

HOOSHYAR HOSSINI

Department of Environmental Health Engineering

Faculty of Health, Kermanshah University of Medical Sciences

Postal code: 6719851351, School of Public Health, Isar Sq., across from Farabi Hospital,
Kermanshah, Iran

Email: h.hosseini@kums.ac.ir , hoo.hosseini@gmail.com

<https://hygiene-school.kums.ac.ir/fa/education/didacticcouncil/informationbank>

ORCID: [0000-0002-4049-9235](https://orcid.org/0000-0002-4049-9235)

EDUCATION

Environmental Health Engineering	Tarbiat Modares University	PhD 2015
Environmental Health Engineering	Tarbiat Modares University	MS 2012
Environmental Health Engineering	Shahid Beheshti University of Medical Sciences	BS 2009

PROFESSIONAL EXPERIENCE

2016-present Head of Health School laboratories, KUMS
2021-present Head of Kermanshah University Journals office, KUMS
2020-present Associate Professor of Environmental Health Engineering Kermanshah University of Medical Sciences, Kermanshah, Iran
2015-2020 Assistant Professor of Environmental Health Engineering Kermanshah University of Medical Sciences, Kermanshah, Iran
2016-2019 Head of Students Research Committee, Health School, KUMS

RESEARCH INTERESTS

- Water and wastewater, Conventional and emerging pollutants, nitrogenous compound, heavy metals, pathogens, organic matters
- Soil pollution, pollution and contamination, biological risk assessment
- Life cycle assessment, solid waste management
- Chemical leaching and bioleaching, metal recovery and waste control
- Environmental microbiology, in vitro and in vivo studies pure culture and reactor based technique
- Microplastic pollution, occurrence and entrance into environment and food chain
- Environmental toxicology, algae, plant, and animal exposure
- Biological and human Risk assessment
- Bioelectrochemical systems (MEC, MFC), Electrocoagulation, advanced oxidation treatment (AOP, Peroxone, UV/H₂O₂, ...)

EXTERNAL PROFESSIONAL ACTIVITIES

2015-present Executive editor, Journal of Health reports and Technology
2016-present editorial board, Hozan Journal (in Persian)
2021-present editorial board, Journal of Civil Engineering Frontiers

THESES

PhD. Elimination of Ammonium Nitrogen from synthetic Wastewater using microbial cellulose- bioelectrode in Bioelectrochemical systems
MS. Electrochemical removal of hexavalent chromium from Industrial wastewater using Platinum (Anode) and carbon nanotubes (Cathode) Electrodes

ADVISORY COMMITTEES AND LEADERSHIP

Member, Iranian Association of Environmental Health (IAEH) (2019-present)
Member, TMU International Campus (2020-present)
Conference scientific committee, Budapest, Hungary (2022)
Conference scientific committee, 2nd International Conference on Science, Engineering, and Advanced Technology (ICSEAT-2023)
Conference scientific committee, Mashhad, Iran (2017)

PEER-REVIEW

Environmental international, Cleaner Waste Systems, Journal of Food Composition and Analysis, Risk Management and Healthcare Policy, Science of total environment, Water, 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 ...

<https://www.webofscience.com/wos/op/peer-reviews/summary>

TEACHING

- Environmental microbiology, graduated and undergraduate students
- Water and wastewater treatment, undergraduate students
- Environmental biotechnology, undergraduate students
- Solid waste management, graduated and undergraduate students

EXPERICNCE

DOE, PRISME, CMA, Simapro, Superpro designer, Water and wastewater experiments, general water and wastewater microbiology tests MTFs, HPC, Gram staining, PCR, dehydrogenase etc., Solid waste laboratory tests, density, organic matter contents, toxicity tests, etc. Analysis and interpretation of tests include HPLC, SEM-EDX, FTIR, XRD, XRF, AFM, BET, etc.

