

MOHAMMAD RAFIEE



Contact Information

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Address: Department of Environmental Health Engineering, School of Public Health, Shahid Beheshti University of Medical Sciences, Tehran, IRAN. P.O. Box 1983535511.

Academic Rank

Assistant Professor

School

Public Health

Department of Environmental Health Engineering

CV last edited on: 2015/10/1

Education

1. PhD

Environmental Health Engineering, Tehran University of Medical Science , Tehran, Iran, 2012

2. MSc

Environmental Health Engineering, Tehran University of Medical Science , Tehran, Iran, 2005

3. BSc

Environmental Health, Shahid Beheshti University of Medical Sciences, Tehran, Iran, 2002

Language Skills

1. English

Speaking: Medium, Reading: Good, Writing: Medium

Experiences

Scientific Position

1. Assistant Professor

Department of Environmental Health Engineering, Shahid Beheshti University of Medical Sciences, 2014

2. Assistant Professor

Department of Environmental Health Engineering, Alborz University of Medical Sciences, 2012-2014

3. Chief Manager of Environmental Chemistry and Microbiology Laboratories

Department of Environmental Health Engineering, Alborz University of Medical Sciences, 2013-2014

4. Consultant

Petrochemical Research and Technology Co. 2007-2008

5. Lecturer

Department of Environmental Health Engineering, Tabriz University of Medical Sciences, 2010-2011

Course Teaching

1. B.Sc

Municipal and Industrial Wastewater Treatment - Physico-Chemical Processes of Water and Wastewater Treatment – Hydrology & Hydrogeology – Water Quality & Treatment – Environmental Modeling – Environmental Chemistry & Microbiology – Fluid Mechanics & Hydraulic

2. MSc

Soil Pollution

3. PhD

Air Pollution

4. MPH

Environmental Health

Short Courses / Workshops

WHO joint mission for water quality control lab for chemical & microbial component, Ministry of Health and Medical Education, 2015

Enzymes and their use in detergents, Standard Institute, 2014

Educational Symposium on proteomics and its place in medical research, Alborz University of Medical Sciences, 2014

Bioinformatics and primer designing, Alborz University of Medical Sciences, 2014

Systematic review and meta-analysis, Alborz University of Medical Sciences, 2014

Problem based learning (PBL), Alborz University of Medical Sciences, 2013

How to Publish a Scientific Journal article, TUMS-Springer, 2011

Workshop on Water & Wastewater for Environmental Health Engineers of Iranian National Petroleum Co. (*Lecturer*), 2010

Teaching strategies and methods, TUMS, 2009

Basics, Structure, Documentation & Auditing of Health, Safety, Environment Management System HSE-MS, Tehran-TÜV Academy, 2006

Papers

English

[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](#)

Authors: Abtahi M, Yaghmaeian K, Mohebbi MR, Koulivand A, Rafiee M, Jahangiri-rad M, Jorfi S, Saeedi R, Oktaie S
Ecological Indicators, Volume 60, 2016, Pages 367-376

[Household recycling knowledge, attitudes and practices towards solid waste management](#)

Authors: Babaei AA, Alavi N, Goudarzi G, Teymouri P, Ahmadi K, Rafiee M
Resources, Conservation and Recycling, Volume 102, 2015, Pages 94-100

[Artificial Neural Network Approaches to the Prediction of Eutrophication and Algal Blooms in Aras Dam, Iran](#)

Authors: Rafiee M, Jahangiri-rad M
Iranian Journal of Health Sciences, Vol.3 No.1 Year.2015 Pages 25-32

[A modified drinking water quality index \(DWQI\) for assessing drinking source water quality in rural communities of Khuzestan Province, Iran](#)

Authors: Abtahi M, Golchinpour N, Yaghmaeian K, Rafiee M, Jahangiri-rad M, Keyani A, Saeedi R
Ecological Indicators, Volume 53, 2015, Pages 283-291

[Community Perspectives on Air Pollution and its Related Health Risks: A Case Study of Tehran \(2012-2013\)](#)

