

Curriculum Vitae

Full name with family name underlined: Afshin Maleki

Academic Rank: Professor

School: Health

Department: Environmental Health Engineering

Address: Department of Environmental Health Engineering, School of Health. Kurdistan University of Medical Sciences, Sanandaj, Iran.

Tel: +98 873 3626969, +98 873 1827 007 **Fax:** +98 873 3620131

Email: maleki_3@yahoo.com

Awards:

- Best researcher in Kurdistan University of Medical Sciences during 2014
- Best researcher in Kurdistan University of Medical Sciences during 2013
- Best researcher in Kurdistan University of Medical Sciences during 2011.
- Exemplar lecturer in Kurdistan University of Medical Sciences during 2010.
- Best researcher in Kurdistan University of Medical Sciences during 2009.
- Best researcher in Kurdistan University of Medical Sciences during 2008.
- Exemplar lecturer in Kurdistan University of Medical Sciences during 2008.
- Best researcher in Kurdistan University of Medical Sciences during 2007.
- Best researcher in school of Health, Kurdistan University of Medical Sciences during 2006.

Education:

Ph.D. in Environmental Health Engineering, Tehran University of Medical Sciences, Tehran, Iran. 2006.

M.Sc. in Environmental Health Engineering, Tehran University of Medical Sciences, Tehran, Iran. 1996.

B.Sc. in Environmental Health, Tehran University of Medical Sciences, Tehran, Iran. 1994.

Positions Held

- Professor, Department of Environmental Health Engineering, School of Health, Kurdistan University of Medical Sciences, ۲۰۱۵.
- Associate Professor, Department of Environmental Health Engineering, School of Health, Kurdistan University of Medical Sciences, ۲۰۱۰.
- Assistant Professor, Department of Environmental Health Engineering, School of Health, Kurdistan University of Medical Sciences, ۲۰۰۶-۲۰۱۰.
- Head of Department of Environmental Health Engineering, School of Health, Kurdistan University of Medical Sciences, ۲۰۰۶- present.
- Dean of School of Health, Kurdistan University of Medical Sciences, ۲۰۰۶- present.
- Dean of Environmental Health Research Center, Kurdistan University of Medical Sciences, ۲۰۱۰- present.
- Lecturer, Department of Environmental Health Engineering, School of Health, Kurdistan University of Medical Sciences, ۱۹۹۶-۲۰۰۶.

Experiences:

Teaching:

Different undergraduate and graduate courses in B.Sc., M.Sc and Ph.D. Such as:

Water Treatment, Air Pollution Control, Wastewater Collection Systems, Environmental Impact Assessment, ...

Research:

Supervision of ۱۰ MSc. and ۴ Ph.D. theses in Environmental Health Engineering, all of them in Water and Wastewater Engineering Subjects and pollution control.

Several other research projects in Environmental pollution control and monitoring

Research Interests

- Environmental pollution control and monitoring
- Waste treatment
- AOPs
- Nanotechnology

Journal Papers:

