



MOHAMMAD REZA SAMAEI

Professor of Environmental Health Engineering

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School of Health, Shiraz University of Medical Sciences
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Research Areas

Water & Wastewater Treatment • Environmental Pollution & Remediation • Emerging Contaminants • Environmental Exposure & Health Risk Assessment • Environmental Modeling, GIS & Machine Learning • Environmental Microbiology & Bioremediation

Research Profiles

Scopus: 1,848 citations | h-index 25

Google Scholar: 2,561 citations | h-index 27

Citation metrics updated: September 2026

Biography

Professor Mohammad Reza Samaei is a Professor of Environmental Health Engineering at Shiraz University of Medical Sciences, Iran. His research focuses on advanced water and wastewater treatment, environmental pollution and remediation, emerging contaminants, and environmental exposure and health-risk assessment. His work integrates advanced oxidation, photocatalytic and electrochemical processes, environmental microbiology, and bioremediation with environmental modeling, GIS, and machine learning. His recent research emphasizes sustainable treatment technologies, environmental monitoring, quantitative risk assessment, and data-driven approaches to environmental and health challenges.

Education

2013 — Ph.D. in Environmental Health Engineering

Tarbiat Modares University, Iran

2004 — M.Sc. in Civil and Environmental Engineering

Iran University of Science and Technology, Iran

2002 — B.Sc. in Environmental Health Engineering

Iran University of Medical Sciences, Iran

1999 — Associate Diploma in Environmental Health

Shiraz University of Medical Sciences, Iran

Professional Experience

1. Academic & Professional Experience

Aug 2026–Present

Head, Mohammad Rasoul Allah (PBUH) Research Tower

Shiraz University of Medical Sciences, Shiraz, Iran

Aug 2026–Present

Secretary, Supreme Council of Research Centers

Shiraz University of Medical Sciences, Shiraz, Iran

Nov 2024–Aug 2026

Vice President for Cultural and Student Affairs

Shiraz University of Medical Sciences, Shiraz, Iran

2020–2024

Head, Department of Environmental Health Engineering, School of Health

Shiraz University of Medical Sciences, Shiraz, Iran

2012–Present

Professor / Faculty Member, Department of Environmental Health Engineering

Shiraz University of Medical Sciences, Shiraz, Iran

2012–Present

Faculty Member, Health Sciences Research Center

Shiraz University of Medical Sciences, Shiraz, Iran

2014–2019

Deputy / Advisor, Office of Cultural and Student Affairs

Shiraz University of Medical Sciences, Shiraz, Iran

2014

Director of Cultural Affairs

Shiraz University of Medical Sciences, Shiraz, Iran

2013–2015

Deputy for Research, Department of Environmental Health Engineering

Shiraz University of Medical Sciences, Shiraz, Iran

2005–2008

Faculty Member

Yazd University of Medical Sciences, Yazd, Iran

2012–2014

Environmental Advisor

Shiraz Municipality and Fars Department of Environment, Shiraz, Iran

2. Research, Teaching & Academic Service

Teaching and Supervision

- Teaching at undergraduate, M.Sc., Ph.D., and residency levels in Environmental Health and Environmental Health Engineering at Shiraz University of Medical Sciences, Shahid Beheshti University of Medical Sciences, and Yazd University of Medical Sciences.
- Major teaching areas include **water and wastewater treatment, water and wastewater microbiology and chemistry, water quality management, hydrology and hydrogeology, water resources, solid waste management, industrial waste management, environmental chemistry and microbiology, environmental modeling, environmental and occupational health, and environmental engineering fundamentals.**
- Teaching specialized courses in **environmental and occupational health modeling** at undergraduate, M.Sc., and Ph.D. levels.
- Supervision and academic advising of M.Sc. and Ph.D. students at universities in Iran.
- Delivery of scientific lectures and professional training courses for specialists in environmental health, environmental sciences, and education.
- Delivery of three four-hour university courses on **Citizenship Rights.**
- Member of examination and interview panels for graduate admission in Environmental Health.