Authors: Jahangiri-rad M, Mousavi M, Rafiee M
Iranian journal of health sciences, Vol.2 No.2 Year. 2014 Pages 69-75

[Separate and simultaneous removal of phenol, chromium, and cyanide from aqueous solution by coagulation/precipitation: Mechanisms and theory](#)

Authors: Golbaz S, Jonidi Jafari A, Rafiee M, Rezaei Kalantary R
Chemical Engineering Journal, Volume 253, 2014, Pages 251-257

[Detection and identification of Legionella species in hospital water supplies by Polymearse Chain Reaction \(16s rRNA\)](#)

Authors: Rafiee M, Mesdaghinia AR, Hajjara H, Jahangiri-rad M, Hajaghazadeh M
Journal of Environmental Health Science & Engineering 2014, 12:83

[The efficacy of residual chlorine content in hospital water systems in the control of Legionella spp.](#)

Authors: Rafiee M, Mesdaghinia AR, Hajjara H, Jahangiri-rad M, Hajaghazadeh M
Iranian J Publ Health, Vol. 43, No.5, 2014, Pages 637-644

[Counterion effects on nitrate adsorption from aqueous solution onto functionalized polyacrylonitrile coated with Iron oxide nanoparticles](#)

Authors: Jahangiri-rad M, Rafiee M
Research journal of Environmental Sciences, Vol. 8, No. 5, 2014, Pages 287-293

[Adsorption behavior of reactive blue 29 dye on modified nanoclay](#)

Authors: Rafiee M, Jahangiri-rad M
Trends in applied sciences research, Vol. 9, No. 6, 2014, Pages 303-311

[Adsorption of reactive blue 19 from aqueous solution by carbon nano tubes: equilibrium, thermodynamics and kinetic studies](#)

Authors: Rafiee M, Jahaniri-rad M
Research journal of Environmental Sciences, Vol. 8, No. 5, 2014, Pages 205-214

Evaluation of combined Fenton oxidation and precipitation process performance in Cyanide removal from aqueous solution

Authors: Jonidi Jafari A, Rafiee M, Rezaei Kalantary R, Golbaz s
Environmental engineering and management journal, In press

Sequential study on reactive blue 29 dye removal from aqueous solution by peroxy acid and single wall carbon nanotubes: experiment and theory

Authors: Jahangiri-rad M, Naddafi K, Nabizadeh R, Rafiee M
Journal of Environmental Health, Science and engineering, Vol. 10, No. 5, 2013

4-chlorophenol inhibition on flocculent and granular sequencing batch reactors treating synthetic industrial wastewater

Authors: Rafiee M, Mesdaghinia AR, Ghahremani MH, Nasseri S, Nabizadeh R
Desalination and water treatment, Vol. 49, No. 1-3, 2012, Pages 307-316

Purification and removal of Ascaris and Fasciola Hepatica eggs from water using roughing filters

Authors: Nouri,J., Mahvi,A.H., saeedi,R., Dindarloo,K., Rafiee,M., Dobaradaran,S
Korean. J. Chem. Eng, Vol. 25, No. 3, 2008, Pages 501-504

Control of Disinfection By-Products Formation Potential by Enhanced Coagulation

Authors: Mesdaghinia AR, Rafiee MT, Vaezi F, Mahvi AH, Torabian A, Ghasri A
International Journal of Environmental Science & Technology, Vol. 2, No. 4, 2005, Pages 335-342

Evaluation of Ferric Chloride and Alum Efficiencies in Enhanced Coagulation for TOC Removal and Related Residual Metal Concentrations

Authors: Mesdaghinia AR, Rafiee MT, Vaezi F, Mahvi AH
Iranian Journal of Environmental Health Science & Engineering (IJEHSE), Vol. 2, No. 3, 2005, Pages 189-194

Farsi

Using Coagulation Process in Optimizing Natural Organic Matter Removal from Low Turbidity Waters

Authors: Mesdaghinia A, Rafiee M, Mahvi AH, Vaezi F
Water and Wastewater, Vol. 57, 2006

TOC removal from drinking water

Authors: Mesdaghinia A, Rafiee M
Water & Environment, 2006

Abstracts and Presentation

English

Investigation of *Legionella* Species in Tehran's Hospital Water Supplies

8th ISERD international conference, Istanbul, Turkey, August 9, 2015 (Excellent paper)

The efficacy of residual chlorine content in hospital water systems in the control of *Legionella* spp.

