science and Engineering

Msc

- 1- Environmental Epidemiology
- 2- Research Methodology
- 3- Assessment of Development Impacts on Environment

Membership

1. Member of Iranian Society of Environmental Health

Books (Persian)

- 1- Air Pollution; its origin and control, Nass publisher (Translated)
- 2- Air pollutants dispersion modeling; Gaussian model principles and problem-solving guide, Khaniran Publisher
- 3- Constructed Wetlands; Wastewater treatment systems for developing countries, IUMS publisher

Papers

- 1- Heidari M, Darijani T, Alipour V. Heavy metal pollution of road dust in a city and its highly polluted suburb; quantitative source apportionment and source-specific ecological and health risk assessment. *Chemosphere*. 2021 Jun 1;273:129656.
- 2- Hemati S, Mobini GR, Heidari M, Rahmani F, Babadi AS, Farhadkhani M, Nourmoradi H, Raeisi A, Ahmadi A, Khodabakhshi A, Sadeghi M. Simultaneous monitoring of SARS-CoV-2, bacteria, and fungi in indoor air of hospital: a study on Hajar Hospital in Shahrekord, Iran. *Environmental Science and Pollution Research*. 2021 Apr 10;1-1.
- 3- Heidari M, Alizadeh Z, Dindarloo K. Particulate matter pollution in the indoor and outdoor air of primary schools of Bandar Abbas, Iran. *Journal of Preventive Medicine*. 2020 Aug 10;7(3):1-0.

- 4- Mohammadi-Moghadam F, Heidari M, Farhadkhani M, Sadeghi M, Forouzandeh S, Ahmadi A, Khabaz-Ghasemi E. TSP, PM₁₀, PM_{2.5}, and PM₁ in ambient air of Shahr-e Kord, Iran's rooftop; levels, characterisation and health risk assessment of particles-bound heavy metals. *International Journal of Environmental Analytical Chemistry*. 2020 Aug 10:1-7.
- 5- Heidarinejad Z, Dehghani MH, Heidari M, Javedan G, Ali I, Sillanpää M. Methods for preparation and activation of activated carbon: a review. *Environmental Chemistry Letters*. 2020 Mar;18(2):393-415.
- 6- Hasanzadeh V, Rahmanian O, Heidari M. Cefixime adsorption onto activated carbon prepared by dry thermochemical activation of date fruit residues. *Microchemical journal*. 2020 Jan 1;152:104261.
- 7- Hasanzadeh V, Alipour V, Goodarzi B, Rahmanian O, Dindarloo K, Khosravi R, Heidari M. Experimental and Kinetic Analysis of H₂S Removal in a Polyurethane Foam/Palm Fiber-Based Biofilter with No pH Control. *Iranian Journal of Science and Technology, Transactions of Civil Engineering*. 2019 Dec;43(4):781-9.
- 8- Heidari M, Rahimi A, Amin MM, Bina B, Sami S, Nourmoradi H, Mohammadi-moghadam F, Norouzi S. Mathematical modeling and sensitivity analysis of xylene removal in a scoria-compost biofilter. *Environmental Progress & Sustainable Energy*. 2019 Nov;38(6):e13235.
- 9- Torkashvand J, Farzadkia M, Jonidi Jafari A, Heidari M, Ghalkhanbaz A. Comparison and Prioritization of the Different Disinfection Methods of Infectious Waste. *Journal of Research in Environmental Health*. 2019 Oct 23;5(3):194-204.
- 10-Heidarinejad Z, Rahmanian O, Heidari M. Production of KOH-activated carbon from date press cake: effect of the activating agent on its properties and Pb (II) adsorption potential. *Desalination and Water Treatment*. 2019 Oct 1;165:232-43.
- 11-Sadeghi M, Forouzandeh S, Nourmoradi H, Heidari M, Ahmadi A, Jami MS, Abdizadeh R, Mohammadi-Moghadam F. Biodecolorization of Reactive Black5 and Reactive Red120 azo dyes using bacterial strains isolated from dairy effluents. *International journal of environmental science and technology*. 2019 Jul;16(7):3615-24.