HONORS AND AWARDS

5 rank, in the national master's exam in the field of environmental health engineering, 2010
3 rank, in the national PhD's exam in the field of environmental health engineering, 2012
Best young researcher, Awarded by Kermanshah university of medical sciences, 2017
Best Ph.D thesis, Awarded by Tarbiat Modares university, 2015

PATENT

Bioelectrochemical removal of nitrogen using carbon cloths and steel wool electrodes

BOOKS:

- General environmental health, 2012, IN PERSIAN
- Sanitation of the ship environment, 2022, IN PERSIAN
- Environmental microbiology (translated book), 2022, IN PERSIAN
- 5 chapter books in Springer, Elsevier and Bentham Publishers

SELECTED ATTENDED CONFERENCES:

- Removal of Acid Red18 Dye from Aqueous Solution by Single Wall Carbon Nanotubes (SWCNTS), 4th International Color and Coatings Congress (ICCC 2011) November 22-24, Tehran, Iran
- Kinetics and Equilibrium Studies on Adsorption of Acid Red 18 (azo-dye) using multiwall Carbon nanotubes (MWCNTs) from aqueous solution, 4th International Color and Coatings Congress (ICCC 2011) November 22-24, Tehran, Iran
- Simulations removal of COD and ammonia from carbonated soft drink industries wastewater using a sequencing batch reactor (SBR), European 2017 Conference on Materials, Mechatronics and Manufacturing, French.
- Modeling and Optimization of the Nitrogen and Phosphorus removal from Wastewater by Intermittent Cycling Aerobic-Anaerobic Bioreactor with Granular Activated Carbon Bed (ICAAGAC), European 2017 Conference on Materials, Mechatronics and Manufacturing, French.
- Investigating the contamination of microplastic particles in the blood, tissue, and human excrement. International Conference on Sustainable Cities and Urban Landscapes, which will be held at Selcuk University on 26-27 October 2022
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AWARDED RESEARCH PLAN

- Investigation the presence of SARS-CoV-2 on released microplastics into Farabi Hospital wastewater treatment plant and Qarasu River in Kermanshah, 2021
- Comparative investigation of microplastic removal efficiency in Stabilization Pond, Activated Sludge and Constructed Wetland systems in Islamabad-e-Garb, Sarpol-e-Zahab and Qasr-e-Shirin wastewater treatment plants, 2023
- Frequency and occurrence of micro plastics in compost produced in the kermanshah , iran
- Study on the presence of bacterial pathogens, economic poisons, and heavy metals on released microplastics into Qara-Sou River, Kermanshah, Iran 2021
- Investigation of the frequency and presence of protozoans (stalked ciliates) on microplastics released into Qara-Sou River, Kermanshah, Iran 2021
- Investigation of the frequency and presence of microplastics in the distributed vinegars in Kermanshah, Iran, 2020

- Evaluation of the amount, type and shape of microplastics in available herbal distillates of Kermanshah, 2021
- Assessment of microplastics in fish and its toxicity evaluation on rat: study area, Kermanshah Ghareso River, 2022
- Evaluation of the microplastics rate, amount and shape of in animal feed concentrate, poultry and fish supplied in Kermanshah in 2020
- Investigation of the amount and type microplastic contamination in fishes Qara-Sou River: from Ravansar headwaters to Gamasiab river, in the 2019.
- Frequency and occurrence of microplastics in popular brands of bottled mineral water distributed in Kermanshah, Iran
- Investigation the number, size and diversity of microplastics contents in water and sediment of Qara- Souh River from Ravansar springhead to Gamasiab, 2019
- Investigating the annual intake of microplastics by a Kermanshahian from foods and water, 2023
- Investigating the amount of microplastics, bisphenol A and phthalate, in the popular biscuit brands in Iran, and related risk assessment, 2023
- Investigation of type and rate of PAHs on the microplastics released into Qara-Sou River and their risk assessment, Kermanshah, Iran 2022,
- The study of bioelectrochemical denitrification efficiency with presence double toxicity by arsenic and azo dyes in nitrate removal from aqueous solutions, 2016
- New alumina based nano structure, synthesis and application for water and wastewater treatment, 2017
- The survey and comparison of phenton and photo – persolphate efficiency on cephalixin removal from aqueous solutions, 2017
- Investigation of nitrate removal from aqueous solutions using N-TiO₂/Al₂O₃/chitosan nanocomposites, 2017
- Removal Considering of Heavy metals from Kermanshah municipal compost using Bioleaching by AcidithiobacillusThiooxidans and Ferrooxidans strain, 2018
- Bioleaching of Lithium, zinc and copper metals from calcium carbide waste using Aspergillus Niger and Fumigatus, 2019
- The survey of One-step bioleaching process efficiency to recovery of zinc, copper, barium, nickel and lithium metals from calcium carbide Waste using acidthio bacillusthiooxidans and acidithiobacillus ferrooxidans bacteria, 2019
- ...

