

# Curriculum Vita

## Akbar Eslami



**Current Academic position** Professor of Environmental Health Engineering

**International Researcher ID:** J-1191-2017

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### Personal details

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Date of Birth: 23 Sep. 1974

### Educational Background

- PhD** Environmental Health, Department of Environmental Health Engineering, School of Public Health, Tehran University of Medical Sciences, **2007**.  
**Dissertation:** Survey on The Potential of Photocatalytic Processes for Degradation of MTBE in Contaminated Waters
- MSc** Environmental Health Engineering, Department of Environmental Health Engineering, School of Public Health, Tehran University of Medical Sciences, **2000**.  
**Thesis:** Study on Iron and Manganese Removal Efficiency from Groundwater Resources by Aeration-Filtration
- BSc** Environmental Health, Department of Environmental Health Engineering, School of Public Health, Shahid Beheshti University of Medical Sciences, **1998**.

### Major Professional Experiences

#### Research Experience

Water Quality Assessment  
Advanced Water and Wastewater Treatment Methods  
Municipal, Industrial and Health Care Waste Management  
Environmental Radiation Monitoring

## Teaching Experience

Environmental Chemistry  
Environmental Microbiology  
Environmental Toxicology  
Environmental Behavior of Pollutants  
Environmental Biotechnology  
Water Quality and Treatment  
Industrial and Municipal Wastewater Treatment  
Advanced Instrumental Analysis for Environmental Pollutants  
Environmental Epidemiology  
Environmental Radiation

## Research Interests

Wastewater: Treatability of Industrial Wastewater Treatment, Environmental Biotechnology, Municipal Wastewater Reuse  
Water: Water Quality Assessment, Advanced Treatment Methods  
Waste: Industrial Waste Disposal, Vermicomposting  
Radiation: Environmental Radioactive Releases Monitoring, Background Monitoring

## Peer-Reviewed Papers

### A) Papers published in English language

124 . Nasim Naeji, Mohammad Rafieea, Hamed Azizi, Marjan Hashemi, **Akbar Eslami** "*Data on the microplastics contamination in water and sediments along the Haraz River estuary, Iran*", **Data in Brief**, (32) 106155, 2020.

11. Mansour Sarafraz, Mostafa M Amini, Moayed Adiban, **Akbar Eslami** "*Facile synthesis of mesoporous black N-TiO<sub>2</sub> photocatalyst for efficient charge separation and the visible-driven photocatalytic mechanism of ibuprofen degradation*", **Materials Science in Semiconductor Processing**, 120 (105258), 2020.

9. Mahsa Moradi, **Akbar Eslami** "*Reductive/oxidative degradation of tetrachloroethene and its transformation products using combination of permeable ZVI column and UV/Fe/peroxydisulfate system: RSM design and synergy effect study*", **Journal of Water Process Engineering**, 36 (101288), 2020.

7. Fatemeh Shokri Dariyan, **Akbar Eslami**, Ehsan Aghayani, Mojtaba Pourakbar, Ali Oghazyan "*Comparison of artificial neural network and multi-kinetic models to predict optimum retention time for dairy wastewater treatment in the integrated fixed-film activated sludge*", **International Journal of Environmental Analytical Chemistry**, 2020.

5. Anoushiravan Mohseni Bandpi, **Akbar Eslami**, Mansour Ghaderpoori, Abbas Shahsavani, Ali Akbar Mohammadi, Maryam Morovati, Yousef Gholampoor, Ali Khani Jeihooni, Afshin Ghaderpoury, Iman Parseh, Abdolazim Alinejad, Shahram Sadeghi "*Characteristics and sources of water-soluble ionic associated with PM<sub>2.5</sub> particles and cytotoxicity effects using MTT assay in Tehran, Iran*", **Urban Climate**, 32 (100612), 2020.

3. Fatemeh Amereh, Mohammad Babaei, **Akbar Eslami**, Simin Fazelpour, Mohammad Rafiee "The emerging risk of exposure to nano (micro) plastics on endocrine disturbance and reproductive toxicity: From a hypothetical scenario to a global public health challenge" **Environmental Pollution**, 261 (114158), 2020.

1. **Akbar Eslami**, Mostafa M Amini, Anvar Asadi, Ali Asghar Safari, Nebile Daglioglu "Photocatalytic degradation of ibuprofen and naproxen in water over NS-TiO<sub>2</sub> coating on polycarbonate: Process modeling and intermediates identification", **Inorganic Chemistry Communications**, 115 (107888), 2020.

-1. Anoushiravan Mohseni-Bandpei, **Akbar Eslami**, Hossein Kazemian, Mansur Zarrabi, Tariq J Al-Musawi "A high density 3-aminopropyltriethoxysilane grafted pumice-derived silica aerogel as an efficient adsorbent for ibuprofen: Characterization and optimization of the adsorption data using response surface methodology", **Environmental Technology & Innovation**, 18 (100642), 2020.

-3. Mansour Sarafraz, Morteza Sadeghi, Ahmadreza Yazdanbakhsha, Mostafa M Amini, Mohsen Sadani, **Akbar Eslami** "Enhanced photocatalytic degradation of ciprofloxacin by black Ti<sub>3+</sub>/N-TiO<sub>2</sub> under visible LED light irradiation: Kinetic, energy consumption, degradation pathway, and toxicity assessment" **Process Safety and Environmental Protection**, 137, 261–272, 2020.

-5. Amineh Salehipour, Akbar Eslami, Mohammad Mirzaee, Fatemeh Bolori, Mohammad Hossien Saghii, Zohreh Bahmani, Marjan Hashemi "Spatial distributions of natural radionuclide concentrations of bottled mineral water: doses estimation and health risk assessment", **Environmental Health Engineering and Management Journal**, 7(2), 107–117, 2020.

