

# Mohsen Sadani

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## Contact Information

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[https://scholar.google.com/citations?user=7\\_w7clMAAAAJ&hl=en](https://scholar.google.com/citations?user=7_w7clMAAAAJ&hl=en)

## Academic Rank

Assistant Professor

## School

Public Health, Department of Environmental Health Engineering.

## Education

1. PhD

Environmental Health Engineering, Isfahan University of Medical Science, Isfahan, Iran, 2016

2. MSc

Environmental Health Engineering, Isfahan University of Medical Science, Isfahan, Iran, 2013

3. BSc

Environmental Health Engineering, Yazd University of Medical Sciences, Yazd, Iran, 2011

## Language Skills

1. English  
Speaking: Upper intermediate,  
Reading: Advanced,  
Writing: intermediate

## Experiences

1. Assistant Professor Department of Environmental Health Engineering, Shahid Beheshti University of Medical Sciences, 2016
2. Lecturer Department of Environmental Health Engineering, Yazd University of Medical Sciences, 2010-2012

## Papers

- A systematic review and meta-analysis of human biomonitoring studies on exposure to environmental pollutants in Iran, *Ecotoxicology and Environmental Safety*, 2021.
- The concentration and probabilistic risk assessment of potentially toxic elements in fillets of silver pomfret (*Pampus argenteus*): A global systematic review and meta-analysis, *Journal of Environmental Sciences*, 2021.
- Investigation of PM<sub>2.5</sub> and PM<sub>10</sub> concentrations in the air of Aradkooh waste management facility of Tehran and neighboring areas in 2020, *Journal of Health in the Field*, 2021.
- Occurrence and fate of amoxicillin and penicillin G antibiotics in hospital wastewater treatment plants: a case study-Gonbad Kavous, Iran, *South African Journal of Chemistry*, 2021.
- Arsenic selective adsorption using a nanomagnetic ion imprinted polymer: Optimization, equilibrium, and regeneration studies, *Journal of Molecular Liquids*, 2020.
- Wastewater reuse from hemodialysis section by combination of coagulation and Ultrafiltration processes: Case study in saveh-iran hospital, *Desalin Water Treat*, 2020.
- Enhanced photocatalytic degradation of ciprofloxacin by black Ti<sub>3</sub>+/N-TiO<sub>2</sub> under visible LED light irradiation: Kinetic, energy consumption, degradation pathway, and toxicity assessment. *Process Safety and Environmental Protection*, 2020.
- A global systematic, review-meta analysis and ecological risk assessment of ciprofloxacin in river water, *International Journal of Environmental Analytical Chemistry*, 2020.
- The concentration of potentially toxic elements (PTEs) in eggs: a global systematic review, meta-analysis and probabilistic health risk assessment, *trends in Food Science & Technology*, 2020.
- Reduction of dinitrotoluene by hydrated electrons generated from UV irradiation of toluene in wastewater: Towards cleaner production, *Journal of Cleaner Production*, 2019.
- Optimization and modeling of photocatalytic degradation of Direct Blue 71 from contaminated water by TiO<sub>2</sub> nanoparticles: Response surface methodology approach (RSM)" has now been *Iranian Journal of Catalysis* 2019.
- Sarkhosh M, Sadani M, Abtahi M, Azarpira H, Alidadi H, Atafar Z, Rezaei S, Mohseni SM, Vaezi N, Fakhri Y, Keramati H. Photo-biological degradation of Bisphenol A, UV/ZnO/Iodide process at the center of biological reactor. *Journal of Photochemistry and Photobiology A: Chemistry*. 2019 Feb
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- Sadani M, Amin MM, Karami MA, Teimouri F. Biodegradability improvement of composting leachate by sulfate radical-advanced oxidation process followed by aerobic and anaerobic treatment-comparison of biodegradability improvement of composting leachate by sulfate radical-advanced oxidation process for aerobic and anaerobic treatment. *International Journal of Environmental Health Engineering*. 2019 Jan 1;8(1):1.
- Azarpira H, Abtahi M, Sadani M, Rezaei S, Atafar Z, Mohseni SM, Sarkhosh M, Shanbedi M, Ghaderpoori M, Fakhri Y, Keramati H. Photo-Catalytic Degradation of Trichlorophenol with

UV/Sulfite/ZnO Process, Simultaneous Usage of Homogeneous Reductive and Heterogeneous Oxidative Agents generator as a New Approach of Advanced Oxidation/Reduction Processes (AORPs). *Journal of Photochemistry and Photobiology A: Chemistry*. 2019 Jan 14.

ISI impact 2.9.

