



Curriculum Vitae

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NAME: Ali Fatehizadeh

POSITION TITLE: Assistant 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.	2011	2015	Environmental Health Engineering
Kerman University of Medical Sciences, Kerman, IRAN	M.Sc.	2007	2011	Environmental Health Engineering
Tehran University of Medical Sciences, Tehran, IRAN	B.S	2003	2007	Environmental Health Engineering

RESEARCH INTEREST

I am broadly interested in water and wastewater treatment with particular emphasis on physical, chemical and biological treatment and biotechnology. In particular, my future research interests are shaped by the emerging trend towards to treatment process with high efficiency and material recovery. My research agenda focuses on the question of how to use this process to continue the trend of exponentially improving process performance. My past research investigates adsorption, ion exchange, electrocoagulation, AOPs and membrane filtration for contaminants removal from aqueous solution. In this statement, I briefly summarize the contributions of my prior research, and detail my future research plans.

HONORS AND AWARDS

2014 Outstanding presentation in the idea festival in improving research in Isfahan University of Medical Sciences

POSITIONS AND EMPLOYMENT

2016-Present Assistant Professor of Environmental Health Engineering, Isfahan University of Medical Sciences, Isfahan, IRAN.

PUBLICATIONS AND CONTRIBUTIONS

2019

- MM Amin, E Taheri, B Bina, SW van Ginkel, M Ghasemian, NIM Puad, A Fatehizadeh, Electron flow of biological H₂ production by sludge under simple thermal treatment: Kinetic study, *Journal of environmental management* 250, 109461.
- B Bina, MM Amin, H Pourzamani, A Fatehizadeh, M Ghasemian, M Mahdavi, E Taheri, Biohydrogen production from alkaline wastewater: The Stoichiometric reactions, Modeling, and Electron Equivalent, *MethodsX* 1.
- A Fatehizadeh, MR Zare, SW Van Ginkel, E Taheri, MM Amin, N Rafiei, M Mahdavi, Methyl tertiary-butyl ether adsorption by bioactivated carbon from aqueous solution: kinetics, isotherm and artificial neural network modeling, *Desalination and Water treatment* 154, 254-267.
- A Rahmani, A Asadi, A Fatehizadeh, AR Rahmani, MR Zare, Interactions of Cd, Cr, Pb, Ni, and Hg in their effects on activated sludge bacteria by using two analytical methods, *Environmental monitoring and assessment* 191 (3), 1241.
- M Darvishmotevalli, M Moradnia, M Noorisepehr, A Fatehizadeh, S Fadaei, H Mohammadi, M Salari, HA Jamali, SS Daniali, Evaluation of carcinogenic risks related to nitrate exposure in drinking water in Iran, *MethodsX* 6, 1716-1727.
- M Mahdavi, AH Mahvi, A Fatehizadeh, M Sadani, B Shahmoradi, A 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* 137, 134-142.

2018

- A Fatehizadeh, MM Amin, B Bina, MR Zare, M Ghasemian, E Taheri, Biohydrogen Production as Clean Fuel from physically Pretreated Mixed Culture, *Advanced Biomedical Research* 7 (1), 80
- A Fatehizadeha, E Taheria, MM Amina, M Mahdavid, N Moradia, Sodium and potassium removal from brackish water by nanofiltration membrane: single and binary salt mixtures, *Desalination and Water Treatment* 103, 65-71.
- E Taheri, MM Amin, A Fatehizadeh, H Pourzamani, B Bina, H Spanjers, Biohydrogen production under hyper salinity stress by an anaerobic sequencing batch reactor with mixed culture, *Journal of Environmental Health Science and Engineering* 16 (2), 159-170.
- E Taheri, MM Amin, H Pourzamani, A Fatehizadeh, M Ghasemian, B Bina, Comparison of Acetate-butyrate and Acetate-ethanol Metabolic Pathway in Biohydrogen Production, *Journal of Medical Signals and Sensors* 8 (2), 2018.
- E Taheri, MM Amin, M Ghasemian, N Rafiei, A Fatehizadeh, Modeling of extracellular polymeric substances production at different Carbon/Nitrogen ratio and solid retention time by artificial neural network, *International Journal of Environmental Health Engineering* 7 (1).
- *Journal of medical signals and sensors* 8 (2), 101.
- M Mahdavi, A Ebrahimi, AH Mahvi, A Fatehizadeh, F Karakani, H Azarpira, Experimental data for aluminum removal from aqueous solution by raw and iron-modified granular activated carbon, *Data in brief* 17, 731-738, 2018.
- N Moradi, MM Amin, A Fatehizadeh, Z Ghasemi, Degradation of UV-filter Benzophenon-3 in aqueous solution using TiO₂ coated on quartz tubes, *Journal of Environmental Health Science and Engineering* 16 (2), 213.