-7. **Akbar Eslami**, Fayyaz Mehdipour, Kun-Yi Andrew Lin, Hajar Sharifi Maleksari, Fatemeh Mirzaei, Farshid Ghanbari "Sono-photo activation of percarbonate for the degradation of organic dye: The effect of water matrix and identification of by-products ", **Journal of Water Process Engineering**, 33, 100998, 2020

-8. AhmadReza Yazdanbakhsh, **Akbar Eslami**, Mohamadreza Massoudinejad, Moayed Avazpour, "Enhanced degradation of sulfamethoxazole antibiotic from aqueous solution using Mn-WO<sub>3</sub>/LED photocatalytic process: Kinetic, mechanism, degradation pathway and toxicity reduction ", **Chemical Engineering Journal**, 380, 122497, 2020.

-9. **Akbar Eslami**, Zahra Goodarzvand Chegini, Maryam Khashij, Mohammad Mehralian, Marjan Hashemi "Removal of acetaminophen (ACT) from aqueous solution by using nanosilica adsorbent: experimental study, kinetic and isotherm modeling ", **Pigment & Resin Technology**, 2020.

-10. Fatemeh Amereh, **Akbar Eslami**, Simin Fazelpour, Mohammad Rafiee, Mohammad Ismail Zibaii, Mohammad Babaei "Thyroid endocrine status and biochemical stress responses in adult male Wistar rats chronically exposed to pristine polystyrene nanoplastics ", **Toxicology Research**, Volume 8, Issue 6, pp.953-963, 2019.

-11. Mahbobeh Moradi, Philip Hopke, Mostafa Hadei, Akbar Eslami, Noushin Rastkari, Zohreh Naghdali, Majid Kermani, Baharan Emam, Mohsen Farhadi, Abbas Shahsavani "Exposure to BTEX in beauty salons: biomonitoring, urinary excretion, clinical symptoms, and health risk assessments", **Environmental monitoring and assessment**, 191:286, 2019.

-12. Mahbobeh Moradi, Philip Hopke, Mostafa Hadei, Akbar Eslami, Noushin Rastkari, Zohreh Naghdali, Majid Kermani, Baharan Emam, Mohsen Farhadi, Abbas Shahsavani "Exposure to

- BTEX in beauty salons: biomonitoring, urinary excretion, clinical symptoms, and health risk assessments* ", **Environmental monitoring and assessment**, 191:286, 2019.
- 13. Mohammad Rafiee, **Akbar Eslami**, Reza Saeedi, Mehrnoosh Abtahi "*Multivariate and geostatistical analysis of spatial distribution and potential sources of heavy metals in surface waters* ", **Caspian Journal of Environmental Sciences**, Vol. 17 No. 1 pp. 23~4, 2019.
- 14. Anvar Asadi, Rokhsareh Akbarzadeh, **Akbar Eslami**, Tien-Chien Jen, Peter Ozaveshe Oviroh "*Effect of synthesis method on NS-TiO<sub>2</sub> photocatalytic performance* ", **Energy Procedia**, 158, 4542-4547, 2019.
- 15. Amir Sheikhmohammadi, Ahmadreza Yazdanbakhsh, Gholamreza Moussavi, **Akbar Eslami**, Mohammad Rafiee, Mahdieh Sardar, Mohammad Almasian "*Degradation and COD removal of trichlorophenol from wastewater using sulfite anion radicals in a photochemical process combined with a biological reactor: Mechanisms, degradation pathway, optimization and energy consumption*", **Process Safety and Environmental Protection**, Volume 123, Pages 263-271, March 2019.
- 16. **Akbar Eslami**, Seyed Mehdi Ghasemi "*Determination of the best interpolation method in estimating the concentration of environmental air pollutants in Tehran city in 2015* ", **Journal of Air Pollution and Health**, 3(4): 187-198, 2018.
- 17. Marjan Hashemi, Leila Akhoondi, Mohammad Hossien Saghi, **Akbar Eslami** "*ASSESSMENT OF INDOOR GAMMA RADIATION AND DETERMINATION OF EXCESS LIFETIME CANCER RISK IN TEHRAN IN WINTER AND SPRING 2017* ", **Radiation Protection Dosimetry**, 17 November 2018.
- 18. Nadali Alavi, **Akbar Eslami**, Mohammad Hossien Saghi "*Measurement and monitoring of anions, cations and metals in landfill leachate in Iranian metropolises*", **Data in Brief**, Volume 21, Pages 1818-1822, December 2018.
- 19. Hamideh Bahrami, **Akbar Eslami**, Ramin Nabizadeh, Anoushiravan Mohseni-Bandpi, Anvar Asadi, Mika Sillanpää "*Degradation of trichloroethylene by sonophotolytic-activated persulfate processes: Optimization using response surface methodology*", **Journal of Cleaner Production**, 198, 1210-1218, 2018.
- 20. **Akbar Eslami**, Marjan Hashemi, Farshid Ghanbari "*Degradation of 4-chlorophenol using catalyzed peroxymonosulfate with nano-MnO<sub>2</sub>/UV irradiation: Toxicity assessment and evaluation for industrial wastewater treatment*", **Journal of Cleaner Production**, 195, 1389-1397, 2018.
- 21. **A Eslami**, M Mehralian, ZG Chegini, M Khashij "*Application of nanosilica-based adsorbent for the removal of rhodamine B and methylene blue from aqueous solutions* ", **Desalination and Water Treatment**, 108, 345-352, 2018.
- 22. **Akbar Eslami**, Ali Oghazyan, Mansour Sarafraz "*Magnetically separable MgFe<sub>2</sub>O<sub>4</sub> nanoparticle for efficient catalytic ozonation of organic pollutants*", **Iranian Journal of Catalysis**, 8(2), 95-102, 2018.
- 23. B. Akbari-Adergani, M. H. Saghi, **A. Eslami** , A. Mohseni-Bandpei & M. Rabbani "*Removal of dibutyl phthalate from aqueous environments using a nanophotocatalytic Fe, Ag-ZnO/VIS-*

