G. Moussavi Curriculum Vita - 1 -



Gholamreza Moussavi

Ph.D, Professor Department of Environmental Health Engineering Tarbiat Modares University, Tehran, Iran

E-mail: moussavi@modares.ac.ir

Tel: +98 21 8288 3827 Fax: +98 21 8288 4580

h-index: 25 (Scopus: 2018/30/07)

• Citations: 2115 total citations by 1705 documents

Personal information:

Name and surname: Gholamreza Moussavi

Date of birth: 22 May 1975

Marital: Married

Educational Background:

Degree	Major	Department	Year
Sabbatical leave	Chemical Engineering	Chemical & Biochemical Engineering, University of British Columbia, Canada	2005
Ph.D	Environmental Health Engineering	Environmental Health Engineering, TUMS	2001-2005
M.Sc	Environmental Health Engineering	Environmental Health Engineering, TUMS	1999-2001
B.Sc	Environmental Health	Environmental Health Engineering, Shahid Beheshti University	1996-1999

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TEACHING EXPERIENCES

I have taught a number of course to Ph.D. and M.Sc. students in Environmental Health Engineering and Environmental Engineering.

2005-present Professor, Dept. of Environmental Health Engineering, Tarbiat Modares University

- Modern water treatment systems: Principles and design (Ph.D students)
- Modern wastewater treatment systems: Principles and design (Ph.D students)
- Wastewater sludge treatment (Ph.D students)
- Advanced air pollution control systems (Ph.D students)
- Hazardous waste management (Ph.D students)
- Wastewater sludge processing (Ph.D students)
- Water treatment plant design (M.Sc. students)
- Wastewater treatment plant design (M.Sc. students)
- Industrial wastewater treatment, (M.Sc. students)
- Air pollution control (M.Sc., students)

2005 Lecturer, Department of Environmental Engineering, Ahvaz University

- Atmospheric Pollution, (M.Sc. class of 10 students)
- Air Pollutants Dispersion and its Control, (M.Sc. class of 10 students)

2002-2005 Lecturer, Department of Environmental Health Engineering, Azad University

- Wastewater Treatment (B.Sc. class of 52 students)
- Water Treatment, (B.Sc. class of 48 students)

Instructor, Workshop on impact of untreated wastewater discharge, Tehran

2003-2004 Lecturer, Department of Environmental Health Engineering, Tehran University of Medical University

• Wastewater Treatment, (B.Sc. class of 32 students)

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RESEARCH EXPERIENCES

2005-present

Department of Environmental Health Engineering, Tarbiat Modares University, Tehran, Iran

- Advanced oxidation processes for removal of recalsitrants
- Novel biological processes for removal of xenobiotics from wastewater
- Advanced biological treatment processes
- Nanotechnology for degradation of environmental contaminants
- Catalytic ozonation for removal of micropolutants from liquid and gas streams
- Biofiltration and biotrickling filtration of VOCs and odorants
- Ozonation of excess activated sludge
- Saline wastewater Treatment

2005

Department of Chemical and Biological Engineering, University of British Columbia, Vancouver, Canada

• Innovated and Investigated a novel photobioreactor (UV-Biofiltration) for Biodegradation of recalcitrant air pollutants

2001-2005

Department of Environmental Health Engineering, Tehran University of Medical Sciences

- Designed and investigated a novel bioreactor (UA/AFB) for complete treatment of municipal wastewater treatment
- Investigated performance of UA/AFB reactor for industrial wastewater treatment
- Evaluated performance of an Ultraviolet Germicidal Irradiation reactor for indoor air disinfection
- Developed and set-up the H₂S sampling and measurement method from waste air streams
- Designed and evaluated a novel bioscrubber for H₂S removal from waste air stream
- Investigated use of H₂O₂ as an oxidant for H₂S removal from waste air emission in a chemical scrubber
- Conducted a comparative study on collection and treatment alternatives for part 22 Tehran city
- Studied the performance of UV photoreactor for disinfecting effluent air from a bioscrubber treating H₂S gas stream
- Performed field work on optimization of an activated sludge process
- Studied the effect of lime for sewage sludge stabilization
- Provided scientific consulting to various companies on water and wastewater treatment plant design

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- Provided scientific consulting to M.Sc. students in environmental engineering on their thesis
- Conducted lab work on combined advanced oxidation and biological processes for pollution control
- Organized field visits to various wastewater treatment plants for B.Sc. students in environmental engineering

1999-2001 Department of Environmental Health Engineering, Tehran University of Medical Sciences