Research and Innovation

- Conducted numerous **fundamental, applied, and technology-development research projects** in environmental health and environmental engineering, including projects in collaboration with health and industrial sectors.
- Research expertise encompasses **advanced water and wastewater treatment, environmental pollution and remediation, solid waste management, emerging contaminants, environmental exposure and health-risk assessment, environmental modeling, and data-driven environmental assessment.**

- Published **more than 100 peer-reviewed scientific articles** in national and international journals and presented research findings at national and international scientific conferences.
- Authored and translated several **scientific and reference books** in environmental health and environmental sciences.
- Registered **three patents** in environmental fields.
- Developed applied research and technology-oriented projects addressing environmental and health challenges in industrial and public-health settings.

Academic and Professional Service

- Member of the Board of the **Iranian Association of Environmental Health** for two terms.
- Secretary of the **18th Iranian Environmental Health Conference** and member of scientific, organizing, and review committees of national and international environmental health conferences.
- Member of the **Supreme Council of Iranian Environmental Health Conferences** since 2015.
- Member of university councils and committees in the areas of **education, research, accreditation, HSE, productivity, operational planning, energy management, social responsibility, population health, and student affairs**.
- Member of the **National Standards Organization of Iran** committee for developing specialized waste-management terminology standards, 2024.
- Official representative of the Iranian Association of Environmental Health for supervision of the **20th Technical Competency Examination for Health Auditors**, 2018.
- Member of university committees for **academic quality assurance, international accreditation, operational planning, HSR and applied research, academic journals, student organizations, and professional examinations**.
- Member of the editorial boards of:
 - *Avicenna Journal of Environmental Health Engineering*
 - *Journal of Environmental Health and Sustainable Development*
 - *Sadra Medical Sciences Journal*
 - *Vitrin Quarterly*, Shiraz University of Medical Sciences (2015–2020)
- Member of scientific and peer-review committees of national and international journals and conferences in environmental health and environmental sciences.

3. Honors & Awards

- **Top Researcher, Shiraz University of Medical Sciences, 2023.**
- **Ranked 2nd** in the national Ph.D. entrance examination in Environmental Health Engineering, Ministry of Science, Research and Technology, 2008.
- **Commended by the Jury**, Book Category (Water and Wastewater Technology), 6th Iranian Environmental Health Scientific Festival, 2014.

1. Water & Wastewater Engineering and Treatment

1. Samaei MR, Afshar A. Analysis of water quality in rivers with response matrix approach. *Journal of Water & Wastewater*. 2004;51:28–34.
2. Samaei MR, Afshar A, Gharavi M. Modeling of phytoplankton and zooplankton in reservoirs with system dynamics approach. *Journal of Water & Wastewater*. 2005;52:47–55.
3. Samaei MR, Ebrahimi A, Ehrampoosh MH, Talebi P, Khalili MH, Morovati RA. Study of the physical and chemical quality of potable water in Yazd. *Tolooe Behdasht*. 2007;20:50–57.
4. Ebrahimi A, Ehrampoosh MH, Samaei MR, Ghelman V, Salehi A, Talebi P, Shahsavani E. Removal efficiency of linear alkylbenzene sulfonate (LAS) in Yazd stabilization pond. *Journal of Water & Wastewater*. 2010;76:38–43.
5. Samaei MR, Mortazavi SB, Ebrahimi A, Shahsavani E. Using system dynamics approach to simulating eutrophication in artificial lakes. *Health System Research*. 2010;6(2):315–325.
6. Ehrampoosh MH, Shahsavani E, Samaei MR, Ebrahimi A, Ghelman V, Salehi A, Talebi P, Shahsavani E. Phosphorus modeling in Yazd facultative pond. *Tolooe Behdasht*. 2011;10:11–24.
7. Ebrahimi A, Amin MM, Bina B, Mokhtari M, Alaghebandan AR, Samaei MR, Hashemi H. Prediction of the energy content of municipal solid waste. *International Journal of Environmental Health Engineering*. 2012;1(6):1–6.
8. Nurisepehr M, Jorfi S, Rezaei Kalantary R, Akbari H, Darvishi Cheshmeh Soltani R, Samaei M. Sequencing treatment of landfill leachate using ammonia stripping, Fenton oxidation and biological treatment. *Waste Management & Research*. 2012;30(9):883–887. DOI: 10.1177/0734242X12453685.
9. Dehghani M, Nasserli S, Ahmadi M, Samaei MR, Anushiravani A. Removal of penicillin G from aqueous phase by Fe^{3+} - TiO_2 /UV-A process. *Journal of Environmental Health Science & Engineering*. 2014;12:56. DOI: 10.1186/2052-336X-12-56.
10. Dehghani M, Shahsavani E, Farzadkia M, Samaei MR. Optimizing photo-Fenton like process for removal of diesel fuel from aqueous phase. *Journal of Environmental Health Science & Engineering*. 2014;12:87. DOI: 10.1186/2052-336X-12-87.
11. Hashemi H, Safari M, Ebrahimi A, Samaei MR, Khodabakhshi A. Feasibility of large amounts biogas production from garbage bioliquid. *International Journal of Health System and Disaster Management*. 2015;3(3):147–150.

