

## CURRICULUM VITAE

**Name:** *Hooshyar Hossini*

**Place of Birth:** Kermanshah, Iran

**Date of Birth:** July 11th 1984.

**Gender:** Male

**Marital Status:** Married

**Address:** Department of Environmental Health Engineering, Faculty of Health, Kermanshah University of Medical Sciences, Kermanshah, Iran

**Senior Lecturer, Associate Professor**, from 2020 to present

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**H-index**= 13 Scopus, 15 G-Scholar

**Executive editor** of International Journal of Health and Life Sciences

### Awards:

- 1- Best young researcher, Awarded by Kermanshah university of medical sciences, 2017
- 2- Best Ph.D thesis, Awarded by Tarbiat Modares university, 2015

### Patent:

Bioelectrochemical removal of nitrogen using carbon cloths and steel wool electrodes

### International and national exhibitions:

- 1- Expo Exhibition, Milan Italy 2014 (bioelectrochemical pilot)
- 2- Iranian Presidential Exhibition, 2014 (bioelectrochemical pilot)

### Research Interests:

- 1- Water and wastewater sciences
- 2- Electrochemical and Bioelectrochemical systems
- 3- Environmental microbiology
- 4- Solid waste management ( as supervisor)
- 5- Bioleaching and bioadsorption (as supervisor and advisor)
- 6- Microplastic pollution (at present, as supervisor)

## Peer-review:

Desalination and Water Treatment, Journal of Applied Polymer Science, Chemical Methodologies, Environmental Technology, Journal of Basic Microbiology, Journal of Engineering and Technological Sciences, Iranian Journal of Basic Medical Sciences, Environmental Science and Pollution Research, Journal of the Air & Waste Management Association, Water, Air, & Soil Pollution, Journal of Materials and Environmental Science, International Conference on Water Resource and Environment, International Conference on Energy engineering and Environmental Protection ...

## Education:

- ❖ Ph.D. in Environmental Health Engineering, 2015, Tarbiat Modares University, Tehran, Iran.
- ❖ MSc in Environmental Health Engineering, 2012, Tarbiat Modares University, Tehran, Iran.
- ❖ BSc in Environmental Health Engineering, 2009, Shahid Beheshti University of Medical Sciences, Tehran, Iran

## Publication list:

2021

1. P Makhdoumi, Milad Naghshbandi, Kamyar Ghaderzadeh, Mahsa Mirzabeigi, Hooshyar Hossini, Micro-plastic occurrence in bottled vinegar: Qualification, quantification and human risk exposure; [Process Safety and Environmental Protection](#), 2021
2. Edris Hosseinzadeh, Hatam Godini, *Hooshyar Hossini*, Water and wastewater as Potential sources of SARS-CoV-2 transmission: A systematic review, [Reviews on Environmental Health](#), 2021
3. Meghdad Pirsahab, Sara Zadsar, Seyed Omid Rastegar, Tingyue Gu, Hooshyar Hossini, Biobleaching and ecological toxicity assessment of carbide slag waste using *Acidithiobacillus* bacteria, [Environmental Technology & Innovation](#), 2021, [In press](#)

2020

1. Bahareh Karimi, Leila Ma'mani, Hazhir Karimi, *Hooshyar Hossini*, Ionic liquid modified magnetic nanoparticles-graphene hybrid (Fe<sub>3</sub>O<sub>4</sub>@GO-IL) for the removal of ibuprofen and penicillin G from aqueous solutions, [Desalination and Water Treatment](#), 2020
2. Poursan Makhdoumi, Abdulfattah Ahmad Amin, Hazhir Karimi, Meghdad Pirsahab, Hyunjung Kim, *Hooshyar Hossini*, Occurrence of microplastic particles in the most popular Iranian bottled mineral water brands and an

