

Curriculum Vitae



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POSITION TITLE: Professor

RESEARCH IDs

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EDUCATION AND TRAINING

INSTITUTION AND LOCATION	DEGREE	Start Date	Completion Date	FIELD OF STUDY
Isfahan University of Medical Sciences, Isfahan, Iran	Ph.D.	2004	2010	Environmental Health Engineering
Isfahan University of Medical Sciences, Isfahan, Iran	M.Sc.	2000	2002	Environmental Health Engineering
Isfahan University of Medical Sciences, Isfahan, Iran	B.S	1994	1999	Environmental Health Engineering

RESEARCH ITEREST

My recent projects are synthesis of Metal-Organic-Frameworks as nanocomposites for water treatment by Advanced Oxidation Processes, using new coagulants in water treatment, Modifying filter media, Risk assessment of some Inorganic & Organic compounds in water resources, Electro- chemical removal of pollutants from water resources, Membrane filtration of saline and polluted water, Environmental Bio-monitoring of pollutants and etc.

POSITIONS AND EMPLOYMENT

2019 - Present	Professor of Environmental Health Engineering
2015 - 2019	Associate Professor of Environmental Health Engineering
2010 - 2014	Assistant Professor of Environmental Health Engineering
2004 – 2010	Ph.D. Student in Isfahan University of Medical Sciences
2002 – 2005	Lecturer, Lorestan University of Medical Sciences, Khorramabad, Iran. I was involved in teaching undergraduate courses in water & wastewater treatment, and municipal wastewater collection systems, etc. for Environmental Health students.

PUBLICATIONS AND CONTRIBUTIONS

1. Ghanbari S, Fatehizadeh A, **Ebrahimi A**, Bina B, Taheri E, Iqbal HM. Hydrothermally improved manganese-containing catalytic materials to degrade 4-chlorophenol. *Environmental Research*. 2023 Mar 13;115641. (IF=8.431)
2. Khiem TC, Huy NN, Kwon E, Duan X, Waclawek S, Bedia J, Tsai YC, **Ebrahimi A**, Ghanbari F, Lin KY. Hetero-Interface-Engineered Sulfur Vacancy and Oxygen Doping in Hollow Co₉S₈/Fe₇S₈ Nanospheres towards Monopersulfate Activation for Boosting Intrinsic Electron Transfer in Paracetamol Degradation. *Applied Catalysis B: Environmental*. 2023 Mar 2;122550. (IF=24.319)
3. Jiang XY, Kwon E, Chang HC, Huy NN, Duan X, Ghotekar S, Tsai YC, **Ebrahimi A**, Ghanbari F, Lin KY. Tuning nanostructured CuCo₂O₄ on 3D macro-support for enhanced degradation of carbofuran via catalytic activation monopersulfate: Key roles of morphology and active species. *Separation and Purification Technology*. 2023 Mar 1; 308: 122789. (IF=9.136)
4. Moazeni M, Maracy MR, Ghazavi R, Bedia J, Lin KY, **Ebrahimi A**. Removal of triclosan from aqueous matrixes: A systematic review with detailed meta-analysis. *Journal of Molecular Liquids*. 2023 Feb 11;121450. (IF=6.663)
5. Jiang XY, Kwon E, Wen JC, Bedia J, Thanh BX, Ghotekar S, Lee J, Tsai YC, **Ebrahimi A**, Lin KY. Direct Growth of Nano-Worm-like Cu₂S on Copper Mesh as a Hierarchical 3D Catalyst for Fenton-like Degradation of an Imidazolium Room-Temperature Ionic Liquid in Water. *Journal of Colloid and Interface Science*. 2023 Jan 8. (IF=9.965)
6. Moazeni M, Rahimi M, **Ebrahimi A**. What are the effects of climate variables on COVID-19 pandemic? A systematic review and current update. *Advanced Biomedical Research*. 2023 Jan 1;12(1):33.
7. Mao PH, Kwon E, Chang HC, Bui HM, Phattarapattamawong S, Tsai YC, Lin KY, **Ebrahimi A**, Yee YF, Yuan MH. Modulating Direct Growth of Copper Cobaltite Nanostructure on Copper Mesh as a Hierarchical Catalyst of Oxone Activation for Efficient Elimination of Azo Toxicant. *Nanomaterials*. 2022 Jan;12 (24):4396. (IF=5.719)
8. Moazeni, M., Ebrahimpour, K., Etebari, M., Bedia, J., Lin, K.-Y.A., **Ebrahimi, A.**, Cobalt ferrite/MIL-101(Fe)/graphene oxide heterostructures coupled with peroxymonosulfate for triclosan degradation (2022) *Journal of Water Process Engineering*, 50, 103214. (IF=7.34)
9. Attarian, E., Ebrahimpour, K., Maracy, M., Daniali, S.S., Shoshtari-Yeganeh, B., Moazeni, M., **Ebrahimi, A.**, Kelishadi, R., Effect of Maternal Triclosan Exposure on Neonatal Thyroid-Stimulating Hormone Levels: A Cross-Sectional Study (2022) *Journal of Environmental and Public Health*, 2022, 3082304. (IF=2.791)
10. Mofrad, M.M.G., Sillanpää, M., Parseh, I., **Ebrahimi, A.**, Amin, M.M., A Brief Review on Working Fluid Wastewater Treatment: A Glance at the Disposal of Exhausted Fluids Used in the Organic Rankine Cycle