JOURNAL PUBLICATIONS LIST:

2023

1. P Makhdoumi, M Pirsahab, AA Amin, S Kianpour, **H Hossini**, Microplastic pollution in table salt and sugar: Occurrence, qualification and quantification and risk assessment, [Journal of Food Composition and Analysis](#) 119, 105261

2022

2. M Pirsahab, S Zadsar, **H Hossini**, SO Rastegar, H Kim, Bioleaching of carbide waste using spent culture of Acidithiobacillus bacteria: Effective factor evaluation and ecological risk assessment, [Environmental Technology & Innovation](#) 2022, 28, 102801

3. [H Hossini](#) et al. A comprehensive review on human health effects of chromium: insights on induced toxicity, [Environmental Science and Pollution Research](#) 2022 DOI : 10.1007/s11356-022-22705-6
4. M Pirsaeheb, M Nouri, [H Hossini](#), Advanced oxidation processes for the removal of phthalate esters (PAEs) in aqueous matrices: a review, [Reviews on environmental health](#), 2022
5. P Makhdoumi, [H Hossini](#), M Pirsaeheb, A review of microplastic pollution in commercial fish for human consumption [Reviews on environmental health](#), 2022
6. H Karimi, [H Hossini](#), AA Amin, Municipal landfill site selection and environmental impacts assessment using spatial multicriteria decision analysis: A case study, [Computers in Earth and Environmental Sciences](#), 235-244
7. M Pirsaeheb, H Hossaini, NK Raad, S Kianpour, [H Hossini](#), A systematic review on photo-Fenton process as an efficient advanced oxidation for degradation of amoxicillin in aqueous environments, [Reviews on environmental health](#), 2022
8. E Hoseinzadeh, A Ramezani, F Mohammadi, M Safari, AA Soka-Adega, [Hooshyar Hossini](#), Evaluating the Level of Lighting Satisfaction and Determining Degrees of Visual Fatigue, Mental Task Load, Sleepiness, and Sleep Quality in Students [Journal of Health Reports and Technology](#), 2022
9. Hiwa Hossaini, M Pirsaeheb, [H Hossini](#), Fatemeh Asadi, Improving the purification of aqueous solutions by controlling the production of reactive oxygen species in non-thermal plasma; a systematic review [Reviews on environmental health](#), 2022
10. [H Hossini](#), H Karimi, Yaseen T. Mustafa, Ayad M. Fadhil Al-Quraishi , Role of Effective Factors on Soil Erosion and Land Degradation: A Review; [Chapter book](#). In Environmental Degradation in Asia Land Degradation, Environmental Contamination, and Human ActivitiesPublisher: Springer Nature, Switzerland
11. H Karimi, [H Hossini](#), Yaseen T. Mustafa, Ayad M. Fadhil Al-Quraishi , Assessment of Land Degradation Vulnerability Using GIS-Based Multicriteria Decision Analysis in Zakho District, Kurdistan Region of Iraq; [Chapter book](#). In Environmental Degradation in Asia Land Degradation, Environmental Contamination, and Human ActivitiesPublisher: Springer Nature, Switzerland
12. M Pirsaeheb, [H Hossini](#), N Moradi, Sonochemical processes for antibiotics removal from water and wastewater: A systematic review; [Chemical Engineering Research and Design](#), 2022