- 12-GBD 2017 Risk Factor Collaborators. Global, regional, and national comparative risk assessment of 84 behavioural, environmental and occupational, and metabolic risks or clusters of risks for 195 countries and territories, 1990–2017: a systematic analysis for the Global Burden of Disease Study 2017. *Lancet* (London, England). 2018 Nov 10;392(10159):1923.
- 13-Lozano R, Fullman N, Abate D, Abay SM, Abbafati C, Abbasi N, Abbastabar H, Abd-Allah F, Abdela J, Abdelalim A, Abdel-Rahman O. Measuring progress from 1990 to 2017 and projecting attainment to 2030 of the health-related Sustainable Development Goals for 195 countries and territories: a systematic analysis for the Global Burden of Disease Study 2017. *The lancet*. 2018 Nov 10;392(10159):2091-138.
- 14-Troeger C, Blacker B, Khalil IA, Rao PC, Cao J, Zimsen SR, Albertson SB, Deshpande A, Farag T, Abebe Z, Adetifa IM. Estimates of the global, regional, and national morbidity, mortality, and aetiologies of lower respiratory infections in 195 countries, 1990–2016: a systematic analysis for the Global Burden of Disease Study 2016. *The Lancet infectious diseases*. 2018 Nov 1;18(11):1191-210.
- 15-Heidarinejad Z, Heidari M, Soleimani H, Najafi Saleh H. Assessment of physical and chemical quality of water resources in Khaf, Taybad, Roshtkhar cities during 2005-2015. *Journal of Preventive Medicine*. 2018 Sep 10;5(1):36-44.
- 16-Heidarinejad Z, Rahmanian O, Fazlzadeh M, Heidari M. Enhancement of methylene blue adsorption onto activated carbon prepared from Date Press Cake by low frequency ultrasound. *Journal of Molecular Liquids*. 2018 Aug 15;264:591-9.
- 17-Jafari K, Heidari M, Rahmanian O. Wastewater treatment for Amoxicillin removal using magnetic adsorbent synthesized by ultrasound process. *Ultrasonics sonochemistry*. 2018 Jul 1;45:248-56.
- 18-Norouzi S, Heidari M, Alipour V, Rahmanian O, Fazlzadeh M, Mohammadi-Moghadam F, Nourmoradi H, Goudarzi B, Dindarloo K. Preparation, characterization and Cr (VI) adsorption evaluation of NaOH-activated carbon

produced from Date Press Cake; an agro-industrial waste. *Bioresource technology*. 2018 Jun 1;258:48-56.

- 19-Khosravi R, Zarei A, Heidari M, Ahmadfazeli A, Vosughi M, Fazlzadeh M. Application of ZnO and TiO₂ nanoparticles coated onto montmorillonite in the presence of H₂O₂ for efficient removal of cephalexin from aqueous solutions. *Korean Journal of Chemical Engineering*. 2018 Apr;35(4):1000-8.
- 20-Heidari M, Bahreyni F, Etesali S, Ghelbash Z, Gholamani A, GhasemiNejad S, Heidari M, Naderi S, Ghaderi H. A survey on the microbial quality of Wheat flour used in bakeries and semi-industrial packaged lavash breads in Bandar Abbas city. *Journal of Preventive Medicine*. 2018;5(1):45-54.
- 21-Khosravi R, Eslami H, Zarei A, Heidari M, Baghani AN, Safavi N, Mokammel A, Fazlzadeh M, Adhami S. Comparative evaluation of nitrate adsorption from aqueous solutions using green and red local montmorillonite adsorbents. *Desalination and Water Treatment*. 2018;116:119-28.
- 22-Heidari M, Heidarinejad Z, Alipour V, Dindarloo K, Rahmanian O, Goodarzi B, Mousapour H. Evaluation of Air Quality based on Air Quality Index in Kerman City, 2015. *Journal of Research in Environmental Health*. 2017 Sep 23;3(3):208-18.
- 23-Hasanzadeh V, Alipour V, Goodarzi B, Rahmanian O, Dindarloo K, Heidari M. Biological removal of hydrogen sulfide by a biofilter with a bed of polyurethane foam and palm fiber. *Journal of Mazandaran University of Medical Sciences*. 2017 Apr 10;27(147):276-90.
- 24-Amin MM, Rahimi A, Bina B, Nourmoradi H, Hassanvand MS, Mohammadi-Moghadam F, Norouzi S, Heidari M. Biodegradation of n-hexane as single pollutant and in a mixture with BTEX in a scoria/compost-based biofilter. *Process Safety and Environmental Protection*. 2017 Apr 1;107:508-17.
- 25-Khosravi R, Eslami H, Almodaresi SA, Heidari M, Fallahzadeh RA, Taghavi M, Khodadadi M, Peirovi R. Use of geographic information system and water quality index to assess groundwater quality for drinking purpose in Birjand City, Iran. *Desalin Water Treat*. 2017 Mar 1;67(1):74-83.