A. English Publications

۱. Hayati B, Arami M, **Maleki A**, Pajootan E. Application of dendrimer/titania nano-hybrid for the removal of phenol from contaminated wastewater. *Desalination and Water Treatment* ۲۰۱۵; Inpress.
۲. Amini Sh, Rezaee R, Jafari A, **Maleki A**. Evaluation of corrosion and scaling potential of drinking water supply sources of Marivan villages, Iran. *J Adv Environ Health Res* ۲۰۱۵; ۳(۳): ۱۷۲-۸.
۳. Bahmani P, **Maleki A**, Mahvi AH, Daraei H, Ghahremani E, Naghipour-Khalkhaliani D. Spatial distribution of fluoride in groundwater resources in selected parts of Kurdistan Province, Iran, using the geographical information system. *J Adv Environ Health Res* ۲۰۱۵; ۳(۲): ۷۱-۷.
۴. Naghizade Asl M, Mohammadi MN, Teymouri P, Shahmoradi B, Rezaee R, **Maleki A**. Adsorption of organic dyes using copper oxide nanoparticles: isotherm and kinetic studies. *Desalination and Water Treatment*. ۲۰۱۶, doi: ۱۰.۱۰۸۰/۱۹۴۴۳۹۹۴.۲۰۱۶.۱۱۵۱۸۳۲.
۵. **Maleki A**, Daraei H, Mohammadi E, Zandi Sh, Teymouri P, Mahvi AH, Gharibi F. Daily Fluoride Intake from Iranian Green Tea: Evaluation of Various Flavorings on Fluoride Release. *Environmental Health Insights* ۲۰۱۶; ۱۰: ۵۹-۶۳.
۶. Balarak D, Mahdavi Y, **Maleki A**, Daraei H, Sadeghi Sh. Studies on the Removal of Amoxicillin by Single Walled Carbon Nanotubes. *British Journal of Pharmaceutical Research* ۲۰۱۶; ۱۰(۴): ۱-۹.
۷. Salehi K, Daraei H, Teymouri P, Shahmoradi B, **Maleki A**. Cu-doped ZnO nanoparticle for removal of reactive black ۵: application of artificial neural networks and multiple linear regression for modeling and optimization. *Desalination and Water Treatment* ۲۰۱۵; doi: ۱۰.۱۰۸۰/۱۹۴۴۳۹۹۴.۲۰۱۵.۱۱۳.۶۵۸.
۸. Daraei H, **Maleki A**, Mahvi AH, Alaei L, Rezaee R, Ghahremani E, Mirzaei N. Simultaneous Determination of Inorganic Anions in Bottled Drinking Water by the Ion Chromatography Method. *Journal of Water Chemistry and Technology*, ۲۰۱۵; ۳۷ (۵): ۲۵۳-۲۵۷.
۹. Hosseini G, **Maleki A**, Daraei H, Faez E, Shahamat YD. Electrochemical Process for Diazinon Removal from Aqueous Media: Design of Experiments, Optimization, and

- DLLME-GC-FID Method for Diazinon Determination. *Arabian Journal for Science and Engineering* ۴۰ (۱۱), ۳۰۴۱-۳۰۴۶.
۱۰. Yavari S, Mahmodi NM, Teymouri P, Shahmoradi B, **Maleki A**. Cobalt ferrite nanoparticles: Preparation, characterization and anionic dye removal capability. *Journal of the Taiwan Institute of Chemical Engineers* ۲۰۱۶; ۵۹: ۳۲۰-۳۲۹.
 ۱۱. Hosseini G, Teymouri P, Shahmoradi B, **Maleki A**. Determination of the Concentration and Composition of PM_{۱۰} during the Middle Eastern Dust Storms in Sanandaj, Iran. *J Res Health Sci*. ۲۰۱۵; ۱۰(۳): ۱۸۲-۱۸۸.
 ۱۲. Ahmadi Jebelli M, Kalantar E, **Maleki A**, Izanloo H, Gharibi F, Daraei H, Hayati B, Ghasemi E, Azari A. Antimicrobial Activities of the Polypropylene Imine Dendrimer Against Bacteria Isolated From Rural Water Resources. *Jundishapur Journal of Natural Pharmaceutical Products* ۲۰۱۵; ۱۰(۳): e۲۰۶۲۱.
 ۱۳. Mansouri B, **Maleki A**, Johari S.A. Reshahmanish N., Effects of cobalt oxide nanoparticles and cobalt ions on gill histopathology of zebrafish (*Danio rerio*). *AACL Bioflux* ۲۰۱۵; ۸(۳): ۴۳۸-۴۴۴.
 ۱۴. Asgarzadeh S, Rostamian R, Faez E, **Maleki A**, Daraei H. Biosorption of Pb(II), Cu(II), and Ni(II) ions onto novel low cost *P. eldarica* leaves-based biosorbent: isotherm, kinetics, and operational parameters investigation. *Desalination and Water Treatment* ۲۰۱۶, ۵۷: ۱۴۵۴۴-۱۴۵۵۱.
 ۱۵. **Maleki A**, Safari M, Shahmoradi B, Zandsalimi Y, Daraei H, Gharibi F. Photocatalytic degradation of humic substances in aqueous solution using Cu-doped ZnO nanoparticles under natural sunlight irradiation. *Environmental Science and Pollution Research*. ۲۰۱۵; ۲۲:۱۶۸۷۵-۱۶۸۸۰.
 ۱۶. Sadeghi Sh, Shahmoradi B, **Maleki A**. Estimating Methane Gas Generation Rate from Sanandaj City Landfill Using LANDGEM Software. *Research Journal of Environmental Sciences*, ۲۰۱۵; ۹: ۲۸۰-۲۸۸.
 ۱۷. Rahmani R, Shahmoradi B, **Maleki A**. Bioassay Testing the Toxicity of Nano-Structure Polymer (PAMAM G_۲) as Coagulant Aid in Water Treatment. *Research Journal of Environmental Toxicology*, ۲۰۱۵; Inpress.
 ۱۸. Erami S, Shahmoradi B, **Maleki A**. Municipal Solid Waste Management in Mahabad Town, Iran. *Journal of Environmental Science and Technology*, ۲۰۱۵; ۸: ۲۱۶-۲۲۴.
 ۱۹. Darvishi Cheshmeh Soltani R, Safari M, **Maleki A**, Godini H, Pordel MA. Application of Nano-Crystalline Iranian Diatomite in Immobilized Form for Removal of a Textile Dye. *Journal of Dispersion Science and Technology*. ۲۰۱۶; ۳۷: ۷۲۳-۷۳۲.

