



Dr Ali Nikoonahad

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Educational and Research Resume (2025)

Current Position

Assistant Professor of Environmental Health Engineering

*Department of Environmental Health, School of Health
Ilam University of Medical sciences.*

Education

Grade		University	Year
B.Sc.	Environmental Health Engineering	Mazandaran UNIV of Med Sciences	1997
M.Sc.	Environmental Engineering	IAU, Ahvaz Science and Research Branch	2007
PhD	Environmental Health	Yazd Univ Med Sciences	2018

Teachings Experiences

- **Teaching** Radiation Health and Protection
- **Teaching** Industrial Wastewater Treatment
- **Teaching** Water Treatment
- **Teaching** Municipal Wastewater Treatment
- **Teaching** Environmental Health I & II
- **Teaching** Housing and Health
- **Teaching** Energy and Environment
- **Teaching** Water Safety
- **Teaching** Environmental Impact Assessment

Professional Experiences

- *Faculty Member Of Ilam University of Medical Sciences*
- *Deputy of Health, Dareh Shahr Health Network, 2002 – 2007*
- *Director, Abdanan Health Network, October 2018 – February 2022*
- *Deputy of Health, Ilam University of Medical Sciences, May 2022 – Present.*

Research Articles

1. **LED visible** light assisted photo-oxidation of acetaminophen using one-step synthesis of Cu,Fe@g-C₃N₄ nanosheet - Activated persulfate system in aqueous solutions, Alvandi, M., Nourmoradi, H., **Nikoonahad, A.**, Abbas Mirzaee, S., Aghayani, E. **2023.**
- 2 **Evaluation of** a novel integrated membrane biological aerated filter for water reclamation: A practical experience . **Nikoonahad, A.**, Gholizadeh, A., Ghaneian, M.T., Abdollahnejad, A., Moradi, B. **2022**
3. **Photocatalytic** degradation of microcystin-LR using BiVO₄ photocatalysts under visible light irradiation: modelling by response surface methodology (RSM) Ebrahimi, A., Ebrahim, K., Abdollahnejad, A., Mohammadi, A., **Nikoonahad, A.** **2022.**
4. **The performance of** TiO₂ /nay-zeolite nanocomposite in photocatalytic degradation of microcystin-Lr from aqueous solutions: Optimization by response surface methodology (RSM) Ebrahimi, A., Jafari, N., Ebrahimpour, K., , Fanaei, F., Abdollahnejad, **A. Nikoonahad, A.** **2020.**
5. **Optimizing** the removal of humic acid with polyaluminum chloride and polyaluminum ferric chloride as green coagulants using response surface methodology. Faraji, M., Ebrahimi, A., Nourmoradi, H., , Ghanbari, R., Mohammadi, A. **Nikoonahad, A.** **2019.**
6. **Improved** power density and Cr/Pb removal using ozone in a microbial desalination cell. Gholizadeh, A., Salmani, M.H., Ebrahimi, A., **Nikoonahad, A.**, Pasalari, H. **2019.**
7. **Investigation of** modified microbial desalination cell performance in sweetening of saltwater. Gholizadeh, A., Neshat, A., Pakravan, F., , Taghavi, M., **Nikoonahad, A.** **2018.**
8. **Trends** of BTEX in the central urban area of Iran: A preliminary study of photochemical ozone pollution and health risk assessment. **Nikoonahad, A** ,Y., Hajizadeh, Yaghoub; M.T.G., Mokhtari, Mehdi Taghi Ghaneian; M., Faraji, Maryam; A., Mohammadi, Amir. **2018.**
9. **Synthesis of polystyrene** coated by sand (PCS) as a novel media in modified biological aerated filters (BAF) for advanced municipal