- LED system: modeling and optimization*", **Environmental Technology**, 39 (12), 1566-1576, 2018.
- 24. **Akbar Eslami**, Mohtasham Ghaffari, Behnam Barikbin, Farzaneh Fanaei "Assessment of safety in drinking water supply system of Birjand city using World Health Organization's water safety plan", **Environmental Health Engineering and Management Journal**, 5(1), 39-47, 2018.
- 25. Mostafa Hadei, Seyed Saeed Hashemi Nazari, **Akbar Eslami**, Ardeshir Khosravi, Maryam Yarahmadi, Zohreh Naghdali, Abbas Shahsavani "DISTRIBUTION AND NUMBER OF ISCHEMIC HEART DISEASE (IHD) AND STROKE DEATHS DUE TO CHRONIC EXPOSURE TO PM2.5 IN 10 CITIES OF IRAN (2013 - 2015); AN AIRQ+ MODELLING", **Journal of Air Pollution and Health**, Volume2 , Issue 3, Pages 129-136, 2018.
- 26. Anoushiravan MohseniBandpi, **Akbar Eslami**, Mansour haderpoori, Abbas Shahsavani, Ali Khani Jeihooni, Afshin Ghaderpoury, Abdolazim Alinejad "Health risk assessment of heavy metals on PM2.5 in Tehran air, Iran ", **Data in Brief**, 17, 347-355, 2018.
- 27. Mohammad Rafiee, Leila Dargahi, **Akbar Eslami**, Elmira Beirami, Mahsa Jahangiri-rad, Siamak Sabour, Fatemeh Amereh "Neurobehavioral assessment of rats exposed to pristine polystyrene nanoplastics upon oral exposur ", **Chemosphere**, 193, 745- 753, 2018.
- 28. Ahmadreza Yazdanbakhsh, **Akbar Eslami**, Gholamreza Moussavi, Mohammad Rafiee, Amir Sheikh Mohammadi "Photo-assisted degradation of 2, 4, 6-trichlorophenol by an advanced reduction process based on sulfite anion radical: Degradation, dechlorination and mineralization ", **Chemosphere**, 191, 156- 165, 2018.
- 29. **Akbar Eslami**, Parviz Nowrouz, Samira Sheikholeslami "Status and Challenges of Medical Waste Management in Hospitals of Iran", **Civil Engineering Journal**, Vol. 3, No. 9, Pages 741- 748, September, 2017.
- 30. **Akbar Eslami**, Mohtasham Ghafari, Valiallah Sohbatloo, Farzane Fanaei "Safety Assessment of Zanzan Drinking Water System Using Water Safety Plan", **Journal of Human, Environment and Health Promotion**, Volume 2 ,Number 3, Pages 138- 146, 2017.
- 31. **Akbar Eslami**, Zeinab Gholami, Shokofeh Nargesi, Bahareh Rostami, Moayed Avazpour "Evaluation of microbial contamination of ready-to-eat foods (pizza, frankfurters, sausages) in the city of Ilam", **Environmental Health Engineering and Management Journal**, Volume 4, Issue 2, Pages 117-121, 2017.
- 32. **A Eslami**, M Mehralian, A Moheb "A study of 4-chlorophenol continuous adsorption on nano graphene oxide column: models comparison and breakthrough behaviors" **Journal of Water Reuse and Desalination**, Volume 7, Issue 3, Pages 272-279, 2017.
- 33. Anoushiravan MohseniBandpi, **Akbar Eslami**, Abbas Shahsavani, Fariba Khodaghali, Abdolazim Alinejad "Physicochemical characterization of ambient PM 2.5 in Tehran air and its potential cytotoxicity in human lung epithelial cells (A549)", **Science of the Total Environment**, Volumes 593-594, Pages 182-190, 1 September 2017.
- 34. Leila Ranjbar, **Akbar Eslami**, Ahmadreza Yazdanbakhsh & Mohammad Hossien Saghi "Toxicity assessment of Tehran water treatment sludges using bioassay tests", **Toxin Reviews**, Published online: 10 Apr 2017.