- Investigated the effects of Lyophilization process on kinetic coefficients of activated sludge process
- Evaluated the effects of Lyophilization process on characteristics and microbial quality of activated sludge process
- Extracted and studied the chitosan as a coagulant in water treatment

1998 Performed field sampling from waste streams

PATENTS

- Innovated the UV-Photobiofiltration for treatment of waste air containing recalcitrant pollutants (*patent No. 33334, Iran*)
- Up flow Anaerobic/Aerobic Fixed Bed (UA/AFB) combined reactor for municipal and industrial wastewater treatment (*patent No. 33333*, Iran)

ANALYTICAL SKILLS

- Gas chromatograph/Mass spectrophotometery (GC-MS)
- Spectrophotometer
- TOC and BDOC analyzer
- High performance liquid chromatograph (HPLC)
- Fourier transform infrared (FT-IR) spectrometer
- Air, water and wastewater microbial examination
- Air, water and wastewater sampling and physico-chemical analysis

COMPUTER SKILLS

- Microsoft Windows and office,
- Extensive experience with Excel (graphing, programming, and statistical data analysis)
- SPSS (statistical data analysis)

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PROFESSIONAL TRAINING COURSES / WORKSHOPS

- Teaching Methods Training Workshop, 2004
- Research Methods Training Workshop, 2003
- Laboratory Safety Course, 2002
- Technology Tour, Water and wastewater treatment plants, Petrochemical industry, Composting Plant, and 5 research center, Iran, 2002
- Analytical instruments training course, 2001

HONOURS AND AWARDS

2015	<i>Distinguished Researcher in Research</i> , among all researchers in IRAN held by the Iran Association of Environmental Health (IAEH) and received award and the appreciation letter from the Head of IAEH.
2014	Distinguished Researcher in Environmental Biotechnology, among all researchers in IRAN held by the Iran Association of Biotechnology
2013	Razi International Award, <i>Distinguished Researcher in Research & Technology</i> , among all researchers in IRAN held by the Ministry of Health and received award and the appreciation letter from the President of Iran.
2005	Razi International Award Distinguished Researcher in Research & Technology, among all researchers in IRAN held by the Ministry of Health and received award and the appreciation letter from the President of Iran
2003	The Honored First-Class Ph.D. Candidate among all Ph.D. students in IRAN based on Excellence in education and research, received award and the appreciation letter from the President of Iran
2002	Outstand Graduate Student award in education, Tehran University of Medical Sciences
2001	First Rank in Ph.D. Entrance Exam among all applicants throughout the country
1999	First Rank in M.Sc. Entrance Exam among all applicants throughout the country

MEMBERSHIPS

- *Editorial Board Member*, Research Journal of Applied Sciences, Asian Network for Scientific Information
- Member of Iranian Association of Environmental Health (IAEH), IRAN
 Member of Environmental Engineering Scientists, IRAN

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REVIEWER FOR PEER REVIEWED JOURNALS

- 1. Applied Catalysis B: Environmental
- 2. Bioresource Technology
- 3. Water Research
- 4. Environmental Science and Technology
- 5. Environmental Progress & Sustainable Energy
- 6. Chemosphere
- 7. Journal of Hazardous Materials
- 8. Chemical Engineering Journal
- 9. Biochemical Engineering Science
- 10. Desalination
- 11. Environmental Engineering and Management Journal
- 12. Process Biochemistry
- 13. Environmental Technology
- 14. Clean air, soil and water
- 15. Iranian Journal of Environmental Health Science & Engineering
- 16. Iranian Journal of Biotechnology
- 17. Iranian Journal of Chemistry and Chemical Engineering
- 18. Iranian Journal of Chemical Engineering
- 19. African Journal of Environmental Science and Technology
- 20. Journal of Environmental Chemistry and Ecotoxicology
- 21. International Journal of Industrial Chemistry
- 22. International Journal of Environmental Science and Technology
- 23. Journal of Environmental Management
- 24. Mesoporous and Microporous Materials
- 25. Journal of the Iranian Chemical Society
- 26. Desalination and Water Treatment
- 27. Ecotoxicology and Environmental Safety
- 28. Environmental Engineering and Management Journal
- 29. Arabian Journal of Chemistry
- 30. Journal of Environmental Chemical Engineering
- 31. Journal of Toxicology and Environmental Health Sciences
- 32. Bioprocess and Biosystems Engineering
- 33. World Applied Sciences Journal
- 34. Applied Surface Science