12. Azhdarpoor A, Nikmanesh R, Samaei MR. Removal of arsenic from aqueous solutions using welding iron waste. *Journal of Health Sciences and Surveillance System*. 2015;3(2):56–63.
13. Samaei MR, Maleknia H, Azhdarpoor A. Effects of pH on the kinetics of methyl tertiary butyl ether degradation by oxidation process (H_2O_2 /nano zero-valent iron/ultrasonic). *Jundishapur Journal of Health Sciences*. 2015;7(3):40–45.
14. Azhdarpoor A, Nikmanesh R, Samaei MR. Removal of arsenic from aqueous solutions using waste iron columns inoculated with iron bacteria. *Environmental Technology*. 2015;36(20):2525–2531. DOI: 10.1080/09593330.2015.1025104.
15. Samaei MR, Ehrampoush MH, Maleknia H, Elhamiyan Z, Shahsavani E, Ebrahimi A. Removal of chromium and cadmium from wastewater in waste stabilization ponds, Yazd-Iran. *Journal of Health Sciences and Surveillance System*. 2016;4(2):83–88.
16. Samaei MR, Maleknia H, Azhdarpoor A. A comparative study of removal of methyl tertiary-butyl ether (MTBE) from aquatic environments through advanced oxidation methods of $H_2O_2/nZVI$, $H_2O_2/nZVI$ /ultrasound, and $H_2O_2/nZVI/UV$. *Desalination and Water Treatment*. 2016;57:21417–21427.
17. Samaei MR, Elhamiyan Z, Maleknia H, Isazadeh S. A system dynamics model to analyze nitrate and ammonia in reservoirs and lakes. *Jundishapur Journal of Health Sciences*. 2016;8(3).
18. Eslami H, Samaei MR, Shahsavani E, Ebrahimi AA. Biodegradation and fate of linear alkylbenzene sulfonate in integrated fixed-film activated sludge using synthetic media. *Desalination and Water Treatment*. 2017;92:128–133.
19. Samaei MR, Nozari M, Ansari Shiri M, Mokhtari M, Ghasemi A. Treatment of linear alkyl benzene sulfonate in an intermittent cycle extended aeration system. *Journal of Health Sciences and Surveillance System*. 2017;5(2):44–50.
20. Azhdarpoor A, Abbasi L, Samaei MR. Investigation of a new double-stage aerobic-anoxic continuous-flow cyclic baffled bioreactor efficiency for wastewater nutrient removal. *Journal of Environmental Management*. 2018;211:1–8.
21. Ashoori R, Samaei MR, Azhdarpoor A, Yousefinejad S. Simultaneous removal fluoride and nitrate from water in a batch reactor using Al and Fe anodes and Cu, steel and graphite cathodes. *Journal of Health Sciences & Surveillance System*. 2018;6(2):72–79.
22. Abbasi L, Azhdarpoor A, Samaei M. The efficiency of a novel cycling flow baffled reactor performance for the removal of nitrogen and organic matter from wastewater. *Jundishapur Journal of Health Sciences*. 2018;10(2):e58927.