- 35. **A. Eslami**, B. Akbari-dergani, A. Mohseni-Bandpei, M. Rabbani, M.H. "Saghi Synthesis and characterization of a coated Fe-Ag@ZnO nanorod for the purification of a polluted environmental solution under simulated sunlight irradiation", **Materials Letters**, Volume 197, Pages 205-208, 15 June 2017.
- 36. Noushin Rastkari, Akbar Eslami, Simin Nasseri, Ehsan Piroti, Anvar Asadi "Optimizing Parameters on Nanophotocatalytic Degradation of Ibuprofen Using UVC/ZnO Processes by Response Surface Methodology", **Polish Journal of Environmental Studies**, Volume 26, Issue 2, Pages 785- 794, 2017.
- 37. **Akbar Eslami**, Abbas Shahsavani, Mohammad Hossein Saghi, Leila Akhoondi, Ali Goorani "OUTDOOR GAMMA RADIATION MEASUREMENT IN ORDER TO ESTIMATE THE ANNUAL EFFECTIVE DOSE AND EXCESS LIFETIME CANCER RISK FOR RESIDENTS OF TEHRAN, IRAN" **Journal of Air Pollution and Health**, Volume , Issue 4, Pages 243-250, 2017.
- 38. Leila Ebrahimzadeh, **Akbar Eslami**, Farzam Bidarpoor, Seyyed Jamal Aldin Ebrahimi "An Investigation of Radiation Protection Status in Radiology Centers of Kurdistan in 2014-2015", **Health**, Volume 9, Issue 5, Page 849, 2017.
- 39. A. Mohseni Bandpi, **A. Eslami**, A. Shahsavani, F. Khodaghali, A. Aliaghaei & A. Alinejad "Water-soluble and organic extracts of ambient PM<sub>2.5</sub> in Tehran air: assessment of genotoxic effects on human lung epithelial cells (A549) by the Comet assay", **Toxin Reviews**, Volume 3, Issue 2, Pages 116–124, 2017.
- 40. **A Eslami**, A Asadi, M Meserghani, H Bahrami "Optimization of sonochemical degradation of amoxicillin by sulfate radicals in aqueous solution using response surface methodology (RSM)" **Journal of Molecular Liquids**, Volume 222, Pages 739–744, October 2016.
- 41. **Akbar Eslami**, Hamideh Bahrami, Anvar Asadi and Abdolazim Alinejad "Enhanced sonochemical degradation of tetracycline by sulfate radicals" **Water Science and Technology**, Volume 73, Issue 6, Pages 1293-1300, March 2016.
- 42. **Akbar Eslami**, Mahsa Moradi, Farshid Ghanbari, Vahid Vatanpour "Electrochemical catalytic degradation and biodegradability enhancement of real textile wastewater by anodic and cathodic reactions" **Environmental Engineering and Management Journal**, Volume 10, Issue 15, 2319-2326, 2016.
- 43. Mahsa Moradi, **Akbar Eslami**, & Farshid Ghanbari "Direct Blue 71 removal by electrocoagulation sludge recycling in photo-Fenton process: response surface modeling and optimization" **Desalination and Water Treatment**, Volume 57, Issue 10, Pages 4659-46701-12, 25 February 2016.
- 44. **Akbar Eslami**, Mostafa M Amini, Ahmad R Yazdanbakhsh, Anoushiravan Mohseni-Bandpei, Ali A Safari, and Anvar Asadi "N,S co-doped TiO<sub>2</sub> nanoparticles and nanosheets in simulated solar light for photocatalytic degradation of non-steroidal anti-inflammatory drugs in water: A comparative study" **Journal of Chemical Technology and Biotechnology**, 91: 2693–2704, 2016.
- 45. **A Eslami**, F Karimi, Z Karimi, Z Rajabi "A Survey of the quantity and type of biological aerosols in selected wards of a teaching hospital in Ghazvin" **Electronic Physician**, Volume 8, Issue 4, Pages 2281-2285, April 2016.

- 46. Seyyed Jamal Aldin Ebrahimi, Farzam Bidarpoor, **Akbar Eslami**, and Leila Ebrahimzadeh "Removal of Trihalomethanes from Drinking Water via Heating Method" **Biomedical & Pharmacology Journal**, Vol. 9 (1), 61-66, 2016.
- 47. A. Mohseni Bandpei, **A. Eslami**, A. Zarei, S. Azemnia "Evaluating some physical, chemical, microbiological characteristics and heavy metal concentrations in dried sludge of Alborz industrial wastewater treatment plant: Karaj, Iran (2015)" **International Journal of Pharmacy and Technology**, Vol. 8, Issue No.2, 12903-12911, June 2016.
- 48. A. Mohsenibandpey, **A. Eslami**, H.K. Maleh, M.M. Rabori "Investigating the efficiency of nanocomposite membranes synthesized by polyacrylonitrile polymers containing single-walled carbon nanotubes in decreasing chemical and biological pollution indicators of greywater", **Bulgarian Chemical Communications**, Volume 48, Special Issue D, 102-111, 2016.
- 49. **Akbar Eslami**, Mostafa M Amini, Ahmad Reza Yazdanbakhsh, Noushin Rastkari, Anoushiravan Mohseni-Bandpei, Simin Nasser, Ehsan Piroti, Anvar Asadi "Occurrence of non-steroidal anti-inflammatory drugs in Tehran source water, municipal and hospital wastewaters, and their ecotoxicological risk assessment" **Environmental monitoring and assessment**, 187 (12), 1-15, 2015.
- 50. **Akbar Eslami**, Ahmad Reza Yazdanbakhsh, Mohammad Hassan Momayyezi "Removal of reactive dyes from textile wastewater using sonochemical process: effective parameters study" **Journal of Research & Health**, Vol.5, No.2, Summer, Pages: 184-192, 2015.
- 51. **Eslami, A.**, Karimi F., Karimi, Z.b., Rajabi, Z. "Survey on bioaerosols type and density and ach index impact on bioaersols density in heart surgery rooms and cardiac surgery intensive care unit in a teaching hospital in ghazvin" **Research Journal of Medical Sciences**, Volume 9, Issue 3, Pages 109-113, 2015.
- 52. Ahmadreza Yazdanbakhsh, **Akbar Eslami**, Mostafa Gharloghi, Ehsan Aghayani, Mohammad Mehralian, Bahador Amraei "The efficiency of iron oxide nanoparticles ( $Fe_3O_4$  MNPs) loaded on zeolite as adsorbent for advanced treatment of secondary effluent: An insight of adsorption isotherm and kinetic" **International Journal of Pharmacy and Technology**, Volume 7, Issue 3, Pages 9825-9843, September-December 2015.
- 53. Seyyed Jamal Aldin Ebrahimi, **Akbar Eslami**, and Leila Ebrahimzadeh "Evaluation of heavy metals concentration in the drinking water distribution network in Kurdistan villages in the year 2012" **Journal of Pharmaceutical, Biological and Chemical Sciences**, Volume 6, Issue 2, 55-61, 2015.
- 54. Seyyed Jamal Aldin Ebrahimi, **Akbar Eslami**, and Leila Ebrahimzadeh "Evaluation of the Severity of Dust Storms and Air Quality Index in Sanandaj in 2010" **Research Journal of Pharmaceutical, Biological and Chemical Sciences**, Volume 6, Issue 2, 47-54, 2015.
- 55. Ahmadreza Yazdanbakhsh, Fayyaz Mehdipour, **Akbar Eslami**, Hajar Sharifi Maleksari and Farshid Ghanbari "The combination of coagulation, acid cracking and Fenton-like processes for olive oil mill wastewater treatment: phytotoxicity reduction and biodegradability augmentation" **Water Science & Technology**, 71 (7), 1097-1105, 2015.
- 56. **Akbar Eslami**, Ehsan Aghayani, Gholamhosein Joshani, Nadereh Hezarkhani, Mohammad Hassan Momayyezi, Babak Djahed, Atiye Haddadnejad "Removal of parachlorophenol from the aquatic environment by recycled used tires as an adsorbent: Characterization, adsorption, and