۲۰. Maleki A, Ahmadi Jebeli M, Hayati B, Daraei H, Gharibi F. Microbial deactivation properties of generation γ and ξ poly(amidoamine) dendrimers on common bacteria found in the aqueous environment. *Antimicrobial Resistance and Infection Control* ۲۰۱۵, ξ (Suppl ۱): P۳۵.
۲۱. **Maleki A**, Ahmadi Jebeli M, Kalantar E, Daraei H, Davari B, Safari M. Inactivation of *Pseudomonas aeruginosa* by zinc oxide nanoparticles in aqueous solution. *Antimicrobial Resistance and Infection Control* ۲۰۱۵, ξ (Suppl ۱): I۶.
۲۲. **Maleki A**, Daraei H, Khodaei F, Aghdam K, Faez E. Direct blue ۷۱ dye removal probing by potato peel-based sorbent: applications of artificial intelligent systems, *Desalination and Water Treatment* ۲۰۱۶; ۵۷: ۱۲۲۸۱-۱۲۲۸۶.
۲۳. Ebrahemzadih M, **Maleki A**, Darvishi E, Meimanat Abadi M, Dehestaniathar S. The analysis of process accidents due to risks in the petrochemical industries—the case study of radiation intensity determination proportional to distance from tank level. *Open Journal of Safety Science and Technology* ۲۰۱۵, ۵: ۲۱-۲۶.
۲۴. Darvishi E, **Maleki A**, Dehestaniathar S, Ebrahemzadih M. Effect of STOP Technique on Safety Climate in a Construction Company. *J Res Health Sci.* ۲۰۱۵; ۱۵(X):xxx-xxx
۲۵. **Maleki A**, Azadi NA, Mansouri B, Majnoni F, Rezaei Z, Gharibi F. Health risk assessment of trace elements in two fish species of Sanandaj Gheshlagh Reservoir, Iran. *Toxicology and Environmental Health Sciences* ۲۰۱۵, ۷(۱): ۴۳-۴۹.
۲۶. Shahmoradi B, **Maleki A**, Byrappa K. Removal of Disperse Orange ۲۵ Using in situ Surface Modified Iron Doped TiO₂ Nanoparticles. *Desalination and Water Treatment* ۲۰۱۵, ۵۳: ۳۶۱۵-۳۶۲۲.
۲۷. **Maleki A**, Hayati B, Naghizadeh M, Sang W. Joo. Adsorption of hexavalent chromium by metal organic frameworks from aqueous solution. *Journal of Industrial and Engineering Chemistry*, ۲۰۱۵; ۲۸: ۲۱۱-۲۱۶.
۲۸. **Maleki A**, Mahvi AH, Daraei H, Rezaei R, Meihami N, Mohammadi K, Zandi Sh. Influence of selected anions on fluoride removal in Electrocoagulation/electroflotation. *Fluoride* ۲۰۱۵; ۴۸(۱): ۲۳-۳۳.
۲۹. **Maleki A**, Pajootan E, Hayati B. Ethyl acrylate grafted chitosan for heavy metal removal from wastewater: Equilibrium, kinetic and thermodynamic studies. *Journal of the Taiwan Institute of Chemical Engineers* ۲۰۱۵; ۱۵۷: ۳۱-۳۸.
۳۰. **Maleki A**, Nasser S, Hadi M, Solaimany Aminabad M. Discoloration of aqueous Direct Blue ۷۱ solutions using UV/H₂O₂/Nano-SiO₂ process. *International Journal of Environmental Research*. ۲۰۱۵; ۹(۲):۵۴۵-۵۵۲.