23. Shahsavani E, Ebrahimi AA, Ehrampoush MH, Maleknia H, Eslami H, Samaei MR. Developing a system dynamics model for prediction of phosphorus in facultative stabilization ponds. *AMB Express*. 2019;9:157. DOI: 10.1186/s13568-019-0882-6.
24. Radfard M, Seif M, Ghazizadeh Hashemi AH, Heidarinejad Z, Samaei MR. Protocol for the estimation of drinking water quality index (DWQI) in water resources: artificial neural network (ANFIS) and Arc-GIS. *MethodsX*. 2019;6:1021–1029. DOI: 10.1016/j.mex.2019.04.027.
25. Abbasi F, Azhdarpoor A, Samaei MR. Kinetic modeling of methyl tert-butyl ether (MTBE) removal by bacteria isolated from contaminated soils. *International Journal of Environmental Analytical Chemistry*. 2022;102(17):6014–6025. DOI: 10.1080/03067319.2020.1807526.
26. Samaei MR, Mortazavi SB, Bakhshi B, Mehrazmay H, Ansarizadeh M. Investigating the effects of combined bio-enhancement and bio-stimulation on cleaning of hexadecane-contaminated soils. *Journal of Environmental Chemical Engineering*. 2022;10(1):106914. DOI: 10.1016/j.jece.2021.106914.
27. Shahsavani E, Ehrampoush MH, Samaei MR, Abouee Mehrizi E, Madadzadeh F, Abbasi A, Shiranian M, Mohammadpour A, Ebrahimi AA. Real and synthetic greywater treatment by a combined process of ozonation, granular activated carbon, and ultrafiltration. *Health Scope*. 2022;11(2):e123644. DOI: 10.5812/jhealthscope-123644.
28. Sadeghi H, Mohammadpour A, Samaei MR, et al. Application of sono-electrocoagulation in arsenic removal from aqueous solutions and related human health risk assessment. *Environmental Research*. 2022;212:113147. DOI: 10.1016/j.envres.2022.113147.
29. Ashoori A, Samaei MR, Yousefinejad S, Azhdarpoor A, Emadi Z, Mohammadpour A, Rasti Larie A, Mousavi Khaneghah A. Simultaneous removal of fluoride and nitrate from synthetic aqueous solution and groundwater by electrochemical process using non-coated and coated anode electrodes: a human health risk study. *Environmental Research*. 2022;214(3):113938. DOI: 10.1016/j.envres.2022.113938.
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31. Shahsavani E, Ehrampoush MH, Samaei MR, Abouee Mehrizi E, Madadzadeh F, Abbasi A, Shiranian M, Mohammadpour A,

- Ebrahimi AA. Real performance evaluation of combined process of ozonation, biological activated carbon reinforced by bacterial consortium, and ultrafiltration in greywater treatment. *Environmental Health Engineering and Management*. 2022;9(4):381–390. DOI: 10.34172/EHEM.2022.41.
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 33. Mohammadpour A, Motamed-Jahromi M, Soleimani H, Dehbani R, Eslamidoost ZE, Samaei MR, Derakhshan Z, Renella G, Mahvi AH. Trace elements human health risk assessment by Monte Carlo probabilistic method in drinking water of Shiraz, Iran. *International Journal of Environmental Science and Technology*. 2023;20(4):3775–3788.
 34. Mohammadpour A, Samaei MR, Baghapour MA, Sartaj M, Isazadeh S, Azhdarpoor A, Alipour H, Mousavi Khaneghah A. Modeling, quality assessment, and Sobol sensitivity of water resources and distribution system in Shiraz: a probabilistic human health risk assessment. *Chemosphere*. 2023;341:139987. DOI: 10.1016/j.chemosphere.2023.139987.
 35. Karami N, Mohammadpour A, Samaei MR, Amani AM, Dehghani M, Varma RS, Sahu JN. Green synthesis of sustainable magnetic nanoparticles Fe₃O₄ and Fe₃O₄-chitosan derived from *Prosopis farcta* biomass extract and their performance in the sorption of lead(II). *International Journal of Biological Macromolecules*. 2024;254(1):127663. DOI: 10.1016/j.ijbiomac.2023.127663.
 36. Moeini Z, Hoseini M, Dehghani M, Samaei MR, Jafari S, Taghavi M, Azhdarpoor A. Synthesis of heterostructure TiO₂ by simultaneous doping of double silver and phosphate to degradation of methylene blue under visible light. *Applied Water Science*. 2024.
 37. Mohammadpour A, Samaei MR, Baghapour MA, Alipour H, Isazadeh S, Azhdarpoor A, Mousavi Khaneghah A. Nitrate concentrations and health risks in cow milk from Iran: insights from deterministic, probabilistic, and AI modeling. *Environmental Pollution*. 2024;341:122901. DOI: 10.1016/j.envpol.2024.122901.
 38. Mohammadpour A, Samaei MR, Baghapour MA, Sartaj M, Isazadeh S, Azhdarpoor A, Alipour H, Mousavi Khaneghah A. Mechanisms of nitrate removal and antimicrobial action of Fe–Cu@GA-AC nanocomposite – a comparison of RSM and SVM-Monte Carlo optimization. *Journal of Cleaner Production*. 2024;434:140101. DOI: 10.1016/j.jclepro.2023.140101.