- equilibrium studies*" **Journal of Advances in Environmental Health Research**, Vol. 2, No. 1, PP. 44-53, Winter 2014.
- 57. Farshid Ghanbari, Mahsa Moradia, **Akbar Eslami**, Mohammad Mahdi Emamjomeh "Electrocoagulation/flotation of textile wastewater with simultaneous application of aluminum and iron as anode" **Environmental Processes**, 1:447–457, 2014.
- 58. Seyyed Jamal Aldin Ebrahimi, Leila Ebrahimzadeh, **Akbar Eslami** and Farzam Bidarpoor "Effects of dust storm events on emergency admissions for cardiovascular and respiratory diseases in Sanandaj, Iran " **Journal of Environmental Health Science & Engineering**, 12:110, 2014.
- 59. **Akbar Eslami**, Mahsa Moradi, Farshid Ghanbaria and Fayyaz Mehdipour "Decolorization and COD removal from real textile wastewater by chemical and electrochemical Fenton processes: a comparative study" **Journal of Environmental Health Science & Engineering**, 11:31, 2013.
- 60. Roya Ebrahimi, Afshin Maleki, Behzad Shahmoradi, Hiua Daraei, Amir Hossein Mahvi, Amir Hoshang Barati & **Akbar Eslami** "Elimination of arsenic contamination from water using chemically modified wheat straw" **Desalination and Water Treatment**, Volume 51, Issue 10-12, pp. 2306-2316, 2013.
- 61. Mohammad Ali Zazouli, Zabihollah Yousefi, **Akbar Eslami** and Maryam Bagheri Ardebilian "Municipal solid waste landfill leachate treatment by fenton, photo-fenton and fenton-like processes: Effect of some variables" **Journal of Environmental Health Science & Engineering**, 9:3, 2012.
- 62. M. Majlesi, **A. Eslami**, Y. Mehrabi, H. Najafisaleh, F. Ghanbari "Vermicomposting of food waste: Assessing the stability and maturity" **Journal of Environmental Health Science & Engineering**, 9:25, 2012.
- 63. R. Esmaeli, A.H. Hassani, **A. Eslami**, M. Ahmadi Moghadam, A.A. Safari "Di (2-ethylhexyl) phthalate oxidative degradation by Fenton process in synthetic and real petrochemical wastewater" **Iranian Journal of Environmental Health Science & Engineering**, Vol. 8, No. 3, pp. 201-206, 2011.
- 64. Ali Assadi, **Akbar Eslami** "Comparison of phenol photodegradation by UV/H<sub>2</sub>O<sub>2</sub> and Photo-Fenton processes" **Environmental Engineering and Management Journal**, Vol. 9, No. 6, pp. 807-812, 2010.
- 65. F. Saghatchi, M. Salouti, **A. Eslami** and A. Sharafi "Natural radioactivity levels of <sup>226</sup>Ra <sup>40</sup>K in soil of Zanzan province, Iran" **Radiation Protection Dosimetry**, Volume 141, Issue 1 pp. 86-89, 2010.
- 66. **A. Eslami**, S. Nasserri, B. Yadollahi, A. Mesdaghinia, F. Vaezi , R. Nabizadeh "Removal of methyl tert-butyl ether (MTBE) from contaminated water by photocatalytic process" **Iranian Journal of Public Health**, Vol. 38, No.2, pp.18-26, 2009.
- 67. **A. Eslami**, S. Nasserri, B. Yadollahi, A. Mesdaghinia, F. Vaezi, R. Nabizadeh, Sh. Nazmara "Photocatalytic degradation of methyl tert-butyl ether in contaminated water by ZnO nanoparticles" **Journal of Chemical Technology & Biotechnology**, 83: 1447-1453, 2008.



-68. Saghatchi, Faranak; Salouti, Mojtaba; **Eslami, Akbar** "Assessment of annual effective dose due to natural gamma radiation in Zanjan (IRAN)" **Radiation Protection Dosimetry**, Volume 132, Issue 3 pp. 346-349, 2008.

-69. **A. Eslami**, S. Nasserri, B. Yadollahi, A. Mesdaghinia, F. Vaezi, R. Nabizadeh "Application of photocatalytic process for removal of methyl tert-butyl ether (MTBE) from highly contaminated water" **Iranian Journal of Environmental Health Science & Engineering**, Vol.4, No. 4, pp. 215-222, 2007.

-70. **A. Eslami**, Gh. Jahed Khaniki, M. Norani, M. Mehrasbi, M. Peyda and R. Azimi "Heavy metals in edible green vegetables grown along the sites of the Zanjanrood river in Zanjan, Iran" **Journal of Biological Sciences**, 7: 943-948, 2007.

-71. Gh. Sadeghi, M. Mohammadian, M. Nourani, M. Peyda and **A. Eslami** "Microbiological Quality assessment of rural drinking water supplies in Iran" **Journal of Agriculture & Social Sciences**, 3: 31-33, 2007.