۳۱. **Maleki A**, Daraei H, Akhgar E, Amini Sh, Zandsalimi Y, Shahsavari S. Assessment of household reverse osmosis system in arsenic, lead, copper, nitrate, chloride, and sulfate removal in real and synthetic samples: output water quality and efficiency. *J Adv Environ Health Res* ۲۰۱۴, ۲(۳): ۱۶۰-۱۷۳.
۳۲. **Maleki A**, Ghahremani E, Zandsalimi Y, Teymouri P, Daraei H, Rezaee R, Bahmani P, Davari B. Temporal and spatial variation of drinking water quality in a number of villages in Divandareh, Iran: With emphasis on fluoride distribution. *J Adv Environ Health Res* ۲۰۱۴, ۲(۳): ۱۷۴-۱۸۰.
۳۳. **Maleki A**, Daraei H, Amir Hosseini E, Azizi Sh, Faez E, Gharibi F. Azo Dye DB۷۱ Degradation Using Ultrasonic-Assisted Fenton Process: Modeling and Process Optimization. *Arabian Journal for Science and Engineering*, ۲۰۱۵, ۴۰: ۲۹۵-۳۰۱.
۳۴. **Maleki A**, Amini H, Nazmara Sh, Zandi Sh, Mahvi AH. Spatial Distribution of Heavy Metals in Soil, Water, and Vegetables of Farms in Sanandaj, Kurdistan, Iran. *Journal of Environmental Health Science & Engineering* ۲۰۱۴, ۱۲. ۱۳۶.
۳۵. Salehi K, Daraei H, Teymouri P, **Maleki A**. Hydrothermal synthesis of surface-modified copper oxide-doped zinc oxide nanoparticles for degradation of acid black ۱: Modeling and optimization by response surface methodology. *J Adv Environ Health Res* ۲۰۱۴; ۲(۲): ۵۴-۶۲.
۳۶. Ghahramani E, Maleki A, Kohzadi Sh, Loqmani H, Noori Sephr M, Zarrabi M, Ramazanzadeh R. Microbial pollution of hand washing liquids in Kurdistan University hospitals. *Int J Enteric Pathog.* ۲۰۱۴ July; ۲(۱): e۱۳۹۲۷.
۳۷. Hayati B, Arami M, **Maleki A**, Pajootan E. Thermodynamic properties of dye removal from colored textile wastewater by poly (propylene imine) dendrimer. *Desalination and Water Treatment* ۲۰۱۴, Inpress.
۳۸. Hosseini G, **Maleki A**, Amini H, Mohammadi Sh, Hassanvand MS, Giahi O, Gharibi F. Health impact assessment of particulate matter in Sanandaj, Kurdistan, Iran. *J Adv Environ Health Res* ۲۰۱۴; ۲(۱): ۵۴-۶۲.
۳۹. Daraei H, **Maleki A**, Mahvi AH, Zandsalimi Y, Alaei L, Gharibi F. (۲۰۱۴) Synthesis of ZnO nano-sono-catalyst for degradation of reactive dye focusing on energy consumption: operational parameters influence, modeling, and optimization. *Desalination and Water Treatment*, ۵۲ (۳۴-۳۶): ۶۷۴۵-۶۷۵۵.
۴۰. Maleki A, Teymouri P, Rahimi R, Rostami M, Amini H, Daraei H, Bahmani P, Zandi S. Assessment of chemical quality of drinking water in rural area of Qorveh city, Kurdistan province, Iran. *J Adv Environ Health Res* ۲۰۱۴, ۲(۱): ۲۲-۹.