39. Mohammadpour A, Keshtkar M, Samaei MR, Isazadeh S, Mousavi Khaneghah A. Assessing water quality index and health risk using deterministic and probabilistic approaches in Darab County, Iran; a machine learning for fluoride prediction. *Chemosphere*. 2024;352:141284. DOI: 10.1016/j.chemosphere.2024.141284.
40. Keshavarzi F, Samaei MR, Hashemi H, Azhdarpoor A, Mohammadpour A. Application of montmorillonite/octadecylamine nanoparticles in the removal of textile dye from aqueous solutions: modeling, kinetic, and equilibrium studies. *Heliyon*. 2024;10(4):e25919. DOI: 10.1016/j.heliyon.2024.e25919.
41. Rajabi S, Hashemi H, Samaei MR, Nasiri A, Azhdarpoor A, Yousefinejad S. Enhanced sonophoto-catalytic and adsorption capabilities of Fe₃O₄@MC/MWCNT-CuO/Ag for petrochemical organic pollutants degradation from industrial process streams. *Arabian Journal of Chemistry*. 2024;17(11):105994. DOI: 10.1016/j.arabjc.2024.105994.
42. Ameli F, Hashemi H, Samaei MR, Asgari E, Mohammadian Fazli M. Enhanced reducing leachate pollution index through electrocoagulation using response surface methodology. *Heliyon*. 2024;10(18):e38134. DOI: 10.1016/j.heliyon.2024.e38134.
43. Amiri Gharaghani MA, Dehdarirad A, Mahdizadeh H, Hashemi H, Nasiri A, Samaei MR, Mohammadpour A. Photocatalytic degradation of Acid Red 18 by synthesized AgCoFe₂O₄@Ch/AC: recyclable, environmentally friendly, chemically stable, and cost-effective magnetic nano hybrid catalyst. *International Journal of Biological Macromolecules*. 2024;269(1):131897. DOI: 10.1016/j.ijbiomac.2024.131897.
44. Mohammadpour A, Kazemi A, Baghapour MA, Samaei MR, Kannan K, Mousavi Khaneghah A. Bioengineered FeZn/GA@Cu nanocomposite utilizing spent coffee ground extract and gum arabic: enhanced nitrate removal via RSM and machine learning optimization. *International Journal of Biological Macromolecules*. 2024;277(2):134060. DOI: 10.1016/j.ijbiomac.2024.134060.
45. Rajabi S, Derakhshan Z, Maleky S, Nasiri A, Ahmadi B, Feilizadeh M, Mohammadpour A, Samaei MR, Hashemi M. Innovative grey water treatment using eco-friendly bio-photocatalyst AgCuFe₂O₄@chitosan in the presence of synergistic effects of persulfate activation: optimization and mechanisms. *International Journal of Biological Macromolecules*. 2025;286:138375. DOI: 10.1016/j.ijbiomac.2024.138375.