- assessment of human exposure, [Journal of Water Process Engineering](#), 2020, 101708
3. Edris Hoseinzadeh, Safoura Javan, Mahdi Farzadkia, Farshid Mohammadi, *Hooshyar Hossini*, Mahmoud Taghavi, An updated min-review on environmental route of the SARS-CoV-2 transmission. [Ecotoxicology and environmental safety](#), 111015
  4. Rouhullah Dehghani, Tahereh Khamechian, Azar Dehghani, Mojtaba Limoe, Mazdak Limoe, *Hooshyar Hossini*. Investigation of the Behavioral and Clinical Effects of Black Scorpion Venom in Albino Rats, [Iranian Journal of Toxicology](#). 2020, 14,3.
  5. M Abdi, M Balagabri, H Karimi, *H Hossini*, SO Rastegar, Degradation of crystal violet (CV) from aqueous solutions using ozone, peroxone, electroperoxone, and electrolysis processes: a comparison study. [Applied Water Science](#) 10 (7), 1-10.
  6. M Pirsahab, *H Hossini*, P Makhdoumi, Review of microplastic occurrence and toxicological effects in marine environment: Experimental evidence of inflammation, [Process Safety and Environmental Protection](#). 2020.
  7. H Karimi, BMA Herki, SQ Gardi, S Galali, *H Hossini*, K Mirzaei, M Pirsahab, Site selection and environmental risks assessment of medical solid waste landfill for the City of Kermanshah-Iran, [International Journal of Environmental Health Research](#). 2021.
  8. Meghdad Pirsahab, Hasan Mohamadisorkali, Hiwa Hossaini, *Hooshyar Hossini*, Pوران Makhdoumi, The hybrid system successfully to consisting of activated sludge and biofilter process from hospital wastewater: [Ecotoxicological study, Journal of Environmental Management](#). In press

2019

1. Saeb Ahmadi, Edris Hosseinzade, Ashkan Sami Vand, *Hooshyar Hossini*, Biological Methods for Nitrogen Removal: In book: Nitrogen Removal Processes for Wastewater Treatment, [Publisher: Bentham](#)
2. Edris Hosseinzade, Ashkan Sami Vand, *Hooshyar Hossini*, et al. Nitrogen Removal in Bio Electrochemical Systems In book: Nitrogen Removal Processes for Wastewater Treatment, [Publisher: Bentham](#)
3. P Makhdoumi, *Hooshyar Hossini*, GM Ashraf, M Limoe, Molecular Mechanism of Aniline Induced Spleen Toxicity and Neuron Toxicity in Experimental Rat Exposure: A Review ; [Current neuropharmacology](#). 2019, 17 (3), 201-21.
4. S Rezaei, *Hooshyar Hossini*, M Hashemi, Removal of Ortho-chlorophenol from Aqueous Solutions Using Zero-Valent Iron Nanoparticles Modified Clay (Case Clay Soils of ShahMorad Mountains in Rafsanjan) [Iranian Journal of Health, Safety and Environment](#) 2019, 5 (4), 1091-1098.
5. M Pirsahab, M Nouri, Hazhir Karimi, Yaseen T Mustafa, *Hooshyar Hossini*, A Systematic Review of the Residue Organophosphorus Pesticides in the Global Soil. [IOP Conference Series: Materials Science and Engineering](#), In press
6. Hadis Fattahi, Hazhir Karimi, Samira Amiri, Shohreh Heshmati, Fateme *Hooshyar Hossini*, *Hooshyar Hossini*, Yaseen T Mustafa, Decolorization of Crystal Violet from Aqueous Solution Using Electrofenton Process, [IOP Conference Series: Materials Science and Engineering](#), In press

2018

1. M Pirsaeheb, S Mohamadi, S Rahmatabadi, *Hooshyar Hossini*, F Motteran, Simultaneous wastewater treatment and biogas production using integrated anaerobic baffled reactor granular activated carbon (IABRGAC) from Baker yeast wastewater. [Environmental Technology](#), 2018, 39 (21), 2724-2735
2. N Mirzaei, AH Mahvi, *Hooshyar Hossini*, Equilibrium and kinetics studies of Direct blue 71 adsorption from aqueous solutions using modified zeolite, [Adsorption Science & Technology](#), 2018, 36 (1-2), 80-94.