٤١. Rezaee R, **Maleki A**, Jafari A, Mazloomi S, Zandsalimi Y, Mahvi A H. Application of response surface methodology for optimization of natural organic matter degradation by UV/H₂O₂ advanced oxidation process. *Journal of Environmental Health Science & Engineering* ٢٠١٤, ١٢: ٦٧.
٤٢. Alavi N, Mesdaghinia A-R, Naddafi K, Mohebbali G, Daraei H, **Maleki A**, Alaei L. Biodegradation of petroleum hydrocarbons in a soil polluted sample by oil-based drilling cuttings. *Soil and Sediment Contamination*, ٢٠١٤, ٢٣ (٥): ٥٧٦-٥٩٧.
٤٣. Kalantar E, Kabir K, Gharibi F, Hatami S, **Maleki A**. Effect and properties of surface-modified copper doped ZnO nanoparticles (Cu:ZnO NPs) on killing curves of bacterial pathogens. *J Med Bacteriol*. ٢٠١٣; ٢ (١): ٢٠-٢٦.
٤٤. **Maleki A**, Gharibi F, Alimohammadi M, Daraei H, Zandsalimi Y. Concentration levels of heavy metals in irrigation water and vegetables grown in peri-urban areas of Sanandaj, Iran. *J Adv Environ Health Res* ٢٠١٣; ١(٢): ٨١-٨٨.
٤٥. Solaimany Aminabad M, **Maleki A**, Hadi M, Shahmoradi B. Application of artificial neural network (ANN) for the prediction of water treatment plant influent characteristics. *J Adv Environ Health Res* ٢٠١٣; ١(٢): ٨٩-١٠٠.
٤٦. Hayati B, Mahmoodi N. M, **Maleki A**. Dendrimer-titania nanocomposite: synthesis and dye-removal capacity. *Research on Chemical Intermediates*, Inpress. DOI ١٠.١٠٠٧/s١١١٦٤-٠١٣-١٤٨٦-٤.
٤٧. Mahmoodi N. M, Sadeghi U, **Maleki A**, Hayati B, Najafi F. Synthesis of cationic polymeric adsorbent and dye removal isotherm, kinetic and thermodynamic. *Journal of Industrial and Engineering Chemistry*, ٢٠١٤; ٢٠: ٢٧٤٥-٢٧٥٣.
٤٨. **Maleki A**, Daraei H, Alaei L, Faraji A. Comparison of QSAR models based on combinations of genetic algorithm, stepwise multiple linear regression, and artificial neural network methods to predict k_d of some derivatives of aromatic sulfonamides as carbonic anhydrase II inhibitors. *Russian Journal of Bioorganic Chemistry*. ٢١٠٤; ٤٠ (١): ٧٠-٨٤.
٤٩. **Maleki A**, Shahmoradi B, Daraei H, Kalantar E. Assessment of ultrasound irradiation on inactivation of gram negative and positive bacteria isolated from hospital in aqueous solution. *J Adv Environ Health Res* ٢٠١٣; ١(١): ٩-١٤.
٥٠. **Maleki A**, Daraei H, Khodaei F, Bayazid Aghdam K, Rezaee R, Naghizadeh A. Investigation of potato peel based bio-sorbent in reactive dye removal: ANN modeling and GA optimization. *J Adv Environ Health Res* ٢٠١٣; ١(١): ٢١-٢٨.