2017

- MM Amin, B Bina, E Taheri, MR Zare, M Ghasemian, SW Van Ginkel, Metabolism and kinetic study of bioH₂ production by anaerobic sludge under different acid pretreatments, *Process Biochemistry* 61, 24-29, 2017.

- M Mahdavi, AH Mahvi, H Pourzamani, A Fatehizadeh, A Ebrahimi, High turbid water treatment by Kenaf fibers: a practical method for individual water supply and remote areas, *Desalination and Water Treatment* 76, 225-231, 2017.
- MM Amin, T Kalteh, M Rezaei, N Mengelizadeh, P Salehi, A Fatehizadeh, Bioremediation of contaminated soil with Phenanthrene and Anthracene using poultry manure as co-substrate, *Journal of Mazandaran University of Medical Sciences* 26 (146), 139-147, 2017.
- VR Fanaie, M Karrabi, MM Amin, B Shahnava, A Fatehizadeh, Biosorption of 4-chlorophenol by dried anaerobic digested sludge: artificial neural network modeling, equilibrium isotherm, and kinetic study, *International Journal of Environmental Science and Technology* 14 (1), 37-48, 2017.

2016

- MM Amin, B Bina, E Taheri, A Fatehizadeh, M Ghasemian, Stoichiometry evaluation of biohydrogen production from various carbohydrates, *Environmental Science and Pollution Research* 23 (20), 20915-20921, 2016.
- N Yousefi, A Fatehizadeh, K Ghadiri, N Mirzaei, SD Ashrafi, AH Mahvi, Application of Nanofilter in removal of phosphate, fluoride and nitrite from groundwater, *Desalination and Water Treatment* 57 (25), 11782-11788, 2016.
- MR Zare, MM Amin, M Nikaeen, M Zare, B Bina, A Fatehizadeh, Simplification and sensitivity study of Alamar Blue bioassay for toxicity assessment in liquid media, *Desalination and Water Treatment* 57 (23), 10934-10940, 2016.
- MR Zare, Ali Fatehizadeh, MM Amin, E Taheri, B Bina, M Erfani, Assessment of probable toxicity of 3 kinds of metal plating industry wastewater on bacteria of sequencing batch reactor unit, *Health System Research* 13 (2), 2016 (In Persian).
- MR Zare, Ali Fatehizadeh, MM Amin, A Ebrahimi, B Bina, Assessment of the half maximal effective concentration of growth inhibition for heavy metals on bacteria present in sequencing batch reactor, *Health System Research* 12 (1), 77-83, 2016 (In Persian).
- VR Fanaie, M Karrabi, MM Amin, B Shahnava, A Fatehizadeh, Application of response surface methodology and artificial neural network for analysis of p-chlorophenol biosorption by dried activated sludge, *Journal of Applied Chemical Research* 10 (2), 25-37, 2016.
- VR Fanaie, M Karrabi, MM Amin, B Shahnava, A Fatehizadeh, A comparative study between dried anaerobic digested sludge and dried activated sludge for the removal of 4-chlorophenol from aqueous solutions, *International Journal of Environmental Health Engineering* 5 (1), 6, 2016.