- 26-Khorasani R, Dindarlounaloo K, Heidari M, Behbahani M, Rahmanian O. Application of solvent-assisted dispersive solid phase extraction combined with flame atomic absorption spectroscopy for the determination of trace amounts of Cadmium. *Hormozgan Medical Journal*. 2017;20(6):355-64.
- 27-Khosravi R, Hossini H, Heidari M, Fazlzadeh M, Biglari H, Taghizadeh A, Barikbin B. Electrochemical decolorization of reactive dye from synthetic wastewater by mono-polar aluminum electrodes system. *Int. J. Electrochem. Sci*. 2017;12:4745-55.
- 28-Amin MM, Rahimi A, Bina B, Mohammadi Moghadam F, Nourmoradi H, Heidari M. Effect of a non-ionic surfactant on xylene removal in a scoria-compost-based biofilter. *CLEAN–Soil, Air, Water*. 2016 Dec;44(12):1759-65.
- 29-Nourmoradi H, Avazpour M, Ghasemian N, Heidari M, Moradnejadi K, Khodarahmi F, Javaheri M, Moghadam FM. Surfactant modified montmorillonite as a low cost adsorbent for 4-chlorophenol: Equilibrium, kinetic and thermodynamic study. *Journal of the Taiwan Institute of Chemical Engineers*. 2016 Feb 1;59:244-51.
- 30-Amin MM, Bina B, Rahimi A, Heidari M. Adsorption of gas-phase n-hexane and benzene, toluene, ethyl benzene, and xylene onto compost; kinetics and isothermal studies. *International Journal of Environmental Health Engineering*. 2015 Jan 1;4(1):27.
- 31-Amin MM, Rahimi A, Bina B, Heidari M, Moghadam FM. Performance evaluation of a scoria-compost biofilter treating xylene vapors. *Journal of Environmental Health Science and Engineering*. 2014 Dec;12(1):1-0.
- 32-Miranzadeh MB, Dehghani R, Bigdeli M, Tehrani AM, Heidari M. Coliforms removal by an integrated activated sludge-maturation pond system. *International Journal of Environmental Health Engineering*. 2013 Jan 1;2(1):24.
- 33-Heidari M, Kazemipour M, Bina B, Ebrahimi A, Ansari M, Ghasemian M, Amin MM. A qualitative survey of five antibiotics in a water treatment plant in central plateau of Iran. *Journal of environmental and public health*. 2013 Jan 1;2013.
- 34-Davil MF, Mazloomi S, Heibati B, Miranzadeh MB, Heidari M. Drinking water fluoride concentration and its relationship with decayed, missing, and filled teeth

index in Mianeh, Iran. International Journal of Environmental Health Engineering. 2013 Jan 1;2(1):15.