2021

1. 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
2. P Makhdoumi, [H Hossini](#), Z Nazmara, K Mansouri, M Pirsaeheb, Occurrence and exposure analysis of microplastic in the gut and muscle tissue of riverine fish in Kermanshah province of Iran, [Marine Pollution Bulletin](#), 2021 173, 112915
3. S Heshmati, P Makhdoumi, M Pirsaeheb, [H Hossini](#), S Ahmadi, H Fattahi, Occurrence and characterization of microplastic content in the digestive system of riverine fishes, [Journal of Environmental Management](#) 299, 113620
4. P Makhdoumi, M Naghshbandi, K Ghaderzadeh, M Mirzabeigi, [H Hossini](#), Microplastic occurrence in bottled vinegar: Qualification, quantification and human risk exposure, [Process Safety and Environmental Protection](#) 152, 404-413

5. **H Hossini**, S Atashkar, T Massahi, Face mask consumption and medical waste generation during the COVID-19 pandemic in Iran: Challenges and problems, [International Journal of Health and Life Sciences](#) 7 (3) 2021
6. P Makhdoumi, **H Hossini**, R Mohammadi, M Limoe, The prevalence of aflatoxin M1 (AFM1) in conventional and industrial dairy products (yogurt, cheese, kashk and dough) of Iran: a systematic review and meta-analysis [Reviews on Environmental Health](#), 2021
7. P Makhdoumi, P Akbari, N Mirzaei, **H Hossini**, E Hoseinzadeh, Systematic review and metal analysis on three important fungal group (dermatophytes, yeasts and saprophytes) isolated from Iranian swimming pools, [Journal of Environmental Health Science and Engineering](#), 1-9
8. M Pirsahab, S Zadsar, SO Rastegar, T Gu, **H Hossini**, Bioleaching and ecological toxicity assessment of carbide slag waste using Acidithiobacillus bacteria, [Environmental Technology & Innovation](#) 22, 101480

2020

1. Bahareh Karimi, Leila Ma'mani, Hazhir Karimi, **Hooshyar Hossini**, Ionic liquid modified magnetic nanoparticles-graphene hybrid (Fe₃O₄@GO-IL), [Desalination and Water Treatment](#), 2020
2. for the removal of ibuprofen and penicillin G from aqueous solutions
3. Pouran 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
4. 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
5. 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.
6. 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.
7. 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.
8. 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](#). 2020
9. Meghdad Pirsahab, Hasan Mohamadisorkali, Hiwa Hossaini, **Hooshyar Hossini**, Pouran Makhdoumi, The hybrid system successfully to consisting of activated sludge and biofilter process from hospital wastewater: [Ecotoxicological study, Journal of Environmental Management](#). 2020

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 Pirsaeheb, 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/biogranular activated carbon sequencing batch reactor (IANa-BioGACsBR) 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, [ioab 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, [IOAB 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 Loloi, Microbial cellulose as a support for photocatalytic oxidation of toluene using TiO₂ 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](#), Pouran 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](#), Pourn Makhdoomi, 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 Giah, 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, Abbas 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 Pirsaeheb, [Hooshyar Hossini](#), Simultaneous degradation and adsorption of Cyanide using modified fly ash (MFA) and TiO₂/UV, [J Adv Environ Health Res](#) 2015, 3(4).

2014

1. [Hooshyar Hossini](#), Abbas Rezaee, Seyed Omid Rastegar, Seyedanayat 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, Abbas 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 nano-particle 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.
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