2017

1. *Hooshyar Hossini*, RDC Soltani, M Safari, A Maleki, R Rezaee, R Ghanbari The Application of Natural Chitosan/Bone Char Composite in Adsorbing Textile Dye From Water. [Chemical Engineering Communications](#). 2017, 204 (9), 1082-1093.
2. S Ahmadi, M Vafaie Sefti, MM Shadman, Z Azimi Dijvejin, *Hooshyar Hossini*, The optimization of Cu and Fe bioleaching from converter slag using *Acidithiobacillus ferrooxidans*. [Journal of Advances in Environmental Health Research](#), 2017. 5 (3), 154-162.
3. M Pirsaeheb, B Shahmoradi, M Beikmohammadi, E Azizi, *Hooshyar Hossini...* , Photocatalytic degradation of Aniline from aqueous solutions under sunlight illumination using immobilized Cr: ZnO nanoparticles, [Scientific Reports](#) 2017, 7 (1), 1473.
4. M Pirsaeheb, *Hooshyar Hossini*, F Asadi, H Janjany, A systematic review on organochlorine and organophosphorus pesticides content in water resources, [Toxin Reviews](#), 2017, 36 (3), 210-221.
5. R Khosravi, *Hooshyar Hossini*, M Heidari, M Fazlzadeh, H Biglari, Electrochemical Decolorization of Reactive Dye from Synthetic Wastewater by Mono-Polar Aluminum Electrodes System, [Int. J. Electrochem. Sci](#) 2017, 12, 4745-4755.
6. Meghdad Pirsaeheb, *Hooshyar Hossini*, Marius Sebastia Secula et al. Application of high rate integrated anaerobic-aerobic/biogrannular activated carbon sequencing batch reactor (IANa-BioGAC/SBR) for treating strong municipal landfill leachate, [Scientific Reports](#) · April 2017. 7 (1), 3109.
7. M Pirsaeheb, Yahya Jabari, *Hooshyar Hossini*, K Sharafi, S Mohamadi, evaluation of heavy metals (chromium, nickel and lead) in topsoil of the residential and industrial area of kermanshah, iran, [iioab journal](#) 7, 410-415.
3. M Pirsaeheb, *Hooshyar Hossini*, K Sharafi, S Mohamadi, post-treatment of baker's yeast wastewater by combination of two stage sequencing batch reactor (SBR) and intermediate O3/GAC, [IIOAB journal](#) 7, 416-427.
4. Edris Hoseinzadeh, *Hooshyar Hossini*, et al. A Review on Nano-Antimicrobials: Metal Nanoparticles, Methods, and Mechanisms, [Current Drug Metabolism](#), 2017, 18 (2), 120-128.
5. *Hooshyar Hossini*, Meghdad Pirsaeheb, Hiwa Hossaini, Mojtaba Limoe, A Letter: Zika Virus (ZIKV) and Wastewater Treatment Plants, [Health Scope](#), in press.
6. Edris Hoseinzadeh, *Hooshyar Hossini*, Metallic nano Antimicrobials (Synthesis, toxicology and microorganisms), Publisher: [LAP LAMBERT Academic Publishing](#) ISBN: 978-620-2-09313-2.

7. Edris Hoseinzadeh, *Hooshyar Hossini*, et al. A review of available techniques for determination of nano-antimicrobials activity. [Toxin Reviews](#) 2017, 36 (1), 18-32

2016

1. *Hooshyar Hossini*, Abbas Rezaee. Bitayati, Amirhossein Mahvi, Optimizing ammonia volatilization by air stripping from aquatic solutions using response surface methodology (RSM) [Desalination and Water Treatment](#) (2016) 1-8.
2. *Hooshyar Hossini*, H. Esmaeili Taheri, A. Arab Markadeh, A. Rezaee, S.O. Rastegar, Optimization of effective parameters in the biosorption of Cr(VI) using acid treated date palm fiber from aqueous solution, [Desalination and Water Treatment](#), (2016) 1-10.
3. *Hooshyar Hossini*, Abbas Rezaee. Bitayati, Amirhossein Mahvi, Off-Gas Treatment of Ammonia Using a Diffused Air Stripper: A Kinetic Study, [Health Scope](#). 2016 February; 5(1): e26479.
4. R. Ahmadi, A. Rezaee, M. Anvari, *Hooshyar Hossini*, S.O. Rastegar, Optimization of Cr(VI) removal by sulfate-reducing bacteria using response surface methodology, [Desalination and Water Treatment](#), (2016) 1-7.
5. Abbas Rezaee, Golamhossin Pourtagi, *Hooshyar Hossini*, Mahshid Loloji, Microbial cellulose as a support for photocatalytic oxidation of toluene using TiO<sub>2</sub> nanoparticles, [J. Appl. Polym. Sci.](#) 2016, Doi: 10.1002/App.43051.
6. Edris Hoseinzadeh, Abbas Rezaee, *Hooshyar Hossini*, Biological Nitrogen Removal in Moving Bed Biofilm Reactor Using Ibuprofen as Carbon Source. [Water Air Soil Pollution](#), (2016) 227:46.
7. *Hooshyar Hossini*, Poursan Makhdoomi, Fazel Mohammadi Moghadam, Nezam Mirzaei, A review of Toxicological/Environmental/Health effects of chromium from aqueous medium: available removal techniques, [Acta Medica Meditranea](#), 2016, in press.
8. Hossini H, Makhdoomi P. Bioindicators for environmental determination. [Hozan journal of Environmental Sciences](#). 2016;1(1):1-17.
9. Saeb Ahmadi, Seyed Omid Rastegar, *Hooshyar Hossini*, Nezam Mirzaei Removal of Hexavalent Chromium from Aqueous Solution Using Polyaniline: Modeling and Optimization, [International Journal of Pharmacy and Technology](#), 2016. 8 (3).
10. S Ahmadi, M Shadman, *Hooshyar Hossini*, S Hashemi, Catechol removal using MWCNTs from synthetic solutions: modeling, equilibrium and kinetics, [Journal of Materials and Environmental Science](#) 2017, 7, 3885-3894