۵۱. Bahmani P, **Maleki A**, Ghahramani E, Rashidi A. (۲۰۱۳) Decolorization of the dye reactive black ۵ using Fenton oxidation. *African journal of Biotechnology*, ۱۲(۲۶): ۴۱۱۵-۴۱۲۲.
۵۲. Shahmoradi B, Byrappa K, **Maleki A**. (۲۰۱۳) Surface Modification of ZnO and TiO₂ Nanoparticles under Mild Hydrothermal Conditions. *Journal of Materials Science and Engineering A*, ۳ (۱): ۵۰-۵۶.
۵۳. Ebrahimi R, **Maleki A**, Shahmoradi B Daraei H, Mahvi AH, Barati AH, Eslami A. (۲۰۱۳) Elimination of arsenic contamination from water using chemically modified wheat straw. *Desalination and Water Treatment*, ۲۰۱۳; ۵۱ (۱۰-۱۲): ۲۳۰۶-۲۳۱۶.
۵۴. **Maleki A**, Daraei H, Shahmoradi B, Razee S, Ghobadi N. Electrocoagulation efficiency and energy consumption probing by artificial intelligent approaches. *Desalination and Water Treatment*, ۲۰۱۴; ۵۲ (۱۳-۱۵): ۲۴۰۰-۲۴۱۱.
۵۵. Amin MM, Safari M, **Maleki A**, Ghasemian M, Rezaee R, Hashemi H. (۲۰۱۲) Feasibility of humic substances removal by enhanced coagulation process in surface water. *Int J Env Health Eng*, ۱(۳): ۱-۷.
۵۶. Shahmoradi B, Negahdary M, **Maleki A**. (۲۰۱۲) Hydrothermal Synthesis of the Surface-Modified, Manganese-Doped TiO₂ Nanoparticles for Photodegradation of Methylene Blue. *Environmental Engineering Science*, ۲۹ (۱۱): ۱۰۳۲-۱۰۳۷.
۵۷. **Maleki A**, Daraei H, Alaei L, Abasi L, Izadi A. (۲۰۱۲) Dye Removal Probing by Electrocoagulation Process: Modeling by MLR and ANN Methods. *Pakistan Journal of Chemical Engineering*, ۳۴(۵): ۱۰۵۶-۱۰۶۹.
۵۸. Nasri F, Daraei H, Hatami T, **Maleki A**. (۲۰۱۲) Phase Equilibrium of Binary System Carbon Dioxide - Methanol at High Pressure Using Artificial Neural Network. *Pakistan Journal of Chemical Engineering*, ۳۴(۵): ۱۰۷۰-۱۰۷۷.
۵۹. Khodavaisy S, **Maleki A**, Hossainzade B, Rezai S, Ahmadi F, Validi A, Rashidi A, Ghahramani E. (۲۰۱۲) Occurrence of fungal contamination in pistachio and peanut samples from retail shops in Sanandaj province, Iran. *African Journal of Microbiology Research* ۶(۳۹): ۶۷۸۱-۶۷۸۴.
۶۰. Hadi M, McKay G, Samarghandi MR, **Maleki A**, Solaimany Aminabad M. (۲۰۱۲) Prediction of optimum adsorption isotherm: comparison of Chi-square and Log-likelihood statistics. *Desalination and Water Treatment*, ۴۹: ۸۱-۹۴.
۶۱. **Maleki A**, Shahmoradi B. (۲۰۱۲) Solar degradation of Direct Blue ۷۱ using surface modified iron doped ZnO hybrid nanomaterials. *Water Science & Technology*, ۶۵(۱۱), ۱۹۲۳-۱۹۲۸.

