



Dr. Mehrnoosh Abtahi

Contact Information

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Academic Rank

Associated Professor

Scientometric links:

Scopus:

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Education

PhD

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

MSc

Environmental Health Engineering, Isfahan University of Medical Science, Isfahan, Iran, 2002

BS

Environmental Health, Shahid Beheshti University of Medical Sciences, Tehran, Iran, 1999

Language Skills

English

Scientific Position

Associated Professor

Department of Environmental Health Engineering, School of Public Health, Ahvaz Jundishapur University of Medical Sciences, 2014-2016

Department of Environmental Health Engineering, School of Public Health and Safety, Shahid Beheshti University of Medical Sciences, 2016

Lecturer

Department of Environmental Health Engineering, School of Public Health, Ahvaz Jundishapur University of Medical Sciences, 2003-2014

Course Teaching

- Air Pollution and Health
- Noise Pollution Control
- Environmental Health Management
- Water Quality Management and Monitoring
- Water Safety Plane
- Municipal Wastewater Treatment
- Industrial Wastewater Treatment
- Water Treatment
- Hazardous Waste Management

- Health Care Waste Management
- Biological Processes of Water and Wastewater Treatment
- Ecology
- Food Hygiene

Research Interests

- Air pollution, health impacts and control
- Noise pollution impacts assessments
- Environmental health and hazard risk management
- Health, safety and environment management system
- Quantification of health effects of occupational and public environment
- Environmental burden of disease
- Environmental monitoring and assessment
- Innovative methods for water and wastewater treatment

Papers

- 1- Zare Bidaki M, Yazdanbakhsh A, Abtahi, M., Ghazi M. Comparing the Effects of Deep and Surface Aeration Methods on Density and Type of Airborne Bacteria and Fungi in Municipal Wastewater Treatment Plant. Journal of Mazandaran University of Medical Sciences 2019; 29(174):121-33.
- 2- Rafiee M, Eslami A, Saeedi R, Abtahi, M., Jahangiri-Rad M. Multivariate and geostatistical analysis of spatial distribution and potential sources of heavy metals in surface waters. Caspian Journal of Environmental Sciences 2019; 17(1):23-41.
- 3- Abtahi, M., Dobaradaran S, Jorfi S, Koolivand A, Khaloo SS, Spitz J, et al. 2019. Age-sex specific disability-adjusted life years (DALYs) attributable to elevated levels of fluoride in drinking water: A national and subnational study in Iran, 2017. Water Research. 157:94-105.
- 4- Abtahi, M., Dobaradaran S, Torabbeigi M, Jorfi S, Gholamnia R, Koolivand A, et al. 2019. Health risk of phthalates in water environment: Occurrence in water resources, bottled water, and tap water, and burden of disease from exposure through drinking water in tehran, Iran. Environmental Research. 173:469-79.
- 5- Sarkhosh M, Sadani M, Abtahi, M., Mohseni S, Sheikhmohammadi A, Azarpira H, et al. 2019. Enhancing photo-degradation of ciprofloxacin using simultaneous usage of eqq-and OH over UV/ZnO/I-process: Efficiency, kinetics, pathways, and mechanisms. Journal of Hazardous Materials. 377:418-26.
- 6- Azarpira H, Abtahi, M., Sadani M, Rezaei S, Atafar Z, Mohseni SM, et al. 2019. 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 (AO/RPs). *Journal of Photochemistry and Photobiology A: Chemistry*. 374:43-51.
- 7- Sarkhosh M, Sadani M, **Abtahi, M.**, Azarpira H, Alidadi H, Atafar Z, et al. 2019. Photo-biological degradation of Bisphenol A, UV/ZnO/Iodide process at the center of biological reactor. *Journal of Photochemistry and Photobiology A: Chemistry*. 374:115-24.
 - 8- Azarpira H, Sadani M, **Abtahi, M.**, Vaezi N, Rezaei S, Atafar Z, et al. 2019. Photo-catalytic degradation of triclosan with UV/iodide/ZnO process: Performance, kinetic, degradation pathway, energy consumption and toxicology. *Journal of Photochemistry and Photobiology A: Chemistry*. 371:423-32.
 - 9- Ghafari S, Baboli Z, Neisi A, Mirzaee S, Darvishi Cheshmeh Soltani R, Saeedi R, **Abtahi, M.**. 2019. Surfactant-enhanced Bioremediation of n-Hexadecane-contaminated Soil Using Halo-tolerant Bacteria *Paenibacillus gluconolyticus* sp. Strain T7-AHV Isolated from Marine Environment. *Chemical and Biochemical Engineering Quarterly*. 33(1):111-23.
 - 10- **Abtahi, M.**, Fakhri Y, Sarafraz M, Keramati H, OliveriConti G, Ferrante M, et al. 2018. Removal of cesium through adsorption from aqueous solutions: a systematic review. *Journal of Advances in Environmental Health Research*. 6(2):96-106.
 - 11- **Abtahi, M.**, Dobaradaran S, Jorfi S, Koolivand A, Mohebbi MR, Montazeri A, et al. 2018. Age-sex specific and sequela-specific disability-adjusted life years (DALYs) due to dental caries preventable through water fluoridation: An assessment at the national and subnational levels in Iran, 2016. *Environmental Research*. 167:372-85.
 - 12- **Abtahi, M.**, Fakhri Y, Oliveri Conti G, Ferrante M, Taghavi M, Tavakoli J, et al. 2018. The concentration of BTEX in the air of Tehran: A systematic review-meta analysis and risk assessment. *International Journal of Environmental Research and Public Health*. 15(9):1837.
 - 13- **Abtahi, M.**, Koolivand A, Dobaradaran S, Yaghmaeian K, Khaloo SS, Jorfi S, et al. 2018. National and subnational mortality and disability-adjusted life years (DALYs) attributable to 17 occupational risk factors in Iran, 1990–2015. *Environmental Research*. 165:158-75.
 - 14- Sheikhmohammadi A, Dahaghin Z, Mohseni SM, Sarkhosh M, Azarpira H, Atafar Z, **Abtahi, M.**, et al. 2018. The synthesis and application of the SiO₂@ Fe₃O₄@ MBT nanocomposite as a new magnetic sorbent for the adsorption of arsenate from aqueous solutions: Modeling, optimization, and adsorption studies. *Journal of Molecular Liquids*. 255:313-23.
 - 15- **Abtahi, M.**, Jorfi S, Mehrabi N, Saeedi R, Darvishi Cheshmeh Soltani R, Barzegar G. 2018. A novel combination of surfactant addition and persulfate-assisted electrokinetic oxidation for remediation of pyrene-contaminated soil. *Chemical and Biochemical Engineering Quarterly*. 32(1):55-69.
 - 16- **Abtahi, M.**, Koolivand A, Dobaradaran S, Yaghmaeian K, Mohseni-Bandpei A, Khaloo SS, et al. 2018. Defluoridation of synthetic and natural waters by polyaluminum chloride-chitosan (PACl-Ch) composite coagulant. *Water Science and Technology: Water Supply*. 18(1):259-69.
 - 17- Jorfi S, Pourfadakari S, Pourhosseini H, Zarei M, **Abtahi, M.**, Saeedi R. 2018. Assessment of Aflatoxin B1 and Ochratoxin A Levels in Rice Produced in Khuzestan and Kohgiluyeh and Boyer Ahmad Provinces, Iran. *Journal of Mazandaran University of Medical Sciences*. 27(156):66-79 (in Persian).