-72. Afshin Maleki, Mohammad Ali Zazoli, **Akbar Eslami** "Adsorption of Phenol by Commercial Powdered Activated Carbon in Aqueous Solution", **Ibn Al-Haitham Journal for Science and Technology**, 1: 73-78, 2005.

-73. A. H. Mahvi, A. Maleki, and **A. Eslami** "Potential of Rice Husk and Rice Husk Ash for Phenol Removal in Aqueous Systems" **American Journal of Applied Sciences**, 4: 321-326, 2004.

#### **B: Papers published in Persian language**

-74. Nadali Alavi, **Akbar Eslami**, Monire Majlessi Nasr, Najme Masihi "Survey of calcium oxide as a heterogenous catalyst for biodiesel production from restaurant waste frying oil ", **Journal of Health in the Field**, Vol.7, No.3, Autumn 2019.

-75. Ahmadreza Yazdanbakhsh, **Akbar Eslami**, Mehrnoosh Abtahi "COD removal and decolorization efficacy of ozonation process in spiral high pressure super mixing reactor for treatment of alcohol distilleries wastewater", **Journal of Health in the Field**, Vol.7, No.3, Autumn 2019.

-76. Nadali Alavi, **Akbar Eslami**, Monire Majlessi Nasr, Najme Masihi "Optimization of Biodiesel Production Process from Restaurant Waste Frying Oils in the Presence of Homogeneous Catalyst ", **Journal of Environmental Health Engineering**, Volume 7, Issue 1, pp. 83-93, 2019.

-77. Maryam Amini, Ahmadreza Yazdanbakhsh, Akbar Eslami, Ehsan Aghayani " Optimization of coagulation-flocculation process for dye and COD removal from real dyeing wastewater and evaluation of effluent biodegradability in a carpet factory", **Journal of Health in the Field**, Vo5., No.3, Autumn 2017.

-78. Akbar Eslami, Somaye Akbari, Maghsud jafarinia "The Study of Microbial Contamination in Karaj City Swimming Pools and Its Relation To Physicochemical Parameters and the Number of Swimmers ", **Journal of Environmental Health Engineering**, Vol., No.2, 115-129, 2014.

-79. Ali Oghazyan, Ahmadreza Yazdanbakhsh, Akbar Eslami, Anvar Asadi "Removal of Ibuprofen from aqueous solutions by Ozonation process ", **Journal of Health in the Field**, Vol., No.3, Autumn 2016.

- 80. **A Eslami**, A Moheb, M Mehralian, M Khashij "Removal of 4-chlorophenol from synthetic wastewater by the granulated graphene oxide nano particles", **Journal of Toloo-e-behdasht**, 15(3): 209-220, 2016.
- 81. **Akbar Eslami**, Mohammad Hossien Saghi, Ayob Rastegar "Assessment of background gamma radiation and determination of excess lifetime cancer risk in Sabzevar City, Iran in 2014", **Tehran University Medical Journal**, 73(10): 751-755, 2016.
- 82. Ahmadreza Yazdanbakhsh, **Akbar Eslami**, Somayeh Rezaei "Quality assessment of Tehran's Firoozabad Channel surface runoff for irrigation uses", **Journal of Health in the Field**, Vol.3, No.3, Autumn 2015.
- 83. Anoushiravan Mohseni-Bandpei, Masoud Fattahzadeh, Roshanak Rezaei Kalantary, **Akbar Eslami** "Evaluation of Diazinon Adsorption from Water Solutions Using Magnetic Carbon Nano-Tubes with  $Fe_3O_4$ ", **Journal of Environmental Health Engineering**, Volume 2, Issue 4, Page 283-293, 2015.
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### Books (Translation)

Phosphorous and Nitrogen Removal from Municipal Wastewater by: Richard Sedlak,  
Translated By: A.R. Yazdanbakhsh, **A. Eslami**, E. Bazrafshan, and G. Ghanizadeh

### International Conference Presentations

1. "Photocatalytic degradation of methyl tert-butyl ether (MTBE) from contaminated water: complete mineralization", **The Third International Meeting on Environmental Biotechnology and Engineering (3IMEBE)**, 21-25 September 2008, Palma de Mallorca, Spain – *Oral presentation*
2. "Survey of Fluoride Concentration in Drinking Water Sources and Prevalence of DMFT in the 12 Years Old Students in Zanjan, Iran", **XXVIIth conference of the International Society for Fluoride Research (ISFR)**, 9-12 October 2007, Beijing, China – *Poster presentation*
3. "Heavy metals in edible green vegetables grown along the sites of the Zanjanrood river in Zanjan, Iran: Implications for human health", **5th European Congress on Tropical Medicine and International Health**, May 24–28, 2007, Amsterdam, The Netherlands – *Oral presentation*

4. "Assessment of gamma background radiation in different seasons in Zanjan", **International Conference on Environmental Radioactivity: From Measurements and Assessments to Regulation**, 23 – 27 April 2007, Vienna, Austria – *Poster presentation*