2015

- M Zare, MM Amin, M Nikaeen, B Bina, H Pourzamani, A Fatehizadeh, Resazurin reduction assay, a useful tool for assessment of heavy metal toxicity in acidic conditions, *Environmental monitoring and assessment* 187 (5), 276, 2015.
- M Malakootian, N Yousefi, A Fatehizadeh, SW Van Ginkel, M Ghorbani, Nickel (II) removal from industrial plating effluent by Fenton process, *Environmental Engineering and Management Journal* 14 (4), 837-842, 2015.
- M Tabeidian, M Aminsadri, A Aghababaie, E Taheri, A Fatehizadeh, M Mahdavi, B Bina, MM Amin, A Ebrahimi, Survey of efficiency evaluation of modified and unmodified clinoptilolite for nitrate removal from aqueous solutions, *Health System Research* 11 (3), 638-649 1, 2015 (In Persian).
- M Hadei, M Aalipour, A Fatehizadeh, HR Safavi, M Ghasemian, Determination of biokinetic coefficients for an adsorption/bio-oxidation process on municipal wastewater in pilot-scale, *International Journal of Environmental Health Engineering* 4 (1), 35, 2015.
- MR Zare, A Fatehizadeh, MM Amin, B Bina, A Rahmani, H Rahmani, Effect of metal plating industry effluents on biological wastewater treatment, *International Journal of Environmental Health Engineering* 4 (1), 39, 2015.
- MM Amin, A Kazemi, O Eskandari, M Ghias, A Fatehizadeh, MR Zare, Geographical distribution of stomach cancer related to heavy metals in Kurdistan, Iran, *International Journal of Environmental Health Engineering* 4 (1), 12, 2015.

2014

- MM Amin, MH Khiadani, A Fatehizadeh, E Taheri, Validation of linear and non-linear kinetic modeling of saline wastewater treatment by sequencing batch reactor with adapted and non-adapted consortiums, *Desalination* 344, 228-235, 2014.
- S Rahimi, M Ahmadian, R Barati, N Yousefi, SP Moussavi, K Rahimi, S Reshadat, SR Ghasemi, N Rajabi Gilan, A Fatehizadeh, Photocatalytic removal of cadmium (II) and lead (II) from simulated wastewater at continuous and batch system, *International Journal of Environmental Health Engineering* 3 (1), 31, 2014.

2013

- B Bina, M Amin, M Zare, A Fatehizadeh, M Mohseni, M Zare, A Toulabi, Comparison of CuO and TiO₂ Nanoparticles toxicity and Antibacterial Properties in the Solid Media, *Iranian Journal of Health and Environment* 6 (2), 167-176, 2013.
- S Rahimi, MH Ehrampoush, MT Ghaneian, S Reshadat, A Fatehizadeh, M Ahmadian, G Ghanizadeh, S Rahimi, Application of TiO₂/UV-C photocatalytic process in removal of reactive red 198 dye from synthetic textile wastewater, *Asian Journal of Chemistry* 25 (13), 7427, 2013.
- N Yousefi, A Fatehizadeh, A Ahmadi, A Rajabizadeh, A Toolabi, The efficiency of modified wheat bran in reactive black 5 dye removal from aqueous solutions, *Journal of Health and Development* 2 (2), 157-169, 2013
- SH Mirhossieni, M Birjandi, MR Zare, A Fatehizadeh, Analysis of particulate matter (pm₁₀ and pm_{2.5}) concentration in Khorramabad city, IRAN, *health system research* 9 (1), 104-109, 2013, (In Persian).
- MR Zare, Y Poureshgh, A Fatehizadeh, A Shahriary, A Toolabi, M Rezaei, Annual and seasonal variation of turbidity, total dissolved solids, nitrate and nitrite in the Parsabad water treatment plant, Iran, *International Journal of Environmental Health Engineering* 2 (1), 37, 2013.
- A Ebrahimi, E Taheri, MH Ehrampoush, S Nasiri, F Jalali, R Soltani, A Fatehizadeh, Efficiency of constructed wetland vegetated with *Cyperus alternifolius* applied for municipal wastewater treatment, *Journal of environmental and public health* 2013, 9, 2013.
- M Ahmadian, S Reshadat, N Yousefi, SH Mirhossieni, MR Zare, SR Ghasemi, N Rajabi Gilan, R Khamutian, A Fatehizadeh, Municipal leachate treatment by Fenton process: effect of some variable and kinetics, *Journal of environmental and public health* 2013,19, 2013.
- H Hossaini, A Fatehizadeh, N Yousefi, S Reshadat, NR Gilan, SR Ghasemi, M Ahmadian, Application of enhanced softening process in slaughterhouse wastewater treatment, *Indian Journal of Chemical Technology*, 20(3), 217-221, 2013.
- H Farrokhzadeh, E Taheri, A Ebrahimi, A Fatehizadeh, MV Dastjerdi, B Bina, Effectiveness of moringa oleifera powder in removal of heavy metals from aqueous solutions, *Fresenius Environmental Bulletin* 22 (5a), 1516-1523, 2013.
- A Nickheslat, MM Amin, H Izanloo, A Fatehizadeh, SM Mousavi, Phenol photocatalytic degradation by advanced oxidation process under ultraviolet radiation using titanium dioxide, *Journal of environmental and public health* 2013, 18, 2013.
- H Moradpour, A Fatehizadeh, MM Amin, M Nikaeen, A Shafiea, R Molayi, A Sabouri, M Ghasemian, H Farrokhzadeh, Biodegradation performance of anaerobic sequencing batch biofilm reactor for oil with polychlorinated biphenyls, *International Journal of Environmental Health Engineering* 2 (1), 19, 2013.
- SH Mirhosseini, M Birjandi, MR Zare, A Fatehizadeh, Analysis of Particulate matter (PM₁₀ and PM_{2.5}) concentration in Khorramabad city, *International journal of environmental health engineering* 2 (1), 3, 2013.