- 18- Nasser S, Ebrahimi S, Abtahi, M., Saeedi R. 2018. Synthesis and characterization of polysulfone/graphene oxide nano-composite membranes for removal of bisphenol A from water. *Journal of environmental Management*. 205:174-82.
- 19- Abtahi, M., Fakhri Y, Oliveri Conti G, Keramati H, Zandsalimi Y, Bahmani Z, et al. 2017. Heavy metals (As, Cr, Pb, Cd and Ni) concentrations in rice (*Oryza sativa*) from Iran and associated risk assessment: a systematic review. *Toxin Reviews*. 36(4):331-41.
- 20- Saeedi R, Khakzad S, Koolivand A, Dobaradaran S, Khaloo SS, Jorfi S, Abtahi, M., et al. 2017. Transformer oils as a potential source of environmental exposure to polychlorinated biphenyls (PCBs): an assessment in three central provinces of Iran. *Environmental Science and Pollution Research*. 24(23):19098-103.
- 21- Barzegar G, Jorfi S, Soltani RDC, Ahmadi M, Saeedi R, Abtahi, M., et al. 2017. Enhanced Sono-Fenton-Like Oxidation of PAH-Contaminated Soil Using Nano-Sized Magnetite as Catalyst: Optimization with Response Surface Methodology. *Soil and Sediment Contamination: An International Journal*. 26(5):538-57.
- 22- Golshan M., Zare, M., Abtahi, M., Babaei, AK. 2017. Fe₃O₄@HAP-enhanced photocatalytic degradation of Acid Red73 in aqueous suspension: optimization, kinetic, and mechanism studies. *Materials Research Bulletin*, 1(2):51-60.
- 23- Sheikhmohammadi, A., Mohseni, M., Sardar, M., Abtahi, M., Mahdavi, S., Keramati, H., et al. 2017. Application of graphene oxide modified with 8-hydroxyquinoline for the adsorption of Cr (VI) from wastewater: Optimization, kinetic, thermodynamic and equilibrium studies. *Journal of Molecular Liquids*, 233:75-88.
- 24- Dobaradaran, S., Nabipour, I., Keshtkar, M., Faraji, F., Nazarialamdarloo, T., Khalifeh, F., Abtahi, M., Reza Saeedi. 2017. Self-purification of marine environments for heavy metals: a study on removal of lead (II) and copper (II) by cuttlebone. *Water Science and Technology*. 75(2):474-81.
- 25- Abtahi, M., Koolivand, A., Dobaradaran, S., Yaghmaeian, K., Mohseni-Bandpei, A., Khaloo, Sh., Jorfi, S., Saeedi R. 2017. National and sub-national age-sex specific and cause-specific mortality and disability-adjusted life years (DALYs) attributable to household air pollution from solid cookfuel use (HAP) in Iran, 1990–2013. *Environmental Research*, 156: 87-96.
- 26- Naddafi, K., Mesdaghinia, A., Abtahi, M., Yaghmaeian, K., Nabizadeh, R., Jaafarzadeh, N., Rastkari, N., Saeedi, R., Nazmara, S., 2016. Removal of dichloromethane from waste gasstreams using a hybrid bubble column/biofilter bioreactor: effect of empty bed retention time and kinetic of biofiltration. *Journal of Air Pollution and Health*, 1(2):51-60.
- 27- Rafiee M, Saeedi R, Abtahi, M., Ghalami S, Jahangiri-Rad M. 2016. Prevalence of hospital-acquired infections in intensive care units in public hospitals in Tehran, Iran, in 2012-2014. *Journal of Advances in Environmental Health Research*. 4(1).
- 28- Abtahi, M., Yaghmaeian, K., Mohebbi, M.R., Koolivand, A., Rafiee, M., Jahangiri-rad, M., Jorfi, S., Saeedi, R., Oktaie, S., 2016. An innovative drinking water nutritional quality index