(2022) Journal of Health Sciences and Surveillance System, 10 (3), pp. 266-275.

11. Rahimi, B., Rahimi, N.R., **Ebrahimi, A.**, Catalytic reduction of hazardous acid orange 10 dye by BiVO₄/TiO₂ nanocrystalline heterojunction and influence of aeration, FeSO₄, H₂O₂ and FeCl₃ on removal efficiency: A novel and environmentally friendly process (2022) Arabian Journal of Chemistry, 15 (8), 104003. (IF=6.121)
12. Chatraee, M., **Ebrahimi, A.**, Fatehizadeh, A., Enhanced electro-Fenton processes by persulfate radical for atenolol oxidation from aqueous solution (2022) Environmental Health Engineering and Management, 9 (2), pp.147-155.
13. Moazeni, M., Maracy, M.R., Dehdashti, B., **Ebrahimi, A.**, Spatiotemporal analysis of COVID-19, air pollution, climate, and meteorological conditions in a metropolitan region of Iran (2022) Environmental Science and Pollution Research, 29 (17), pp. 24911-24924. (IF=5.190)
14. Moazeni, M., Hashemian, S.M., Sillanpää, M., **Ebrahimi, A.**, Kim, K.H., A heterogeneous peroxymonosulfate catalyst built by Fe-based metal-organic framework for the dye degradation (2022) Journal of Environmental Management, 303, 113897, Cited 4 times. (IF=8.91)
15. Rejali M, Dashtaki NM, **Ebrahimi A**, Heidari A, Maracy MR. Cutaneous leishmaniasis based on climate regions in Iran (1998-2021): A systematic review and meta-analysis. Advanced Biomedical Research. 2022 Jan 1;11(1):120.
16. Rafiei N, Fatehizadeh A, Amin MM, Pourzamani HR, **Ebrahimi A**, Taheri E, Aminabhavi TM. Application of UV/chlorine processes for the DR83: 1 degradation from wastewater: Effect of coexisting anions. Journal of Environmental Management. 2021 Nov 1;297: 113349. (IF=8.91)
17. Maracy MR, Jaffary F, **Ebrahimi A**, Sokhanvari F, Heidari A, Sharifian-Koupaiee H, Fadaei R, Ramazanpour J, Moazeni M., GIS-based risk mapping of cutaneous leishmaniasis: a survey in an endemic area of Central Iran. Environmental Science and Pollution Research. 2021 Nov;28(41):57470-85. (IF=5.190)
18. Aghapour S, Bina B, Tarrahi MJ, Amiri F, **Ebrahimi A.**, Comparative health risk assessment of nitrate in drinking groundwater resources of urban and rural regions (Isfahan, Iran), using GIS. Environmental Monitoring and Assessment. 2021 Dec;193(12):1-7. (IF=3.307)
19. Jafari N, Abdolahnejad A, Behnami A, Mohammadi A, Fanaei F, **Ebrahimi A**. Evaluation of microcystin-LR photocatalytic degradation in aqueous solutions by BiVO₄/NaY-Zeolite nanocomposite: determination of optimum conditions by response surface methodology (RSM). Toxin Reviews. 2022 Apr 3;41(2):564-76. (IF=3.166)
20. Rahimi B, Rezaie-Rahimi N, Jafari N, Abdolahnejad A, **Ebrahimi A.**, Experimental data on the removal of acid orange 10 dye from aqueous solutions using TiO₂/Na-Y zeolite and BiVO₄/Na-Y zeolite nanostructures: A comparison study. Data in brief. 2021; 35: 106869.
21. Moazeni M, Gholipour S, Mahaki B, **Ebrahimi A**. Short-term impact of two kinds of vegetables to exogenous total nitrate and nitrite intake: Is antibacterial mouthwash influential? International Journal of Preventive Medicine. 2021;12.
22. **Afshin Ebrahimi**, Negar Jafari, Karim Ebrahimpour, Mahbobe Karimi, Sadegh Rostamnia, Ali Behnami, Reza Ghanbari, Amir Mohammadi, Behzad Rahimi, Ali Abdolahnejad., A novel ternary heterogeneous TiO₂/BiVO₄/NaY-Zeolite nanocomposite for photocatalytic degradation of microcystin-leucine arginine (MC-LR) under visible light. Ecotoxicology and Environmental Safety. 2021;210 (2021). (IF=7.129)
23. Moazeni M, Heidari Z, Golipour S, Ghaisari L, Sillanpää M, **Ebrahimi A.**, Dietary intake and health risk assessment of nitrate, nitrite, and nitrosamines: a Bayesian analysis and Monte Carlo simulation. Environmental Science and Pollution Research. 2020;27(36):45568-80. (IF=5.190)

