

# Kurdistan University of Medical Sciences Faculty of Health Department of Environmental Health Engineering

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#### **Scientific References**

| h. Index: 13 (https://www.scopus.com/authid/detail.uri?authorId=55760701100) |   |
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#### **Educational Qualification**

2010-2014 PhD, Environmental Health, Tarbiat Modares University, Tehran, Iran

2005-2007 M.Sc. Environmental Health Engineering, <u>Isfahan University of Medical</u> Sciences, Isfahan, Iran

2002-2004 B.E. Environmental Health Engineering, <u>Tehran University of Medical</u>, <u>Sciences</u>, Tehran, Iran

## **Published Papers**

- 1. Photocatalytic Degradation of 2,4-Dichlorophenoxyacetic Acid in Aqueous Solution Using Mn-doped ZnO/Graphene Nanocomposite Under LED Radiation, Roya Ebrahimi, Mahnaz Mohammadi, Afshin Maleki, Ali Jafari, Behzad Shahmoradi, Reza Rezaee, Mahdi Safari, Hiua Daraei, Omid Giahi, Kaan Yetilmezsoy, Shivaraju Harikaranahalli Puttaiah, Journal of Inorganic and Organometallic Polymers and Materials(2019) Article in press
- <u>The synthesis and application of the Fe3O4@ SiO2 nanoparticles functionalized with</u> <u>3-aminopropyltriethoxysilane as an efficient sorbent for the adsorption of ethylparaben</u> <u>from from wastewater: Synthesis, kinetic, thermodynamic and equilibrium studies.</u> Sheikhmohammadi A, **Safari M,** Alinejad A, Esrafili A, Nourmoradi H.e, Asgari E. Journal of Environmental Chemical Engineering 7 (5), 103315(2019).
- 3. <u>Sonocatalytic and photocatalytic efficiency of transition metal-doped ZnO</u> nanoparticles in the removal of organic dyes from aquatic environments. Hossienzadeh