٦٢. **Maleki A**, Mahvi AH, Shahmoradi B. (٢٠١١) Hydroxyl Radical-Based Processes for Decolourization of Direct Blue ٧١: A Comparative Study. *Asian Journal of Chemistry*, ٢٣(١٠): ٤٤١١-٤٤١٥.
٦٣. Shahmoradi B, **Maleki A**, Byrappa K. (٢٠١١) Photocatalytic degradation of Amaranth and Brilliant Blue FCF dyes using in situ modified tungsten doped TiO₂ hybrid nanoparticles. *Catal. Sci. Technol.*, ١, ١٢١٦-١٢٢٣.
٦٤. **Maleki A**, Mahvi AH, Zazouli MA, Izanloo H, Barati AH. (٢٠١١) Aqueous Cadmium Removal by Adsorption on Barley Hull and Barley Hull Ash. *Asian Journal of Chemistry*, ٢٣(٣): ١٣٧٣-١٣٧٦.
٦٥. **Maleki A**, Mahvi AH, Ebrahimi R, Zandsalimi Y. (٢٠١٠) Study of photochemical and sonochemical processes efficiency for degradation of dyes in aqueous solution. *Korean Journal of Chemical Engineering*, ٢٧(١): ٧٩-٨٢.
٦٦. Barati AH, **Maleki A**, Alasvand Zarasvand M. (٢٠١٠) Multi-trace elements level in drinking water and the prevalence of multi-chronic arsenical poisoning in residents in the west area of Iran. *Science of the Total Environment*, ٤٠٨: ١٥٢٣-١٥٢٩.
٦٧. Zazouli MA, Mohseni A, **Maleki A**, Saberian M, Izanloo H. (٢٠١٠) Determination of Cadmium and Lead Contents in Black Tea and Tea Liquor from Iran. *Asian Journal of Chemistry*, ٢٢(٢): ١٣٨٧-١٣٩٣.
٦٨. Zazouli MA, **Maleki A**, Izanloo H. (٢٠١٠) Assessment of Raw Leachate Characteristics and Its Pretreatment by Lime. *Asian Journal of Chemistry*, ٢٢(٨): ٦١٥٥-٦١٦٣.
٦٩. Maleki A, Mahvi AH, Ebrahimi R, Khan J. (٢٠١٠) Evaluation of barley straw and its ash in removal of phenol from a aqueous system. *World Applied Sciences Journal*, ٨(٣): ٣٦٩-٣٧٣.
٧٠. Mahvi AH, **Maleki A**. (٢٠١٠) Photosonochemical degradation of phenol in water. *Desalination and Water Treatment*, ٢٠: ١٩٧-٢٠٢.
٧١. **Maleki A**, Zazouli MA, Izanloo H, Rezaee R. (٢٠٠٩) Composting Plant Leachate Treatment by Coagulation-Flocculation Process. *American-Eurasian Journal of Agricultural and Environmental Sciences*, ٥(٥): ٦٣٨-٦٤٣.
٧٢. Mahvi AH, **Maleki A**, Rezaee R, Safari M. (٢٠٠٩) Reduction of humic substances in water by application of ultrasound waves and ultraviolet irradiation. *Journal of Environmental Health Science and Engineering*, ٦(٤): ٢٣٣-٢٤٠.

۷۳. **Maleki A**, Alasvand Zarasvand M. (۲۰۰۸) Heavy metals in selected edible vegetables and estimation of their daily intake in Sanandaj, Iran. Asian journal of tropical medicine and health, ۳۹(۲): ۳۳۰-۳۴۰.
۷۴. **Maleki A**, Mahvi AH, Mesdaghinia A, Naddafi K. (۲۰۰۷) Degradation and toxicity reduction of phenol by ultrasound waves. Bulletin of the Chemical of Society of Ethiopia, ۲۱(۱): ۳۳-۳۸.
۷۵. **Maleki A**, Zazouli MA, Shokrzaded M. (۲۰۰۷) Investigation of Cadmium content in Iranian rice (*Oryza Sativa*):Its weekly intake. Journal of Applied Science and Environmental Management, ۱۱(۱): ۱۰۱-۱۰۵.
۷۶. **Maleki A**, Khadem Erfan MB, SeiedMohammadi A, Ebrahimi R. (۲۰۰۷) Application of Commercial Powdered Activated Carbon for Adsorption of Carboic Acid in Aqueous Solution. Pakistan Journal of Biological Sciences, ۱۰(۱۴): ۲۳۴۸-۲۳۵۲.
۷۷. Mahvi AH, **Maleki A**, Alimohamadi M, Ghasri A. (۲۰۰۸) Photo-oxidation of phenol aqueous solution: toxicity of intermediates. Korean Journal of Chemical Engineering, ۲۴(۱): ۷۹-۸۲.
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