2015

1. *Hooshyar Hossini*, Abbas Rezaee. Bitayati, Amirhossein Mahvi, Simultaneous nitrification and denitrification using a polypyrrole/microbial cellulose electrode in a membraneless bio-electrochemical system, [RSC Adv.](#), 2015, 5, 72699.
2. *Hooshyar Hossini*, Abbas Rezaee. Bitayati, Amirhossein Mahvi, Optimization of temperature and supporting electrolyte for ammonium removal using bioelectrochemical systems, [J Adv Environ Health Res](#), 2015; 3(1): 62-70.
3. Hossini H, Rezaee A, Barati-Roshvanlo R. Application of response surface methodology for optimization of ammonia removal in integrated fixed-film activated sludge. [J Adv Environ Health Res](#) 2015; 3(2): 130-8.

4. *Hooshyar Hossini*, Pouran Makhdoumi, Seyed Omid Rastegar, Fazel Mohammadi Moghadam, Hamid Reza Ghaffari, Allahbakhsh Javid, Nezam Mirzaei, Optimization of the electrocoagulation process for sulfate removal using response surface methodology, [Bulgarian Chemical Communications](#), 47, (pp. 63 – 71) 2015.
5. *Hooshyar Hossini*, Mahdi Safari, Reza Darvishi Cheshmeh Soltani, Reza Rezaee, Omid Giahi, Yahya Zandsalimi, Application of Experimental design approach for optimization of the removal of Humic substances from aqueous solution using immobilized ZnO, [J Adv Environ Health Res](#) 2015; 3(3).
6. Saeed Parastar and *Hooshyar Hossini*, Assessment of National Sanitation Foundation Water Quality Index and Other Quality Characterization of Mamloo Dam and Supporting Streams, [International Journal of Environmental Health Engineering](#) 2015;4:44.
7. Reza Barati Roshvanlo, Abass Rezaee, *Hooshyar Hossini*, Removal of Ammonium from Synthetic Wastewater using Integrated Fixed Film Activated Sludge (IFAS) include Powder Activated Carbon. [Archives of Hygiene Sciences](#), 2015.
8. Shima Rezaei, Afshin Maleki, Meghdad Pirsahab, *Hooshyar Hossini*, Simultaneous degradation and adsorption of Cyanide using modified fly ash (MFA) and TiO<sub>2</sub>/UV, , [J Adv Environ Health Res](#) 2015, 3(4).