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- 4. <u>Mechanistic investigation of ciprofloxacin recovery by magnetite-imprinted chitosan</u> <u>nanocomposite: Isotherm, kinetic, thermodynamic and reusability studies,</u> Hassan Rasoulzadeh, Anoushiravan Mohseni-Bandpei, Mehdi Hosseini, **Mahdi Safari**, International Journal of Biological MacromoleculesVolume 133, 712-721(**2019**)
- 5. <u>Sonocatalytic degradation of tetracycline antibiotic using zinc oxide nanostructures</u> <u>loaded on nano-cellulose from waste straw as nanosonocatalyst</u>, Reza Darvishi Cheshmeh Soltani, Masumeh Mashayekhi, Masumeh Naderi, Grzegorz Boczkaj, Sahand Jorfi, **Mahdi Safari**, Ultrasonics Sonochemistry, Volume 55, 117-124(**2019**)
- <u>Evaluation of the effect of electrospun nanofibrous membrane on removal of diazinon</u> <u>from aqueous solutions</u>, Mohammad Amin Pordel, Afshin Maleki, Reza Ghanbari, Reza Rezaee, Mehrdad Khamforoush, Hiua Daraei, Saeed Dehestani Athar, Behzad Shahmoradi, **Mehdi Safari**, Amir hossein Ziaee, Seung-Mok Lee, Reactive and Functional PolymersVolume 139, 85-91(2019)
- Photocatalytic degradation of organic dyes using WO 3 -doped ZnO nanoparticles fixed on a glass surface in aqueous solution, Roya Ebrahimi, Afshin Maleki, Yahya Zandsalimi, Reza Ghanbari, Behzad Shahmoradi, Reza Rezaee, Mahdi Safari, Sang W Joo, Hiua Daraei, Shivaraju Harikaranahalli Puttaiah, Omid Giahi, Journal of Industrial and Engineering Chemistry, Volume 73, 297-305(2019).
- Synthesis of immobilized cerium doped ZnO nanoparticles through the mild hydrothermal approach and their application in the photodegradation of synthetic wastewater, Bayan Vakili, Behzad Shahmoradi, Afshin Maleki, Mahdi Safari, Jixiang Yang, Radheshyam R Pawar, Seung-Mok Lee, Journal of Molecular LiquidsVolume 280, 230-237(2019)
- 9. Effects of doping zinc oxide nanoparticles with transition metals (Ag, Cu, Mn) on photocatalytic degradation of Direct Blue 15 dye under UV and visible light irradiation, Roya Ebrahimi, Khosro Hossienzadeh, Afshin Maleki, Reza Ghanbari, Reza Rezaee, Mahdi Safari, Behzad Shahmoradi, Hiua Daraei, Ali Jafari, Kaan Yetilmezsoy, Shivaraju Harikaranahalli Puttaiah, Journal of Environmental Health Science and Engineering, Volume 17, Issue 1, 479-492(2019)
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- <u>Ultrasonically facilitated adsorption of an azo dye onto nanostructures obtained from</u> <u>cellulosic wastes of broom and cooler straw</u>, **Safari M.**, Khataee A., Darvishi Cheshmeh Soltani R., Rezaee R., Journal of colloid and interface science 522, 228-24 (2018).
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- 21. Enhanced sonocatalysis of textile wastewater using bentonite-supported ZnO nanoparticles: Response surface methodological approach; RDC Soltani, S Jorfi, M Safari, MS Rajaei; Journal of environmental management 179, 47-57; (2016)
- <u>Fabrication of ultrathin graphene oxide-coated membrane with hydrophilic properties</u> for arsenate removal from water; R Rezaee, S Nasseri, AH Mahvi, A Jafari, M Safari, B Shahmoradi, ...; Journal of Advances in Environmental Health Research 4 (3), 169-175; (2016)
- 23. <u>Simultaneous nitrification-denitrification in a sequencing batch reactor equipped with</u> <u>fixed Kaldnes carriers</u>; R Darvishi Cheshmeh Soltani, M Safari, R Rezaee, A Rezaee; Journal of Advances in Environmental Health Research 3 (4); (2016)
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- 25. <u>Application of experimental design approach for optimization of the photocatalytic degradation of humic substances in aqueous solution using immobilized ZnO nanoparticles</u>; H Hossini, M Safari, R Rezaee, R Darvishi Cheshmeh Soltani, O Giahi, ...; Journal of Advances in Environmental Health Research 3 (3); (2016)
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- 29. <u>Response surface methodological evaluation of the adsorption of textile dye onto biosilica/alginate nanobiocomposite: Thermodynamic, kinetic, and isotherm studies;</u> RDC Soltani, AR Khataee, H Godini, M Safari, MJ Ghanadzadeh, ...; Desalination and Water Treatment 56 (5), 1389-1402; (2015)
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- 32. <u>Survey on electrode type effectiveness on electro coagulation process as a method for polluted water treatment in emergencies</u>; H Hashemi, H Farrokhzadeh, M Safari, A Khodabakhshi; International Journal of Health System and Disaster Management 3 (4), 185-188; (2015)
- 33. <u>Increasing of leachate quality using an integrated aerobic membrane bioreactor</u>; H Hashemi, A Khodabakhshi, M Safari; Journal of Advances in Environmental Health Research 3 (1), 27-32; (2015)
- 34. <u>Photocatalytic degradation of methylene blue dye over immobilized ZnO nanoparticles:</u> <u>Optimization of calcination conditions;</u> RDC Soltani, A Rezaee, R Rezaee, M Safari, H Hashemi; Journal of Advances in Environmental Health Research 3 (1), 8-14; (2015)
- 35. <u>Feasibility of large amounts biogas production from garbage bioliquid</u>; H Hashemi, M Safari, A Ebrahimi, MR Samaei, A Khodabakhshi; International Journal of Health System and Disaster Management 3 (3), 147; (2015)
- 36. <u>Inactivation of Pseudomonas aeruginosa by zinc oxide nanoparticles in aqueous</u> <u>solution;</u> A Maleki, MA Jebeli, E Kalantar, H Daraei, B Davari, M Safari; Antimicrobial Resistance and Infection Control 4 (1), I6; (2015)
- Bio-electrochemical reduction of nitrate from wastewater using graphite-coated multiwalled carbon nanotubes; Mahdi Safari, Abbas Rezaee, Bita Ayati; The Modares journal of civil engineering 15 (1), 57-65; (2015)
- 38. <u>Application of Immobilized Silica Nanopowder within Alginate for Cadmium Adsorption from Aqueous Solutions</u>; RDC Soltani, H Goodini, M Ghannadzadeh, M Rajaie, M Safari; journal of Water Wastewater 26 (3), 2-10; (2015)
- 39. <u>Simultaneous removal of nitrate and its intermediates by use of bipolar</u> <u>electrochemistry</u>; M Safari, A Rezaee, B Ayati, A Jonidi-Jafari; Research on Chemical Intermediates 41 (3), 1365-1372; (2015)
- 40. <u>Bioelectrochemical denitrification using carbon felt/multiwall carbon nanotube</u>; A Rezaee, M Safari, H Hossini; Environmental technology 36 (8), 1057-1062; (2015)
- 41. <u>Photocatalytic degradation of formaldehyde in aqueous solution using ZnO</u> <u>nanoparticles immobilized on glass plates</u>; R Darvishi Cheshmeh Soltani, A Rezaee, M