- (DWNQI) for assessing drinking water contribution to intakes of dietary elements: A national and sub-national study in Iran. *Ecological Indicators*, 60:367–376.
- 29- Jorfi S., Barzegar G., Ahmadi M., Darvishi R., Jafarzadeh N., Takdastan A., Saeedi R., **Abtahi, M.**, 2016. Enhanced coagulation-photocatalytic treatment of Acid red 73 dye and real textile wastewater using UVA/synthesized MgO nanoparticles. *Journal of Environmental Management*, 177: 111-18.
- 30- Takdastan A, Neisi A, Jolanejad M, Ahmadi Angaly K, **Abtahi, M.**, Ahmadi MJ. 2016. The Efficiency of Coagulation Process Using Polyaluminum Silicate Chloride (PASiC) in Removal of Hexavalent Chromium and Cadmium from Aqueous Solutions. *Journal of Mazandaran University of Medical Sciences*. 26(136):99-108 (in Persian).
- 31- **Abtahi, M.**, Golchinpour, N., Yaghmaeian, K., Rafiee, M., Jahangiri-rad, M., Keyani, A., Saeedi, R., 2015. A modified drinking water quality index (DWQI) for assessing drinking source water quality in rural communities of Khuzestan Province, Iran. *Ecological Indicators*, 53:283–291.
- 32- **Abtahi, M.**, Naddafi, K., Mesdaghinia, A., Yaghmaeian, K., Nabizadeh, R., Jaafarzadeh, N., Rastkari, N., Nazmara, S., Saeedi, R., 2014. Removal of dichloromethane from waste gas streams using a hybrid bubble column/biofilter bioreactor. *Journal of Environmental Health Science and Engineering*, 9;12(1):22.
- 33- **Abtahi, M.**, Naddafi, K., Mesdaghinia, A., Yaghmaeian, K., Nabizadeh, R., Jaafarzadeh, N., Rastkari, N., Saeedi, R., Nazmara, S., 2013. Dichloromethane emissions from automotive manufacturing industry in Iran: case study of the SAIPA automotive manufacturing company. *Toxicological & Environmental Chemistry*, 95:757–764.
- 34- Mohebbi, M.R., Saeedi, R., Montazeri, A., Azam Vaghefi, K., Labbafi, S., Oktaie, S., **Abtahi, M.**, Mohagheghian, A., 2013. Assessment of water quality in groundwater resources of Iran using a modified drinking water quality index (DWQI). *Ecological Indicators*, 30:28–34.
- 35- **Abtahi, M.**, Mesdaghinia, A., Saeedi, R., Nazmara, S., 2013. Biosorption of As(III) and As(V) from aqueous solutions by brown macroalga *Colpomenia sinuosa* biomass: kinetic and equilibrium studies. *Desalination and Water Treatment*, 51: 3224–3232.

Editorial Board Activities

Journal of Health in the Field (in Persian), Member of Editorial Board and Scientific Editor

Memberships

Iranian Association of Environmental Health (IAEH)