2012

- AR Montazerabadi, M Ahmadian, MR Vahed, N Yousefi, A Fatehizadeh, P Borhani, A Rajabizadeh, AR Binesh, A Shakerizadeh, AH Mahvi, Evaluation of ²²²Rn rate in medical dormitory of Kerman city, *International Journal of Radiation Research* 10 (3/4), 171, 2012.

- M Ahmadian, N Yosefi, A Toolabi, N Khanjani, S Rahimi, A Fatehizadeh, Adsorption of direct yellow 9 and acid orange 7 from aqueous solutions by modified pumice, *Asian Journal of Chemistry* 24 (7), 3094, 2012.
- M Ahmadian, N Yousefi, SW Van Ginkel, MR Zare, S Rahimi, A Fatehizadeh, Kinetic study of slaughterhouse wastewater treatment by electrocoagulation using Fe electrodes, *Water Science and Technology* 66 (4), 754-760, 2012.
- M Malakootian, A Fatehizadeh, E Meydani, Investigation of corrosion potential and precipitation tendency of drinking water in the Kerman distribution system, *Toloo-E-Behdasht* 11 (336), 1-10, 2012 (In Persian).
- A Nadi, A Fatehizadeh, AH Hassani, MR Marasy, MM Amin, Anaerobic biodegradation of ethylene dichloride in an anaerobic sequential batch reactor, *International Journal of Environmental Health Engineering* 1 (1), 35, 2012.
- S Fazeli, A Fatehizadeh, AH Hassani, A Torabian, MM Amin, Evaluation of flat sheet membrane bioreactor efficiency for municipal wastewater treatment, *International Journal of Environmental Health Engineering* 1 (1), 19, 2012.
- M Zare, A Toolabi, MR Zare, M Sarkhosh, AH Mahvi, A Rahmani, A Fatehizadeh, Outdoor investigation of air quality around Bandar Abbas-Iran oil refinery, *International Journal of Environmental Health Engineering* 1 (1), 9, 2012.
- M Estebar, MM Amin, P Poursafa, M Ghasemian, N Jaafarzadeh, H Hashemi, A Fatehizadeh, Biodegradation of benzene-toluene-xylene in petrochemical industries wastewater through anaerobic sequencing biofilm batch reactor in bench scale, *International Journal of Environmental Health Engineering* 1 (1), 22, 2012.
- M Malakootian, SK Ghadiri, N Yousefi, A Fatehizadeh, Isotherms and kinetics studies of biosorption nickel (II) and chromium (VI) from aqueous solution by dried activated sludge, *International Journal of Environmental Health Engineering* 1 (1), 2 4, 2012.