- wastewater treatment: A comparative assessment. *Nikoonahad, A., Mahvi, A.H., Ghaneian, M.T., Ebrahimi, A.A., Lotfi, M.H. 2018.*
- 10. An overview** report on the application of heteropoly acids on supporting materials in the photocatalytic degradation of organic pollutants from aqueous solutions. *Nikoonahad, A., Djahed, B., Norzaee, S., Zarrabi, M., Taghavi, M. 2018.*
- 11. Application** of novel Modified Biological Aerated Filter (MBAF) as a promising post-treatment for water reuse: Modification in configuration and backwashing process. *Nikoonahad, A., Ghaneian, M.T., Mahvi, A.H., Lotfi, M.H., Salamehnejad, S. 2017.*
- 12. Assessment** of hospitalization and mortality from exposure to PM10 using AirQ modeling in Ilam, Iran. *Nikoonahad, A., Naserifar, R., Alipour, V., Nemati, S., Mohammadi, A. 2017.*
- 13. Upgrading** secondary wastewater plant effluent by modified coagulation and flocculation, for water reuse in irrigation. M.T., Ghaneian, Mohammad Taghi; M.H., Ehrampoosh, Mohammad Hassan; E., Ehsanzadeh, Eghbal; A. *Nikoonahad, 2017.*
- 14. Human** health impact assessment of exposure to particulate matter: an Air software modeling. Miri, M., Ebrahimi Aval, H., Ehrampoush, M.H., Derakhshan, Z., Abdollahnejad, A. *Nikoonahad, A. 2017.*
- 15. A time series** analysis of environmental and metrological factors impact on cutaneous leishmaniasis incidence in an endemic area of Dehloran, Iran. *Nikoonahad, A., Khorshidi, A., Ghaffari, H.R., Nourmoradi, H., Mohammadi, A. 2017.*
- 16. A comparative** study on capability of different tree species in accumulating heavy metals from soil and ambient air. Alahabadi, A., Ehrampoush, M.H., Miri, M., Sharafi, K., Hosseini-Bandegharai, A. *Nikoonahad, A. 2017.*
- 17. Cutaneous** leishmaniasis prevalence and morbidity based on environmental factors in Ilam, Iran: Spatial analysis and land use regression models. Mokhtari, M., Miri, M., *Nikoonahad, A., Ghaffari, H.R., Kazembeigi, F. 2016.*
- 18. Evaluation** the Correlation between Turbidity and Total Suspended Solids with other Chemical Parameters in Yazd Wastewater Treatment Effluent Plant. *Nikoonahad, A., Ebrahimi, A.A., Nikoonahad, E., Ghelmani, S.V., Mohammadi, A. 2016.*
- 19. Performance** Evaluation of Combined Process of Powdered Activated Carbon-Activated Sludge (PACT) in Textile Dye Removal. Gholizadeh, A., Gholami, M., Ebrahimi, A.A., Miri, M., *Nikoonahad, A. 2016.*

Research projects

- *Investigated the impact* of Karkheh Reservoir Dam on incoming water quality using water quality indices NSFQI^m, DSWQI, NSFQI^a, and OWQI, and selected the most appropriate assessment method using the Jel Janovik technique (Khuzestan Water & Power Authority).
- *Assessed the effect* of educational interventions on replacing chimney-based heating systems with chimney-less heating systems in rural areas of Dareh Shahr.
- *Applied coagulation–flocculation* processes to improve the effluent quality from the SBR wastewater treatment system, Yazd Wastewater Treatment Plant. **2015**
- *Investigated the* causes of cutaneous leishmaniasis in Ilam Province during 2010–2014 and mapped its spatial distribution using GIS. **2015**
- *Estimated the Air Quality* Index (AQI) and health risks associated with PM₁₀, PM_{2.5}, and SO₂ in Yazd city. **2015**
- *Measured concentrations* of heavy metals (Zn, Cd, Ni, Pb, and Cu) in precipitation samples in Urmia city, autumn **2017**.
- *Modeled BTEX compound* concentrations using Land Use Regression (LUR) in Urmia city during summer **2017**.
- *Evaluated the concentrations* of BTEX compounds in ambient air of Yazd city in spring 2016. **2017-2018**

Research Intrest

- Assessment and Management of Environmental Pollution (Water, Air, Soil).
- Occupational Health and Safety
- Climate Change and Its Health Implications
- Treatment and Recycling of Urban and Industrial Wastewater and Solid Waste
- Nanotechnology and Emerging Technologies for Environmental Pollution Control
- Environmental and Health Risk Assessment
- Environmental Health and Epidemiology of Environment-Related Diseases
- Development of Sustainable Policies and Strategies in Environmental Health

Scientific profiles

Scopus Profile :

<https://www.scopus.com/authid/detail.uri?authorId=57195308964>

Google scholar :

<https://scholar.google.com/citations?user=qHKTriUAAAJ&hl=en&oi=ao>

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Rpis : <https://rpis.research.ac.ir/Researcher.php?id=3838214>

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Honor and Inventions

- **Outstanding** Student, Ministry of Health, 2017
- **Top Researcher** in Applied Studies, Ilam Province, with a Commendation from the Vice President, 2007
- **Top Research Student**, School of Public Health, Yazd University, 2015
- **Second Place**, Executive Activities Section, 9th Iranian Environmental Health Scientific and Executive Festival
- **Inventor** of Polystyrene Media with Sand Coating (PCBS)
- **Inventor** of Mixed Membrane Aerobic Biological Air Filter (IMBAF) for Advanced Wastewater Treatment and Water Reuse