46. Rajabi S, Hashemi H, Samaei MR, Nasiri A, Azhdarpoor A, Yousefinejad S, Sartaj M, Isazadeh S. Magnetic Ag⁰ and CuO doped bio-sonocatalyst multi-walled carbon nanotube for synergized degradation of monoethylene glycol from gas refinery effluents. *Journal of Water Process Engineering*. 2025;77:108330. DOI: 10.1016/j.jwpe.2025.108330.
47. Amiri Gharaghani MA, Azarshab K, Ameli F, Ansarizadeh M, Samaei MR, Nasiri A, Mahdizadeh H, Hashemi H, Mohammadpour A. Gum Arabic-enhanced magnetic biochar nanophotocatalyst for efficient metronidazole degradation in wastewater. *Results in Engineering*. 2025;27:106479. DOI: 10.1016/j.rineng.2025.106479.
48. Mohammadpour A, Gharehchahi E, Golaki M, Amiri Gharaghani MA, Ahmadian F, Abolfathi S, Samaei MR, Uddin MG, Olbert AI, Mousavi Khaneghah A. Advanced water quality assessment using machine learning: source identification and probabilistic health risk analysis. *Results in Engineering*. 2025;27:105421. DOI: 10.1016/j.rineng.2025.105421.
49. Amiri Gharaghani MA, Hashemi H, Samaei MR, Ameli F, Bontempi E, Mousavi Khaneghah A, Mohammadpour A. Assessing pollution levels and implementing eco-friendly hybrid sedimentation and sono-electrocoagulation for car wash wastewater treatment. *Physics and Chemistry of the Earth, Parts A/B/C*. 2025;140:103999. DOI: 10.1016/j.pce.2025.103999.
50. JokarVakilabadi F, Samaei MR, Derakhshan Z, Azhdarpoor A, Feilizadeh M. Investigation of the removal of furfural from aqueous media using an ultrasonically amplified Fe-Cu@GA-AC photocatalyst. *Results in Engineering*. 2025;28:107899. DOI: 10.1016/j.rineng.2025.107899.
51. Mohammadpour A, Gharehchahi E, Baghapour MA, Samaei MR, Mousavi Khaneghah A. Deterministic, probabilistic, and machine learning approaches for water quality index prediction, source identification via non-negative matrix factorization, and health risk evaluation. *Applied Water Science*. 2026;16(1). DOI: 10.1007/s13201-025-02689-7.
52. Zarei MR, Hashemi H, Azhdarpoor A, Samaei MR, Dehghani M, Baghapour MA, Khodabakhshloo N. Optimization of aerobic moving bed biofilm reactor performance for sulfate removal using response surface methodology: the experience of university-industry collaboration. *Water Resources and Industry*. 2026;36:100385. DOI: 10.1016/j.wri.2026.100385.
53. Golaki M, Azhdarpoor A, Samaei MR, Hashemi H, Yousefinejad S, Dehghani M. Modeling and AI optimization of visible-light-driven Acid Orange 25 degradation using an

Ag/N/TiO₂/persulfate system. *Scientific Reports*. 2026. DOI: 10.1038/s41598-026-65770-4. ([Nature](#))

2. Environmental Pollution, Waste Management and Bioremediation

1. Abotorabi M, Ebrahimi A, Ehrampoosh MH, Samaei MR, Shahsavani E, Afra Y. Survey of knowledge and practice of Yazd people regarding municipal solid waste management in 2008. *Tolooe Behdasht*. 2011;9:80–88.
2. Samaei MR, Mortazavi SB, Bakhshi B, Jonidi Jafari A. Isolation, genetic identification, and degradation characteristics of n-hexadecane degrading bacteria from tropical areas in Iran. *Fresenius Environmental Bulletin*. 2013;22(4):1304–1312.
3. Dehghani M, Taatizadeh SB, Samaei MR. Biodegradation of n-hexadecane in *Acinetobacter radioresistens* liquid culture. *Health Scope*. 2013;2(3):162–167.
4. Ghanbarian M, Majlessi M, Samaei M. Analysis of solid waste products disposed by dental clinics in Shiraz. *Journal of Research in Dental Sciences*. 2014;10(14):246–252.
5. Samaei MR, Mortazavi SB, Bakhshi B, Jonidi Jafari A, Boostanshenas M. Isolation and molecular identification of n-hexadecane degrading bacteria from compost. *Journal of Microbial World*. 2014;6(4):320–327.
6. Samaei MR, Mortazavi SB, Bakhshi B, Jonidi Jafari A. Isolation and molecular detection of a hexadecane degrading bacterium from compost and evaluation of its performance in removal of hexadecane. *Tolooe Behdasht*. 2014;12(4):267–278.
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8. Nozari M, Samaei MR, Dehghani M. Investigation of the effect of co-metabolism on removal of dodecane by microbial consortium from soil in a slurry sequencing bioreactor. *Journal of Bioremediation & Biodegradation*. 2014;5(7).
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10. Khademi F, Samaei MR, Azizi K, Shahsavani A, Hashemi H, Iraj A, Miri A. Assessing emissions of volatile organic compounds from landfill gas. *Journal of Health Sciences and Surveillance System*. 2016;4(1):2–6.