2011

- M Malakootian, N Yousefi, A Fatehizadeh, Survey efficiency of electrocoagulation on nitrate removal from aqueous solution, *International Journal of Environmental Science & Technology* 8 (1), 107-114, 2011.
- M Malakootian, A Fatehizadeh, N Yousefi, M Ahmadian, M Moosazadeh, Fluoride removal using Regenerated Spent Bleaching Earth (RSBE) from groundwater: Case study on Kuhbonan water, *Desalination* 277 (1-3), 244-249, 2011.
- M Malakootian, A Fatehizadeh, N Yousefi, Evaluating the effectiveness of modified pumice in fluoride removal from water, *Asian Journal of Chemistry* 23 (8), 3691, 2011.
- AH Mahvi, M Malakootian, A Fatehizadeh, MH Ehrampoush, Nitrate removal from aqueous solutions by nanofiltration, *Desalination and Water Treatment* 29 (1-3), 326-330, 2011.
- M Malakootian, AH Mahvi, A Fatehizadeh, MH Ehrampoush, Efficiency of calcium and magnesium removal by nanofiltration membrane from synthetic water under different operating conditions, *Toloo-E-Behdasht*, 5, 2011 (In Persian).
- M Malakootian, M Moosazadeh, N Yousefi, A Fatehizadeh, Fluoride removal from aqueous solution by pumice: case study on Kuhbonan water, *African Journal of Environmental Science and Technology* 5 (4), 299-306, 2011.

2010

- M Malakootian, A Fatehizadeh, Color removal from water by coagulation/caustic soda and lime, *Iranian Journal of Environmental Health Science & Engineering* 7 (3), 267, 2010.

2009

- A Mahvi, A Rajabizadeh, A Fatehizadeh, N Yousefi, H Hosseini, M Ahmadian, Survey wastewater treatment condition and effluent quality of Kerman province hospitals, *World Applied Sciences Journal* 7 (12), 1521-1525, 2009.

PROFFESIONAL SERVICES

Reviewer in the international journals

2014-Present Reviewer in the international journals (Water research, Desalination, Chemical Engineering Journal, African Journal of Environmental Science and Technology, Journal of Saudi Chemical Society, Health Scope, Journal of Molecular Liquids, International Journal of Environmental Health Engineering, Environmental Health Engineering and Management)

Organizing Workshops

2012 World environment Day, Isfahan University of Medical Sciences, Isfahan, IRAN
2013 Ozone day, Isfahan University of Medical Sciences, Isfahan, IRAN
2014 Clean air day, Isfahan University of Medical Sciences, Isfahan, IRAN
2014 Painting competition, Isfahan University of Medical Sciences, Isfahan, IRAN
2018 Clean Earth day May, Isfahan University of Medical Sciences, Isfahan, IRAN

TEACHING EXPERIENCE

YEAR	COURSE TITLE	MAJOR
2014	Wastewater collection and disposal	B.Sc
2015	Wastewater treatment plant design	M.Sc.
2017	Innovative wastewater treatment process	Ph.D

PROFESSIONAL/SCIENTIFIC ASSOCIATION MEMBERSHIP

2015- Present Member of Environmental Health Association of Iran.

WORKSHOP AND TRAINING

2017 Workshop on: "*Student Evaluation and Methods of Question Design with emphasis on Multiple Choice Questions*", Isfahan University of Medical Sciences - Education and Development Center- (EDC), 22-23 June, 2017, Isfahan, Iran.
2017 Workshop on: "*Education Planning, Teaching Method, and Student Evaluation*", Isfahan University of Medical Sciences - Education and Development Center- (EDC), 17-18 May, 2017, Isfahan, Iran.
2014 Workshop on: "Human exposure distribution to air quality pollution in Europe" Isfahan University of Medical Sciences - Alessandro Fasso - University of Bergamo, 17 April, 2014.