- 35-Miranzadeh MB, Sabahi Bidgoli M, Zarfeshani AR, Heidari M. Study on Performance of Infectious Waste Sterilizing Set in Kashan Shahid Beheshti Hospital and Determination of its Optimum Operating Condition. Iranian Journal of Health & Environment. 2012 Jan 1;4(4).
- 36-Memarzadeh M, Amin MM, Mostafavi H, Kolivand R, Heidari M. Necessity for replacing the filter media in the water treatment plant based on effective size and uniformity coefficient. International Journal of Environmental Health Engineering. 2012 Jan 1;1(1):50.
- 37-Sharafi K, Davil MF, Heidari M, Almasi A, Taheri H. Comparison of conventional activated sludge system and stabilization pond in removal of chemical and biological parameters. International Journal of Environmental Health Engineering. 2012 Jan 1;1(1):38.
- 38-Fahiminia M, Sadeghi H, Bakhtiari H. Survey of wastewater management status in urban areas in Iran. Journal of Health. 2011 Oct 10;2(3):40-7.
- 39-Shahriari A, Nafez AH, Norouzi S, Heidari M. Investigation of common microbial indicators in swimming pool of gorgan city. Journal of health. 2011 Jul 10;2(2):17-26.
- 40-Miranzadeh MB, Hassani AH, Iranshahi L, Ehsanifar M, Heidari M. Study of microbial quality and heavy metal determination in 15 brands of Iranian bottled drinking water during 2009-2010. Journal of health. 2011 Apr 10;2(1):40-8.
- 41-Miranzadeh MB, Heidari M, Dehghan S, Hasanzadeh M. An overview of nitrate in drinking water and its health effect with emphasis on its carcinogenic risk in human.
- 42-Miranzadeh MB, Mesdaghinia AR, Heidari M, Younesian M, Nadafi K, Mahvi AH. Investigating the chemical quality and chlorination status of drinking water in Kashan's villages.
- 43-Heidari M, Mesdaghinia AR, Miranzadeh MB, Younesian M, Naddafi K, Mahvi AH. Survey on microbial quality of drinking water in rural areas of Kashan and the role of rural water and wastewater company in that improvement.

44-Nadafi K, Hasanvand M, Dehghani FE, Faezi RD, Mostoufi S, Kasaei N, Nabizadeh NR, Heydari M. Performance evaluation of wastewater stabilization ponds in Arak-Iran.

45-Nabizadeh R, Heidari M, Hassanvand MS. Municipal solid waste analysis in Iran. Iran J Health & Environ. 2008;1(1):9-18.

Congress Papers

- 1- Severe Heavy Metal Pollution of Road Dust in a Region with High Diesel-Vehicle Traffic in Hormozgan Province; Health Risk Assessment, 4th international and 23th National Conference on Environmental Health, 2021.
- 2- Evaluation of cardiovascular and respiratory mortality attributed to ground-level ozone in Bandar Abbas using AirQ model, 2nd International and 20th National Conference on Environmental Health and Sustainable Development, 2017.
- 3- Macrokinetics of hydrogen sulfide in a polyurethane foam/palm fiber-based biofilter under acidic conditions, 2nd International and 20th National Conference on Environmental Health and Sustainable Development, 2017.
- 4- Macrokinetic analysis of biofiltration of xylene in the presence and absence of a nonionic surfactant, 1st International and 19th National Conference on Environmental Health and Sustainable Development, 2016.

Reviewer for Peer Review Journals

- Journal of Cleaner Production
- Journal of Hazardous Materials
- Environmental Geochemistry and Health
- Journal of Environmental Health Science and Engineering
- Environmental Progress & Sustainable Energy
- Scientific Reports
- Desalination and Water Treatment
- Arabian Journal of Chemistry
- Chemical Data Collections

- Advances in Public Health
- Journal of Health and Environment (Persian)
- Journal of Preventive Medicine (Persian)

Patent

Production of high specific surface area and micropore activated carbon through dry thermochemical activation (B01J 20/02;C01B 32/00, Patent No. 96835, Iran)