- Mahdavi M, Mahvi AM, Fatehizadeh A, Sadani M, Shahmoradi B, Ebrahimi A, comparison study of granular activated carbon modification by FeCl<sub>3</sub> under the acidic and basic condition for arsenic removal from water. *Desalination and Water Treatment*. 2016 Apr 26;57(20):9455-64.

-Akbari A, Sadani M, Amin MM, Teimouri F, Khajeh M, Mahdavi M, Hadi M. Managing sulfate ions produced by sulfate radical-advanced oxidation process using sulfate-reducing bacteria for the subsequent biological treatment. *Journal of environmental chemical engineering*. 2018 Oct 1;6(5):5929-37.

-Sarafraz M, Sadani M, Teimouri F. Indoor Aerosols: A Serious Threat for Human Health. *J Environ Health Sustain Dev*. 2018 Jan 1;3(2):488-91.

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- Amin MM, Khanahmad H, Teimouri F, Sadani M, Karami MA, Hatamzadeh M. Effect of Monorhamnolipid Contribution on Anaerobic-Natural Attenuation of Explosives in Contaminated Soils. *Journal of Environmental Engineering*. 2017 Apr 3;143(8):04017035

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- Sadani M, Karami MA, Mirzaei N, Teimouri F, Amin MM. Enhance biodegradation of pentaerythritol tetranitrate (PETN) anaerobic/aerobic biological treatment by biosurfactant. *BULGARIAN CHEMICAL COMMUNICATIONS*. 2016 Jan 1;48:50-4

- Sadani M, Karami MM, Teimouri F, Amin MM, Moosavi SM, Dehdashti B, Kinetic parameters and nitrate, nitrite changes in bioremediation of Toxic Pentaerythritol Tetranitrate (PETN) contaminated soil. *Electronic Physician*, 2017.

- Amin MM, Teimouri F, Sadani M, Karami MA. Application of enhanced nZnO photocatalytic process with ultrasonic wave in formaldehyde degradation from aqueous solution. *Desalination and Water Treatment*. 2016 Apr 26;57(20):9455-64.

- Alavijeh HN, Sadeghi M, Rajaeieh M, Moheb A, Sadani M. Integrated Ultrafiltration Membranes and Chemical Coagulation for Treatment of Baker's Yeast Wastewater. *Journal of Membrane Science & Technology*. 2017.

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Karami MA, Amin MM, Bina B, Mirzaei N, Sadani M, Teimouri F. Effect of rhamnolipid biosurfactant on the degradation of pentaerythritoltetranitrate (PETN). *BULGARIAN CHEMICAL COMMUNICATIONS*. 2016 Jan 1;48:3-9.

- Amin MM, Jaberian B, Bina B, Sadani M, Hadian R, Bonyadinejad G, Moazzam MM. Advanced Oxidation of the Endosulfan and Profenofos in Aqueous Solution Using UV/H<sub>2</sub>O<sub>2</sub> Process. *EnvironmentAsia*. 2014 Jan 1;7(1):57-64.

- Karami MA, Amin MM, Nourmoradi H, Sadani M, Teimouri F, Bina B. Degradation of reactive red 198 from aqueous solutions by advanced oxidation process: O<sub>3</sub>, O<sub>3</sub>/H<sub>2</sub>O<sub>2</sub>, and persulfate. *International Journal of Environmental Health Engineering*. 2016 Jan 1;5(1):26.
- Karami MA, Sadani M, Farzadkia M, Mirzaei N, Asadi A. System analysis of industrial waste management: A case study of industrial plants located between Tehran and Karaj. *International Journal of Environmental Health Engineering*. 2015 Jan 1;4(1):13.
- Mohammad Taghi Ghaneian, Mohammad Hassan Ahrampoush, Sadegh Kazemi, Mohsen Sadani, Effectiveness of separate ozonation process separately and in combination with clay to remove sodium dodecyl sulfate from aqueous solutions. *International Journal of Advanced Biotechnology and Research (IJBR)*.2016
- Ebrahimi A, Faraji M, Sadani M, Amin MM, Hajian M, Pourzamani HR. Determination of BTEX concentration in the groundwater of east region of Isfahan using passive sampling method. *International Journal of Environmental Health Engineering*. 2013 Jan 1;2(1):29. Pubmed.
  
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- Sadani M, Movahedian H, Faraji M, Jaberian B, Hajian M, Mehrizi EA. Effects of physical and chemical characteristics of water on toxicity of crude oil water-soluble fraction on *Daphnia Magna*. *WASJ*. 2011;14:1744-7.

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## **Research Interests**

Industrial, health care, Hazardous waste management

Waste recovery

Industrial waste water treatment