## Dissertation Supervisor

1. The feasibility study on the application of micellar-enhanced ultrafiltration process for concentrating of Gold and removal of brominated flame retardant (BFR) from leachate resulting from waste printed circuit boards of discarded mobile phones (To receive PhD in Environmental Health).
2. Study on efficiency of PES hollow fiber ultrafiltration membrane modified with black  $Ti^{3+}/N-TiO_2$  nanophotocatalyst under visible-light irradiation for removal of ciprofloxacin from aqueous solutions (To receive PhD in Environmental Health).
3. Efficiency of MBBR reactor bioaugmented with gene cloning of Mn peroxidase in *Pseudomonas* for removal of diazinon from wastewater (To receive MSC in Environmental Health Engineering).
4. Optimization of persulfate activation process by simultaneously ultraviolet irradiation and ultrasonic for degradation and ecological toxicity reduction of trichlorethylene (TCE) in the aquatic solutions by response surface methodology (RSM) analysis (To receive PhD in Environmental Health).
5. Survey of microplastics pollution in water and sediments in the estuarine of Haraz River (To receive MSC in Environmental Health Engineering).
6. Modeling of photocatalytic process using nanocomposite Fe / Ag-ZnO with LED irradiation for removal of phthalates (DEHP and DBP) from aqueous solution- Case study , leachate treatment plant effluent in Aradkoh landfill (To receive PhD in Environmental Health).
7. Assessment of Outdoor Background Gamma Radiation in Tehran in winter and spring – 2016 (To receive MSC in Environmental Health Engineering).
8. Assessment Of safety in Drinking Water Supply System of Birjand City Using World Health Organization's Water Safety Plan, Based On Risk Management Approach (To receive MSC in Environmental Health Engineering).
9. Study on removal of non-steroidal anti-inflammatory drugs (Ibuprofen and Naproxen) from water by nano-photocatalytic process using N-S co-doped  $TiO_2$  under simulated solar irradiation (To receive PhD in Environmental Health).
10. Investigation of effective parameters on performance of electro-fenton process using cathode electrode based on nanographene for the treatment of Yazdbaf factory textile wastewater containing mixture of dyes (To receive MSC in Environmental Health Engineering).
11. Evaluation of sludge toxicity in Tehran water treatment plants using bioassays (To receive MSC in Environmental Health Engineering).

12. Survey of natural radionuclide concentrations such as U-238, Th-232, Ra-226, Ra-228, Pb-210, Po-210 and K-40 in bottled mineral waters of Iran-2014 (To receive MSC in Environmental Health Engineering).
13. Investigation of 4-chlorophenol removal efficiency from aqueous solution using graphene oxide nanopowder by continuous fixed bed adsorption (To receive MSC in Environmental Health Engineering).
14. An investigation into the remediation efficiency of Tetrachloroethylene contaminated water using Permeable Reactive Barrier (PRB) technology (To receive MSC in Environmental Health Engineering).
15. Survey of effective parameters on the combined sonoelectrochemical process efficiency for treatment of textile wastewater containing reactive dye in Yazdbaf factory (To receive MSC in Environmental Health Engineering).
16. Comparative survey of nitrate removal from drinking water using modified natural clays (To receive MSC in Environmental Health Engineering).
17. Process optimization of electrochemically generated Fenton's reagent using graphite and platinum electrodes for COD and acidic dye removal from textile wastewater (To receive MSC in Environmental Health Engineering).
18. Study on the efficiency of modified nanoporous graphene adsorbent for removal of 4-chlorophenol from aqueous solution (To receive MSC in Environmental Health Engineering).
19. Oxidative degradation of dioctyl phthalate (DOP) by photochemically-enhanced Fenton reaction in petrochemical wastewater plant (To receive MSC in Environmental Engineering).

## Dissertation Advisor

1. Investigation of removal of persistent chlorine pollutants from industrial waste using planetary Ball mill and the possibility of simultaneous production of nanocomposites (To receive PhD in Environmental Health).
2. Efficacy study of integrated nano-sono-photocatalytic with visible light (VL/US/CuFe<sub>2</sub>O<sub>4</sub>) on the degradation of Atenolol from Aqueous Solutions (To receive PhD in Environmental Health).
3. Kinetic and deterministic investigation of the inhibitory effects of Cefixime on microbial growth and organic matters removal and Nitrification in a sequencing batch moving bed biofilm reactor (To receive PhD in Environmental Health).
4. Investigation of Cefixime and Ibuprofen drugs removal efficiency from aqueous solution using surface functionalized silica aerogel derived from pumice by continuous fixed bed adsorption (To receive PhD in Environmental Health).
5. Bioremediation of soil contaminated with pyrene by bio-augmented with gene cloning of Mn peroxidase in Pseudomonas (To receive MSC in Environmental Health Engineering).

6. Investigation of biodegradability enhancement of wastewater containing 2,4,6-trichlorophenol using UV/SO<sub>3</sub><sup>2-</sup> advanced reduction process (To receive PhD in Environmental Health).
7. Evaluation of polystyrene nanoplastics effects on endocrine system in animal model (To receive MSC in Environmental Health Engineering).
8. Feasibility of biodiesel production from waste frying oil restaurant using: furnace and converter steel slag industry as heterogeneous catalyst (To receive MSC in Environmental Health Engineering).
9. Investigation of combined coagulation and ozonation process efficiency for turbidity, COD, color removal as well as toxicity reduction of dyeing effluent in a carpet factory (To receive MSC in Environmental Health Engineering).
10. Study on efficiency of carboneous absorbent derived from orange tree wood waste for removal of Tetracycline in aqueous solutions (To receive MSC in Environmental Health Engineering).
11. Investigate the efficiency of polymer nanocomposites synthesis with poly acrylonitrile activated carbon and carbon nanotubes removal of BOD, COD, TDS, TSS, Total Coliform, Fecal Coliform and detergents for recycling gray water (To receive PhD in Environmental Health).
12. Feasibility study for recycling and stabilization of sludge by aerobic digestion in Alborz Industrial City's wastewater treatment plant (To receive MSC in Environmental Health Engineering).
13. Investigation of Quality Characteristics and Treatability of surface run off in Tehran's FiroozAbad Channel for Irrigation uses in 2015 (To receive MSC in Environmental Health Engineering).
14. Investigation of diazinon adsorption from aquatic solution by Fe<sub>3</sub>O<sub>4</sub> magnetic multi wall carbon nanotube (MWCNTs) (To receive MSC in Environmental Health Engineering).
15. Evaluation of iron oxide nanoparticles loaded on clinoptilolite in the advanced treatment of effluent of wastewater treatment plant (To receive MSC in Environmental Health Engineering).
16. A Comparative study on the capability of modified zeolite with Fe and KMnO<sub>4</sub> for removal Fe<sup>2+</sup> and Mn<sup>2+</sup> from water (To receive MSC in Environmental Health Engineering).
17. Study on the efficiency of ozonation for wastewater advanced treatment in molasses-based alcohol distilleries by spiral high pressure super mixing reactor (S2MXR) (To receive MSC in Environmental Health Engineering).
18. Investigation of sewer utilization on the nitrate concentration trends in Qazvin ground water resources (To receive MSC in Environmental Health Engineering).
19. Study on performance of aerobic sequencing batch bioreactor with clinoptilolite media to remove formaldehyde from wastewater (To receive MSC in Environmental Health Engineering).
20. Survey of saline and brackish waters desalination by carbon aerogel method and comparing with electrolysis method (To receive MSC in Environmental Health Engineering).