2014

1. *Hooshyar Hossini*, Abbas Rezaee , Seyed Omid Rastegar, Seyedenayat Hashemi, Mahdi Safari, *Equilibrium and kinetic studies of chromium adsorption from wastewater by functionalized multi-wall carbon nanotube*, [Reaction Kinetics, Mechanisms and Catalysis](#), 1-12.
2. Reza Barati Roshvanlo, Abass Rezaee, *Hooshyar Hossini*, ,Mohamad Shiri, *Ammonium removal by nitrification and denitrification in an integrated fixed film activated sludge (IFAS) process*, [Health Scope](#). 05/2014.
3. *Hooshyar Hossini*, Abbas Rezaee, *Optimization of Nitrate Reduction by Electrocoagulation Using Response Surface Methodology*, [Health Scope](#). 08/2014; 3(3):e17795.
4. *Hooshyar Hossini*, Abbas Rezaee, Syedenayat Hashemi. Electrochemical removal of hexavalent chromium from wastewater using Platinum-Iron/Iron-carbon nanotubes bipolar Electrodes, [SMJ](#). 02/2014; *Article In Persian*
5. Reza Barati Roshvanlo, Abass Rezaee, *Hooshyar Hossini*, Application Feasibility of modified integrated fixed film activated sludge for ammonium elimination from wastewater, [Sabzevar Medical Science Journal](#), *Article In Persian*
6. A Rezaee, H Masoumbeigi, *Hooshyar Hossini*, *Water disinfection by Zinc oxide nanoparticle prepared with solution combustion method*, [Desalination and Water Treatment](#), 8/2014.
7. *Hooshyar Hossini*, Abbas Rezaee, Mohammad Shirmardi, Abolfazl Naeimabadi, Sulfate removal from wastewater using electrocoagulation process: evaluation of effective parameters and costs, [North Khorasan Sabzevar Medical Science Journal](#), *Article In Persian*.
8. *Hooshyar Hossini*, Abbas Rezaee, Gholamreza Mohamadian, *Hexavalent chromium removal from aqueous solution using functionalized multi-walled carbon nanotube (f-MWCNTs): optimization of parameters by Response Surface Methodology (RSM)* , [Health Scope](#). 07/2014.

9. Rezaee, Abbas, Mahdi Safari, and Hooshyar Hossini. "Bioelectrochemical denitrification using carbon felt/multi wall carbon nanotube." [Environmental technology](#) (2014): 1-18.
10. Abbas Rezaee, Hooshyar Hossini, Hossin Masoumbaigi, Reza Darvishi Cheshmeh Soltani, Electrochemical removal of Cr (VI) from aqueous solution using bipolar electrodes system Al/Al-Al/Al - [Iranian journal of water and wastewater- Article In Persian](#)

2013

1. R Khosravi, M Fazlzadehdavil, B Barikbin, Hooshyar Hossini, *Electro-decolorization of Reactive Red 198 from aqueous solutions using aluminum electrodes systems: modeling and optimization of operating parameters*, [Desalination and Water Treatment](#), 1-9.
2. Hooshyar Hossini, A Rezaee, H Masoumbeigi, *Optimization of Chromium reduction and Sludge production by bipolar Electrocoagulation using Response Surface Methodology*, [Journal of Health Policy and Sustainable Health](#) 1 (1).
3. Hooshyar Hossini, A Rezaee, S Rastegar, *Statistical screening of hexavalent chromium biosorption by Sargassum*, [Iranian Journal of Health, Safety and Environment](#) 1 (1), 36-42.
4. A Rezaee, N Naimi, SE Hashemi, Hooshyar Hossini, RDC Soltani, *Molecular identification of nitrifying bacteria in activated sludge*, [Journal of Materials and Environmental Science](#). 05/2013; 4(5):601-604.

2012

1. Abbas Rezaee, Hooshyar Hossini, *Denitrification of high salinity, high nitrate wastewater using clinoptilolite in a packed bed bioreactor-* [E3 Journal of Environmental Research and Management](#). 3(2) (2012) 31-36.
2. R. Nabizadeh, A. Jalilzadeh, A. Mesdaghinia, S. Nasser, A. H. Mahvi, K. Naddafi, Hooshyar Hossini and H. Azimi, *Biological Behavior of Anammox Process For Municipal Wastewater Treatment: Effect of Ammonia Removal and Other Parameters*, [Pak. J. Chem.](#) 2(3):1-6, 2012

2011

1. Hatam Godini, Abbas Rezaee, Ali Khavanin, Afshin Nili Ahmadabadi, Sayedomid Rastegar, Hooshyar Hossini: *Heterotrophic Biological Denitrification Using Microbial Cellulose as Carbon Source*, [J Polym Environ](#) (2011) 19:283-287.
2. Abbas Rezaee, Hooshyar Hossini, Hossein Masoumbeigi, Reza Darvish-Cheshmasoltani, Seyed Omid Rastegar, *Simultaneous removal of hexavalent chromium and nitrate from wastewater using electrocoagulation method*. [International Journal of Environmental Science and Development \(IJESD\)](#), 2 (2011) 294-298