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Ghorban Asgari

- Ph.D in Environmental Health Engineering
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Education:

- PhD of Environmental Health Engineering, Tarbiat Modares Medical Sciences University, Tehran, Iran (2005 – 2009).
- MSc of Environmental Health Engineering, School of Public Health, Isfahan Medical Sciences University, Isfahan, Iran (2001 – 2003).
- BSc of Environment Health Engineering, Iran Medical Sciences University, Tehran, Iran (1997 – 1999).

Honors and Awards

- Health Ministry Scholarship for advance education toward a Ph.D in Environmental Health Engineering in Tarbiat Modares Medical Sciences University (2005)
- Ranking second in the National Examination, taken by Ministry of Health for Ph.D studies in Environmental Health Engineering (2005)

Experiences

Research Experience

- Heterogeneous catalytic ozonation
- Advanced oxidation process (AOP)
- Biological of water treatment
- Toxicity evaluation of waste wastewater
- Adsorption process

- Municipal and industrial wastewater treatment
- Environmental Impact Assessment of petrochemical industry
- Heavy metals pollution of soil, irrigation water and agricultural crops (vegetables)

Teaching Experience

- Chemical water and wastewater
- Principles of water treatment
- Wastewater treatment
- Water distribution systems
- Water quality and sanitation of rivers
- Wastewater and runoff collection systems designing

Work Experience

- Faculty at Hamadan Medical Sciences University
- Manager of project “Survey of toxic trace elements of Cd,Cr,Pb and Ni in cultured ponds fishers of khoramabad city”
- Expert Consulting Engineers Tarh Afra, Isfahan ,Iran
- Consultant of project of survey of using aerated lagoon for wastewater treatment in Isfahan (5 project)
- Group Director of Environmental Health in Lorestan University of Medical Science
- Manager of project of survey of dye removal by mixed magnesium chloride and alum in textile industry wastewater”
- Manager of project of survey of Kinetic and isotherm of hexavalent Chromium adsorption onto nano hydroxyapatite
- Manager of project of survey of Evaluation of performance egg shell as a natural adsorbent for removal of cyanide from aqueous solutions
- Manager of project of survey of Investigation of performance snail shell powder in removal of fluoride from aqueous solution
- Manager of project of Survey on performance of catalytic ozonation for pentachlorophenol (PCP) removal from aqueous solutions by activated carbon

Research Interest

- Heterogeneous catalytic ozonation

- Ozonation processes in water and wastewater
- Advanced oxidation process (AOP)
- Water treatment
- Municipal and industrial wastewater treatment
- Biological of water treatment

Internal Presentation:

1- Abdolmotaleb S, Movahdian, M, **Asgari G**, The effect of operational parameters on photochemical degradation and mineralization of 4-chlorophenol in industrial wastewater

. 12rd international congress of Environmental Health Engineering. 2009, Tehran, Iran. (Oral presentation)

2-Asgari G, Ghanizadeh GH, Survey of performance modified zeolite with hexadecyltrimethylammonium bromide for removal of humic acids from aqueous solutions. 12rd international congress of Environmental Health Engineering. 2009, Tehran, Iran. (Poster presentation)

3- Ghanizadeh GH, **Asgari G**, Iron removal using an integrated aerated granular filter. 12rd international congress of Environmental Health Engineering. 2009. Tehran, Iran. (Poster presentation)

4-Asgari G, Mortazavi SB, Kinetic study of methylene blue adsorption from aqueous solution with bone charcoal. 11rd international congress of Environmental Health Engineering. 2008, Zahedan, Iran. (Poster presentation)

5-Asgari G, Ashrafi D, Study of toxic trace elements of Cd, Cr, Pb and Ni in cultured ponds fishers of khoramabad city. 10rd international congress of Environmental Health Engineering. 2007. Hamadan, Iran. (Oral presentation)

6-Ashrafi D, **Asgari G**, Survey of water resources quality of khormabad city. 9rd international congress of Environmental Health Engineering .2006, Isfahan, Iran. (Postre presentation)

7-Asgari G , Bina B, Toxicity evaluation of wastewater effluents using Daphnia Magna. 8rd international congress of Environmental Health Engineering. 2005, Tehran, Iran. (Oral presentation)

8- **Asgari G**, Bina B, Survey of dye removal by mixed magnesium chloride and alum in textile industry wastewater. 6rd international congress of Environmental Health Engineering. 2004, Sary, Iran. (Oral presentation)

International Presentation:

- 1- Bina B, **Asgari G**, Biototoxicity evaluation of Isfahan wastewater effluents using *Daphnia Magna* , International Conference on Toxicology to be held on July 11-16, 2004 .Tampere, Finland. (Poster presentation)
- 2- **Asgari G**, Mortazavi SB, Bone char and ozone in a heterogeneous catalytic ozonation process to degrade humic acids in aqueous solutions (2009). (Oral presentation)

Publication:

A: Books published in Persian language:

1. **Asgari G**, Jalilzade A, Wastewater treatment (translation)

B: Papers published in Persian language:

1. **Asgari G**, Ghanizadeh GH, Removal of methylene blue dye from synthetic wastewater with bone char. Journal of health and environment .No 2. 2019.
2. **Asgari G**, Kamari B, Study of toxic trace elements of Cd, Cr, Pb and Ni in cultured ponds fishers of khoramabad city. Journal of yafte-e. Lorestan University of Medical Sciences. NO 19. 2017.
3. Bina B., **Asgari G**. Survey of dye removal by mixed magnesium chloride and alum in textile industry wastewater. Journal of water and wastewater. No 47.2015.
4. **Asgari G**, Kamari B, Survey of toxicity of wastewater by *Daphnia Magna*. Journal of yafte-e Lorestan university of medicine sciences. No 19.2014
5. **Asgari G**, Sidmohammadi A 2, Ebrahimi A, Performance evaluation of catalytic ozonation process with pumice in removal of humic acids from aqueous solutions. Journal of Health System Research No 2. 2013.
6. **Asgari G**, Sidmohammadi A 2, Ebrahimi A, Study on phenol removing by using modified zolite (Clinoptilolite) with FeCl₃ from aqueous solutions, Journal of Health System Research No 2. 2011.
7. **Asgari G**, Sidmohammadi A 2, Ebrahimi A, 4-Chlorophenol oxidation combined with the application of advanced oxidation technology and the modified microwave in chemical and petrochemical wastewater industry. Journal of Health System Research No 2. 2011.
8. Rahmani A.R, Solaimany Aminabad M., **Asgari G**, Barjasteh Askari F, Removal of Nitrate by MgCl₂-Modified Pumice and Zero-Valent Magnesium from Aqueous Solutions, Journal of Health and Environment, NO. 4, 2011
9. **Asgari Gh**. Ghanizadeh Gh, Seyd Mohammadi A, Adsorption of humic acid from aqueous solutions onto modified pumice with hexadecyl trimethyl ammonium bromide, J Babol Univ Med Sci, No 14,2011

10. Rahmani A.R, **Asgari G**, Investigation on performance of copper modified pumice in removal of phenol from aqueous solutions. J Hamadan University Medicine Science No 4,2010

C: Papers published in English language:

1. **Ghorban Asgari** ,Javad Faradmal, Hassan Zolghadr Nasab, Hamied Ehsani, Catalytic ozonation of industrial textile wastewater using modified C-doped MgO eggshell membrane powder, *Advanced Powder Technology*, 30 (2019) 1297–1311
2. **Asgari**, Alireza Dayari, Maryam Ghasemi, Abdolmotaleb Seid-mohammadi,Vinod Kumar Gupta, Shilpi Agarwal, Efficient fluoride removal by preparation, characterization of pyrolysis bone: Mixed level design experiment and Taguchi L₈ orthogonal array optimization, *Journal of Molecular Liquids* 275 (2019) 251–264
3. Abdolmotaleb Seidmohammadi, Raheleh Amiri, Javad Faradmal, Mostafa Lili, Ghorban Asgari *(**Corresponding Author**), UVA-LED assisted persulfate/nZVI and hydrogen peroxide/nZVI for degrading 4-chlorophenol in aqueous solutions *Korean Journal of Chemical Engineering* 35 (3), 694-701
4. Bahman Ramavandi, Ghorban Asgari*(**Corresponding Author**), Comparative study of sun-dried and oven-dried Malva sylvestrisbiomass for high-rate Cu(II) removal from wastewater, *Process Safety and Environmental Protection* 116 , 61–73
5. Zahra Sharifi¹, Mohammad Taghi Samadi¹, Abdolmotaleb Seid-Mohammadi², Ghorban Asgari*(**Corresponding Author**), Removal of p-chlorophenol from aqueous solution using ultraviolet/zerovalent-iron (UV/ZVI)/persulfate process, *Journal of Advances in Environmental Health Research*; 4(1): 42-8.
6. **Ghorban Asgari**, Sahar Ghalehaskar , Vahid Kazemi Moghaddam. Monitoring and health risk assessment of fluoride in drinking water in Babol, Mazandaran Province, Iran, *Desalination and Water Treatment*
7. Bina B., **Asgari Gh**,(2005).Toxicity evaluation of wastewater effluents using Daphnia Magna. *Iranian journal of environmental health science and engineering*, 2: 1-
8. Mortazavi SB, **Asgari Gh**, (2009) .Bone char and ozone in a heterogeneous catalytic ozonation process to degrade humic acids in aqueous solutions.
9. Gh. Ghanizadeh Gh. **Asgari**. (2011) Adsorption kinetics and isotherm of methylene blue and its removal from aqueous solution using bone charcoal.
- 10.S.B Mortazavi, **Asgari Gh**. (2010) Degradation of humic acids through heterogeneous catalytic ozonation with bone charcoal. *Reaction Kinetics, Mechaisms and catalysis*.volume 100, 471-485.

11. **Asgari Gh**, Roshani Bh. Ghanizadeh G, The investigation of kinetic and isotherm of fluoride adsorption onto functionalized pumice stone. *Journal of Hazardous Materials* 217– 218 (2012) 123– 132
12. Ghanizadeh Gh, **Asgari Gh**, M.T.Ghaneian. Arsenic in drinking water: health disorder, nutrition factors and elimination processes, *Middle-East journal of scientific research* 5 (6) 483-491.2010
13. Ghanizadeh Gh, **Asgari Gh**. KINETICS AND ISOTHERM STUDIES OF HEXAVALENT CHROMIUM ADSORPTION FROM WATER USING BONE CHARCOAL *Fresenius Environmental Bulletin*, 21–No 5. 2012
14. Marzieh Bagheri, Ghodrattollah Roshanaei, **Ghorban Asgari***(**Corresponding Author**) Application of carbon-doped nano- magnesium oxide for catalytic ozonation of textile wastewater: Fractional factorial design and optimization *Desalination and Water Treatment*