11. Ansari Shiri M, Dehghani M, Samaei MR. Isolation of atrazine degrading bacteria in semi-salinity medium. *Journal of Health Sciences and Surveillance System*. 2016;4(3):121–128.
12. Rostami S, Azhdarpoor A, Rostami M, Samaei MR. The effects of simultaneous application of plant growth regulators and bioaugmentation on improvement of phytoremediation of pyrene contaminated soils. *Chemosphere*. 2016;161:219–223. DOI: 10.1016/j.chemosphere.2016.07.045.
13. Samaei MR, Elhamiyan Z, Maleknia H, Najarpishe Tiabi M, Mohammadi Z. Toxicity of phenol and salt on the phenol-degrading *Pseudomonas aeruginosa* bacterium. *Jundishapur Journal of Health Sciences*. 2016;8(4).
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15. Jorfi S, Samaei MR, Darvishi Cheshmeh Soltani R, Talaie Khozani A, Ahmadi M, Barzegar G, Reshadatian N, Mehrabi N. Enhancement of the bioremediation of pyrene-contaminated soils using a hematite-nanoparticle based modified Fenton oxidation in a sequenced approach. *Soil and Sediment Contamination*. 2017;26(2):141–156.
16. Rostami S, Azhdarpoor A, Samaei MR. Removal of pyrene from soil using phytobioremediation (*Sorghum bicolor*–*Pseudomonas*). *Health Scope*. 2017;6(4).
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19. Abbasi F, Samaei MR, Mehdizadeh A. The main challenges and suggested solutions for optimization of water management in an educational hospital. *Journal of Environmental Health and Sustainable Development*. 2018;3(3):585–592.
20. Abbasi F, Samaei MR. The effect of temperature on airborne filamentous fungi in indoor and outdoor space of a hospital. *Environmental Science and Pollution Research*. 2019;26(17):16868–16876. DOI: 10.1007/s11356-019-04943-1.
21. Javaheri M, Mokhtati M, Samaei MR, Sedighi Khavidak S, Shamsi F. Evaluation the capability of isolated bacteria from stabilized compost for bioremediation of pyrene and phenanthrene from contaminated soil with municipal solid waste

leachate. *Journal of Environmental Health and Sustainable Development*. 2019;4(3):819–833.

22. Mohammadi F, Samaei MR, Azhdarpoor A, Teiri H, Badeenezhad A, Rostami S. Modeling and optimizing pyrene removal from the soil by phytoremediation using response surface methodology, artificial neural networks, and genetic algorithm. *Chemosphere*. 2019;232:124486. DOI: 10.1016/j.chemosphere.2019.124486.
23. Samaei MR, Jalili M, Abbasi F, Mortazavi SB, Jonidi Jafari A, Bakhshi B. Isolation and kinetic modeling of new culture from compost with high capability of degrading n-hexadecane, focused on *Ochrobactrum oryzae* and *Paenibacillus lautus*. *Soil and Sediment Contamination*. 2020;29(4):384–396. DOI: 10.1080/15320383.2020.1722983.
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Innovation

Chemical coating of activated carbon with copper oxide for photocatalytic removal of methylene blue exposed to sunlight

Languages

Persian — Native
English — Professional working proficiency

1.