21. Study on the efficiency of olive mill wastewater (OMWW) treatment using integrated coagulation, acid cracking and Fenton-like oxidation processes (To receive MSC in Environmental Health Engineering).
22. Study on the effect of natural clinoptilolite on vermicompost quality produced from food waste (To receive MSC in Environmental Health Engineering).
23. Assessment of Fenton, photo-Fenton and modified Fenton in municipal landfill leachate treatment (To receive MSC in Environmental Health Engineering).
24. Optimization of net work solid waste collection and transferring system in Zanjan with utilizing suitable mathematical model and GIS (To receive MSC in Environmental Engineering).

## Research Projects

1. The feasibility study on the application of micellar-enhanced ultrafiltration process for concentrating of Gold and removal of brominated flame retardant (BFR) from leachate resulting from discarded mobile phones
2. Occurrence of microplastics in the influent, effluent and sludge of south wastewater treatment plant of Tehran
3. Modeling and optimization of photocatalytic degradation of ibuprofen with black Ti<sub>3+</sub>/N-TiO<sub>2</sub> nanophotocatalyst under visible-light irradiation from aqueous solutions
4. Study on efficiency of PES hollow fiber ultrafiltration membrane modified with black Ti<sub>3+</sub>/N-TiO<sub>2</sub> nanophotocatalyst under visible-light irradiation for removal of ciprofloxacin from aqueous solutions
5. The study on the efficiency of Peroxymonosulfate/UV/MnO<sub>2</sub> nanoparticles for 4-Chlorophenol removal
6. Study on efficiency of modified nano silicate adsorbent for removal of pharmaceuticals from aqueous solutions - A case study acetaminophen
7. Effect of organic loading rate on performance, operation parameters and sludge yield in the FBBSBR and FBBSR using for municipal wastewater treatment: modeling and optimization, 2017.
8. Survey of microplastics pollution in water and sediments in the estuarine of Haraz River
9. Assessment of Indoor Background Gamma Radiation in Tehran in winter and spring 2017.
10. Study on removal of Diclofenac by combined Ozonation/Persulfate process from aqueous solutions, 2017.
11. Investigation of removal efficiency of Cationic dyes (Methylene blue and Rhodamine B) from aqueous solutions by nano silicate adsorbent, 2016.
12. A study on combination of Permeable Reactive Barrier (PRB) and sulfate radical-based advanced oxidation process for the treatment of perchloroethylene-polluted water, 2016.



13. Modeling of photocatalytic process using nanocomposite Fe / Ag-ZnO with LED irradiation for removal of phthalates (DEHP and DBP) from aqueous solution - A case study leachate treatment plant effluent in Aradkoh landfill, 2017.
14. Assessment of Outdoor Background Gamma Radiation in Tehran in winter and spring – 2016.
15. Catalytic Ozonation Efficiency of Magnetic MgFe<sub>2</sub>O<sub>4</sub> Nano-particles for removal of 4-chlorophenol from aqueous environments, 2016.
16. Modeling of optimized process of ultrasonic and Ag activated persulfate using Response Surface Methodology (RSM) for removing of amoxicillin from aqueous solutions, 2016.
17. Study on removal of non-steroidal anti-inflammatory drugs (Ibuprofen and Naproxen) from water by nano-photocatalytic process using N-S co-doped TiO<sub>2</sub> under simulated solar irradiation, 2016.
18. Assessment Of safety in Drinking Water Supply System of Birjand City Using World Health Organization's Water Safety Plan, Based On Risk Management Approach, 2015.
19. Study on removal of the Tetracycline by advanced oxidation process based on the sulfate radical (SR-AOPs) in the aqueous solutions, 2015.
20. Evaluation of sludge toxicity in Tehran water treatment plants using bioassays, 2015.
21. An investigation into the remediation efficiency of Tetrachloroethylene contaminated water using Permeable Reactive Barrier (PRB) technology, 2014.
22. Survey of effective parameters on the combined sonoelectrochemical process efficiency for treatment of textile wastewater containing reactive dye in Yazdbaf factory, 2013.
23. Study on the efficiency of modified nanoporous graphene adsorbent for removal of 4-chlorophenol from aqueous solution, 2012.
24. Process optimization of electrochemically generated Fenton's reagent using graphite and platinum electrodes for COD and acidic dye removal from textile wastewater, 2011.
25. A Survey of physicochemical and biological quality of leachate & its effects on groundwater sources in landfill of Zanjan, 2008.
26. Assessment of Outdoor and Indoor Environmental Gamma Radiation in Zanjan-Iran 2006.
27. Study on background radiation levels in Zanjan, Iran, 2005.

## Membership in Scientific Societies

Iranian Association of Environmental Health  
Iranian Radiation Protection Society  
Iranian Society of Nano Technology  
Iranian Society of Public Health