5th International congress on environmental research, Malaysia, November 22-24, 2012 (Oral)

The efficacy of residual chlorine content in hospital water systems in the control of *Legionella* spp.

6th International Scientific Conference on Bioaerosols, Fungi, Bacteria, Mycotoxins in Indoor and Outdoor Environments and Human Health Saratoga Springs, New York, USA, September 6-9, 2011 (Poster)

Farsi

Monitoring of bio-augmented microbial strain in aerobic flocculent and granular sludge

First National Conference on Bioremediation, Sharif University, 2013 (Oral)

Aerobic granular sludge bio-augmentation to degrade 4-chlorophenol

16th National Conference on Environmental Health, Tabriz University of Medical Sciences, 2013 (Excellent paper)

Evaluation of the quality and quantity of solid waste produced at Tehran Oil Refinery

1st Conference and Exhibition of Environmental Engineering, Tehran University, 2006

Chitosan and its application in water and wastewater treatment

8th National Conference on Environmental Health, Tehran University of Medical Sciences, 2005

Global strategies on management and control of CO₂

Conference on air pollution and its effects on the environment, Environmental Protection Agency, 2005

Guidelines for acceptance of solid waste in sanitary landfill sites in developed countries

Second Regional Conference on Solid Waste Management, Kurdistan University of Medical Sciences, 2005

New guidelines on the landfill of municipal solid waste

Second Regional Conference on Solid Waste Management, Kurdistan University of Medical Sciences, 2005

Basic strategies in the management of construction debris after natural disasters

Second International Congress of Health and crisis management in disasters, Medical Community Basij & Baqiatallah University of Medical Sciences, 2004

Sick Building Syndrome and its relation to indoor air pollution

First Health and Family Festival, Iran University of Medical Sciences, 2004

Solid waste disposal using Plasma Gasification

Student Seminar on Health Sciences, Tehran University of Medical Sciences, 2004

Strategies to control and reduction of CO₂

Third National Student Congress of Health and Nutrition

Books

Solid Waste Microbiology

Translated by: Rafiee M, Gholampour A, Kimiaei-talab A
Andishe Rafi, 2010

Comprehensive Textbook of Environmental Health

Authors: Kargar M, Rafiee M
Andishe Rafi, 2006

Comprehensive Tests of Environmental Health

Authors: Rafiee M, Kargar M
Danesh Taban, 2000

Research projects & grants

Assessment of aerobic granular sludge response to a shock load of zinc oxide nanoparticles during biological wastewater treatment

Survey on surface water resources pollution with Giardia in Alborz province water treatment plants

Survey on the efficacy of micronutrients on the formation and stability of aerobic granular sludge

Study on the burden of diseases attributable to water supply and sewage disposal and analysis of social inequality in the I.R. Iran in the period of 1990-2010

Evaluation of potential and performance of sequencing batch reactor (SBR) with aerobic granular sludge in the treatment of industrial wastewater containing phenol with high-TD

Evaluation of aerobic granular sludge bioaugmentation for degradation of 4-chlorophenol and Benzyl alcohol

Performance evaluation of enhanced and conventional coagulation using alum and ferric chloride in the removal of THMs precursors

Skills

Microsoft office, Spss, Matlab

Memberships

1. Iranian Association of Environmental Health (IAEH)
2. Water and Soil Bioremediation Committee, ISTI. IR

Research Interests

1. Environmental Health
2. Bioremediation of Organics in Soil and Water