24. **Ebrahimi A**, Jafari N, Ebrahimpour K, Nikoonahad A, Mohammadi A, Fanaei F, et al., The performance of TiO₂/NaY-zeolite nanocomposite in photocatalytic degradation of Microcystin-LR from aqueous solutions: Optimization by response surface methodology (RSM). *Environmental Health Engineering and Management Journal*. 2020;7(4): 245-56.
25. Mansouri N, Etebari M, **Ebrahimi A**, Ebrahimpour K, Rahimi B, Hassanzadeh A., Genotoxicity and phytotoxicity comparison of cigarette butt with cigarette ash. *Environmental Science and Pollution Research*. 2020;27(32):40383-91. (IF=5.190)
26. Taheri E, Hadi S, Amin MM, **Ebrahimi A**, Fatehizadeh A, Aminabhavi TM., Retention of atenolol from single and binary aqueous solutions by thin film composite nanofiltration membrane: Transport modeling and pore radius estimation. *Journal of Environmental Management*. 2020; 271:111005. [IF= 8.91]
27. Jafari N, **Ebrahimi A**, Ebrahimpour K, Abdolahnejad A., Optimization and Modeling of Microcystin-LR Degradation by TiO₂ Photocatalyst Using Response Surface Methodology. *Journal of Environmental Health and Sustainable Development*. 2020 Sep 10; 5(3):1063-76.
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29. Mahdavi M, Mahvi AH, Salehi M, Sadani M, Biglari H, Tashauoe HR. **Ebrahimi A**, Wastewater reuse from hemodialysis section by combination of coagulation and Ultrafiltration processes: Case study in saveh-iran hospital. *Desalin. Water Treat*. 2020 Jul 1; 193:274-83. (IF= 1.273)
30. **Ebrahimi A**, Ebrahim K, Abdolahnejad A, Jafari N, Karimi M, Mohammadi A, Nikoonahad A., Photocatalytic degradation of microcystin-LR using BiVO₄ photocatalysts under visible light irradiation: modelling by response surface methodology (RSM). *International Journal of Environmental Analytical Chemistry*. 2020 Sep 19:1-8. (IF= 2.731)
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33. Jafari N, Ebrahimpour K, Abdolahnejad A, Karimi M, **Ebrahimi A.**, Efficient degradation of microcystin-LR by BiVO₄/TiO₂ photocatalytic nanocomposite under visible light. *Journal of Environmental Health Science and Engineering*. 2019; 17(2): 1171-83. (IF=3.433)
34. Abdolahnejad A, Gheisari L, Karimi M, Norastehfar N, Ebrahimpour K, Mohammadi A, **Ebrahimi A.**, Monitoring and health risk assessment of phthalate esters in household's drinking water of Isfahan, Iran. *International Journal of Environmental Science and Technology*. 2019; 16 (11): 7409-16. (IF=3.519)
35. **Ebrahimi A**, Karimpour E, Godazandehha Z, Heidari Z, Zarean M, Moazeni M. Exposure Assessment of Total Mercury: A Probabilistic-Approach Study Based on Consumption of Canned Fish. *Journal of Environmental Health and Sustainable Development*. 2019 Sep 10;4(3):804-12.
36. Mansureh Farzanmehr, Bijan Bina, **Afshin Ebrahimi**. Investigation of Drinking Water Quality and Residual Concentrations of Chlorpyrifos and Parathion Pesticides in Groundwater of Dezful City, Iran, in