Safari, AR Khataee, B Karimi; Desalination and Water Treatment 53 (6), 1613-1620; (2015)

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- 43. <u>Application of a compound containing silica for removing ammonium in aqueous</u> <u>media</u>; R Darvishi Cheshmeh Soltani, M Safari, A Rezaee, H Godini; Environmental Progress & Sustainable Energy 34 (1), 105-111; (2015)
- 44. <u>Bio-electrochemical reduction of nitrate utilizing MWCNT supported on carbon base</u> <u>electrodes: A comparison study;</u> M Safari, A Rezaee, B Ayati, A Jonidi-Jafari; Journal of the Taiwan Institute of Chemical Engineers 45 (5), 2212-2216; (2014)
- 45. <u>Photocatalytic process by immobilized carbon black/ZnO nanocomposite for dye</u> removal from aqueous medium: Optimization by response surface methodology; RDC Soltani, A Rezaee, AR Khataee, M Safari; Journal of Industrial and Engineering Chemistry 20 (4), 1861-1868; (2014)
- 46. <u>Autohydrogenotrophic denitrification by a bioelectrochemical process: A viability</u> <u>study; M Safari</u>, A Rezaee, B Ayati, AJ Jafari; Iranian Journal of Health, Safety and Environment 1 (2), 53-58; (2014)
- 47. <u>Equilibrium and kinetic studies of chromium adsorption from wastewater by</u> <u>functionalized multi-wall carbon nanotubes</u>; Hooshyar Hossini, Abbas Rezaee, Seyed Omid Rastegar, Sseyedenayat Hashemi ...; Reaction Kinetics, Mechanisms and Catalysis 112 (2), 371-382; (2014)
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- 49. Evaluation of health, environmental, economic and technical aspects of disinfection of WWTP effluent in the north of Isfahan with UV instead of chlorine; H Hashemi, MM Amin, A Ebrahimi, R Rezaie, M Safari; Scientific Journal of Kurdistan University of Medical Sciences 16 (4), 50-59; (2012)
- 50. EVALUATING THE AMOUNT OF RESIDUAL ALUMINUM FROM CONVENTIONAL AND ENHANCED COAGULATION USING POLY-ALUMINUM CHLORIDE IN REFINED WATER; MM Amin, H Hashemi, M Safari, Z Rezaei; HEALTH SYSTEM RESEARCH 8 (3), 449-455; (2012)

- 51. Feasibility of humic substances removal by enhanced coagulation process in surface water; MM Amin, M Safari, A Maleki, M Ghasemian, R Rezaee, H Hashemi; International Journal of Environmental Health Engineering 1 (1), 29; (2012)
- 52. Determination of fluoride in sanandaj drinking water resources; A Maleki, SNAA Bakhtiarvand, M Safari, R Rezaee; Jundishapur Journal of Health Sciences 3 (1), 19-27; (2011)
- 53. <u>Reduction of humic substances in water by application of ultrasound waves and ultraviolet irradiation</u>; AH Mahvi, A Maleki, R Rezaee, M Safari; Iranian Association of Environmental Health (IAEH); (2010)
- 54. <u>Assessment of chemical pollution of groundwater resources in downstream regions of</u> <u>Sanandaj landfill.</u>; R Rezaee, A Maleki, M Safari, A Ghavami; Scientific Journal of Kurdistan University of Medical Sciences 15 (3); (2010)

## **Editorial Team**

Editorial Team, Journal of Advances in Environmental Health Research

Editorial Team, Avicenna Journal of Environmental Health Engineering

Editorial Team, Journal of Health and Environment [In Persian]

# **Teaching experience**

Water quality management, (B.E. in Environmental Health Engineering)

Designing Water Distribution Systems (B.E. in Environmental Health)

Hydrology (B.E. in Environmental Health)

Air pollution (B.E. in Environmental Health)

Instrumental analysis (M. in Environmental Health)

Material Recycling and Energy Production (M. in Environmental Health)

Reporting and Documentation (Ph.D. in Environmental Health)