2016. Journal of Health System Research. 2019 Sep 10;15(2):158-68. [In persian]
37. Rahimi B, Jafari N, Abdolahnejad A, Farrokhzadeh H, **Ebrahimi A.**, Application of efficient photocatalytic process using a novel BiVO₄/TiO₂-NaY zeolite composite for removal of acid orange 10 dye in aqueous solutions: Modeling by response surface methodology (RSM). Journal of Environmental Chemical Engineering. 2019;7(4):103253. (IF=7.968)
 38. Rahimi B, **Ebrahimi A.**, Photocatalytic process for total arsenic removal using an innovative BiVO₄/TiO₂/LED system from aqueous solution: optimization by response surface methodology (RSM). Journal of the Taiwan institute of chemical engineers. 2019 Aug 1; 101:64-79. (IF=5.477)
 39. Maryam Faraji, **Afshin Ebrahimi**, Heshmatollah Nourmoradi, Ali Nikoonahad, Ali Abdolahnejad, Reza Ghanbari, Amir Mohammadi., Optimizing the removal of humic acid with polyaluminum chloride and polyaluminum ferric chloride as green coagulants using response surface methodology. Desalination and Water Treatment. 2019; 139 (2019): 297–304.
 40. Mokhtar Mahdavi, Amir Hossein Mahvi, Ali Fatehizadeh, Mohsen Sadani, Behzad Shahmoradi, **Afshin Ebrahimi.**, A comparison study of granular activated carbon modification by FeCl₃ under the acidic and basic condition for arsenic removal from water. Desalination and Water Treatment. 2019; 137: 134–42.
 41. Rahimi B, **Ebrahimi A**, Mansouri N, Hosseini N., Photodegradation process for the removal of acid orange 10 using titanium dioxide and bismuth vanadate from aqueous solution. Global Journal of Environmental Science and Management. 2019; 5(1): 43-60.
 42. Sajjadi SA, **Ebrahimi A**, Kianmehr M, Salari S, Hashemi M, Hedayati Zanganeh S, et al. Modeling Environmental UV and Gamma Radiations for Health Protection. Health Scope. 2018; 7(4).
 43. Abdolahnejad A, Shirdel E, Raesivand S, **Ebrahimi A**, Jafari N. Surveying and Zoning of Nitrate Concentration in Groundwater Resources in Freidan Township, Iran, Using Geographic Information System (GIS). Journal of Health System Research. 2018 Oct 10;14(3):390-5. [In persian]
 44. Feyzi Z, **Ebrahimi A.** Removal of Humic Acid from Aqueous Solutions by Using Potassium Ferrate. Journal of Health System Research. 2018 Jul 10;14(2):272-8. [In persian]
 45. Mohammadi H, Bina B, **Ebrahimi A.** A novel three-dimensional electro-Fenton system and its application for degradation of anti-inflammatory pharmaceuticals: modeling and degradation pathways. Process Safety and Environmental Protection. 2018 Jul 1; 117:200-13.
 46. Jafari, N., Alavijeh, R.S., Abdolahnejad, A., Farrokhzadeh, H., Amin, M.M. and **Ebrahimi, A.**, 2018. An innovative approach to attached cultivation of *Chlorella vulgaris* using different materials. Environmental Science and Pollution Research, pp.1-9.
 47. Amin MM, Bina B, **Ebrahimi A**, Yavari Z, Mohammadi F, Rahimi S. The occurrence, fate, and distribution of natural and synthetic hormones in different types of wastewater treatment plants in Iran. Chinese Journal of Chemical Engineering. 2018 May 1; 26 (5):1132-9.
 48. Amin MM, **Ebrahimi A**, Marasi G, Tahvilian H. Biokinetic Coefficient Determination of Sanitary Wastewater Treatment in Aeration Lagoon in Full Scale (Case Study: Sepahanshahr Wastewater Treatment Plant, Iran). Journal of Health System Research. 2018 Apr 10;14(1):91-7. [In persian]
 49. Tavakkolian A, **Ebrahimi A**, Pourzamani H, Yadegarfar G. A Survey on Medical Solid Waste Management in Hospitals in Bushehr Province, Iran, in Years 2015-2016. Journal of Health System Research. 2018 Apr 10;14(1):48-55. [In persian]

50. Mahdavi, M., **Ebrahimi, A.**, Mahvi, A.H., Fatehizadeh, A., Karakani, F. and Azarpira, H., 2018. Experimental data for aluminum removal from aqueous solution by raw and iron-modified granular activated carbon. *Data in brief*, 17, pp.731-738.
51. Aghapour, S., Bina, B., Tarrahi, M.J., Amiri, F. and **Ebrahimi, A.**, 2018. Distribution and health risk assessment of natural fluoride of drinking groundwater resources of Isfahan, Iran, using GIS. *Environmental monitoring and assessment*, 190 (3), p.137.
52. Parastar, S., Ebrahimpour, K., Hashemi, M., Maracy, M.R., **Ebrahimi, A.**, Poursafa, P. and Kelishadi, R., 2018. Association of urinary concentrations of four chlorophenol pesticides with cardiometabolic risk factors and obesity in children and adolescents. *Environmental Science and Pollution Research*, 25(5), pp.4516-4523.
53. Shirdel E, Abdolanejad A, Raesivand S, **Ebrahimi A**, Jafari N. A Survey on the Efficacy of Dilution Performance for Nitrate Reduction in Freidan County, Iran. *Journal of Health System Research*. 2018 Jan 10;13(4):410-4. [In persian]
54. **Ebrahimi A**, Nemati S, Abdolahnejad A, Faraji M, Mohammadi A. Optimizing removal condition of CBP precursors in water resources by activated Nano-carbon and Nano zeolite using taguchi method. *Journal of Health*. 2018 Jan 10;8(5):539-51. [In persian]
55. Parastar S, **Ebrahimi A**, Mohammadi HA, Mengelizadeh N, Parseh I, Rafiei N, Bagheri R, Hashemi M. Removal of BPA from aqueous solutions by electrocoagulation using iron electrodes and optimization. *Journal of Environmental Health Engineering*. 2018;5(3):264-76. [In persian]
56. Mahdavi M, Amin MM, Mahvi AH, Pourzamani H, **Ebrahimi A**. Metals, heavy metals and microorganism removal from spent filter backwash water by hybrid coagulation-UF processes. *Journal of Water Reuse and Desalination*. 2018 Jun;8(2):225-33.
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59. Abdolahnejad A, Kamali A, Mohammadi A, Shabanian E, Hajizadeh Y, **Ebrahimi A**, Jafari N. Determination of Microbial and Chemical Contamination of Potable Water Served in Passenger Buses: A Case Study in Soffeh Terminal, Isfahan, Iran. *Journal of Health System Research*. 2017 Oct 10;13(3):317-21. [In persian]
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61. **Ebrahimi, A.**, Amin, M. M., Pourzamani, H., Hajizadeh, Y., Mahvi, A. H., Mahdavi, M., Rad, M. H. R., Hybrid coagulation-UF processes for spent filter backwash water treatment: a comparison studies for PAFCl and FeCl₃ as a pre-treatment, 2017, *Environmental Monitoring and Assessment* 189(8).
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dimethylformamid as solvent to fabricate electrodes coated with single wall carbon nanotubes. *International Journal of Environmental Health Engineering*. 2016 Mar 1;5(March):1-6.

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PROFESSIONAL SERVICES

Reviewer in the international journals:

- 1- Reviewer of "Environmental Research", 2020-Present;
- 2- Reviewer of "Desalination & Water Treatment Journal", 2016-Present;
- 3- Reviewer of "J. of Hazardous Materials", Up to Present;
- 4- Reviewer of "Chemosphere", Up to Present;
- 5- Reviewer of "Ecotoxicology and environmental safety", Up to Present;
- 6- Reviewer of "Environmental Research", Up to Present;
- 7- Reviewer of "Journal of Environmental Health Sciences & Engineering (ISI)", 2015-Present;
- 8- Reviewer of "Water & Health Journal-IWA", 2014- Present;

PROFESSIONAL/SCIENTIFIC ASSOCIATION MEMBERSHIP

- 1- Associate Editor, Health System Research Journal (In Persian), 2015-Present
- 2- Associate Editor, International Journal of Environmental Health Engineering (IJEHE), Scopus; 2013-Present
- 3- Member of the Environmental Health Association of Iran, 2001-present

WORKSHOP AND TRAINING

- 1- Workshop on: "*Patterns and Methods of Active Teaching*", Isfahan University of Medical Sciences - Education and Development Center- (EDC), 6-8 August 2005, Isfahan, Iran.
- 2- Workshop on: "*Education Planning, Teaching Method, and Student Evaluation*", Isfahan University of Medical Sciences - Education and Development Center- (EDC), 6-8 August 1999, Isfahan, Iran.
- 3- Workshop on: "*Consulting and Guidance of Students*", Isfahan University of Medical Sciences - Education and Development Center- (EDC), 5 March 2006, Isfahan, Iran.