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- 35. Asia-Pacific Journal of Chemical Engineering
- 36. Materials Research Bulletin
- 37. Environmental Science and Pollution Research
- 38. Water, Air, & Soil Pollution
- 39. Separation Science and Technology
- 40. Environmental Processes
- 41. Advances in Physical Chemistry
- 42. RSC Advances
- 43. International Journal of Global Environmental Issue
- 44. Journal of Chemical Technology & Biotechnology
- 45. Water Science and Technology
- 46. Science Asia
- 47. Ozone: Science & Engineering
- 48. Archives of Environmental Protection
- 49. Research on Chemical Intermediates
- 50. Waste and Biomass Valorization
- 51. Environmental Science: Processes & Impacts
- 52. Water Science and Engineering
- 53. Chemical Engineering Communications
- 54. Water Resource and Industry
- 55. The Korean Journal of Chemical Engineering
- 56. International Journal of Chemical Reactor Engineering
- 57. Songklanarin Journal of Science and Technology
- 58. Environmental Health Engineering and Management Journal
- 59. Journal of Advanced Research
- 60. Chinese Journal of Chemical Engineering
- 61. Critical Reviews in Biotechnology
- 62. Journal of Fluorine Chemistry
- 63. Environmental Processes
- 64. Resource-Efficient Technologies
- 65. Chemical Engineering & Technology
- 66. Journal of Materials and Design
- 67. Caspian Journal of Environmental Sciences
- 68. Biochimie
- 69. Journal of Material Cycles and Waste Management
- 70. The Canadian Journal of Chemical Engineering

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SPORT ACTIVITIES

- Black Belt-Dan 3 in Karate
- Referee, Iranian Sport Organization
- Member of International Karate Organization (IKO)

PERSONAL INTERESTS

- Karate, Volleyball, Horse Riding, Traveling and Touristy

THESIS SUPERVIZED

- 25 MSc. Theses
- 15 Ph.D Dissertations

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PUBLICATIONS AND PRESENTATIONS

BOOKS (Persian):

- 1) Moussavi G., Wastewater Examination for Using in Agriculture, Kermanshah University Publisher, 2002.
- 2) Moussavi G., Wastewater Treatment, Khaniran publisher, 2003
- 3) Moussavi G., Air Pollution and its Control, Khaniran publisher, 2003.
- 4) Moussavi G., Water Engineering, Khaniran publisher, 2003.
- 5) Moussavi G., Wastewater Engineering, Khaniran publisher, 2003.
- 6) Moussavi G., Environmental Microbiology, Khaniran publisher, 2003.
- 7) Moussavi G., Environmental Chemistry, Khaniran publisher, 2003.
- 8) Moussavi G., Fluid Mechanic and Hydraulic, Khaniran publisher, 2003.
- 9) Moussavi G., Fundamentals of Environmental Health, Shahrab publisher, 2005.
- 10) Moussavi G., Water Works Engineering, Hafiz publisher, (2007).
- 11) Moussavi G., Wastewater Sludge Processing, Hafiz publisher, 2009.
- 12) Moussavi G., Wastewater Collection Systems, Hafiz publisher, 2009.
- 13) Moussavi G., Wastewater Treatment in Wetlands, Shahrab publisher, 2009.

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Peer Reviewed Papers (2007 - 2018):

2018

 P. Baratpour, G. Moussavi, The accelerated biodegradation and mineralization of acetaminophen in the H2O2-stimulated upflow fixed-bed bioreactor (UFBR), *Chemosphere*, Volume 210, November 2018, Pages 1115-1123. (IF: 4.427)

- 2. G. Moussavi, M. Pourakbar, E. Aghayani, M. Mahdavianpour, Investigating the aerated VUV/PS process simultaneously generating hydroxyl and sulfate radicals for the oxidation of cyanide in aqueous solution and industrial wastewater, *Chemical Engineering Journal*, Volume 350, 15 October 2018, Pages 673-680. (IF: 6.216)
- 3. A.H. Cheshmehkhavar, G. Moussavi, A. Mahjoub, M. Satari, P. Abdolmaleki, Synthesis and visible-light photocatalytic activity of In,S-TiO2@rGO nanocomposite for degradation and detoxification of pesticide atrazine in water, *Chemical Engineering Journal*, Volume 345, 1 August 2018, Pages 300-311. (IF: 6.216)
- 4. M. Mahdavianpour, G. Moussavi, M. Farrokhi, Biodegradation and COD removal of p-Cresol in a denitrification baffled reactor: Performance evaluation and microbial community, *Process Biochemistry*, Volume 69, June 2018, Pages 153-160. (IF: 2.497)
- 5. A.H. Cheshmehkhavar, G. Moussavi, A. Mahjoub, The preparation of TiO2@rGO nanocomposite efficiently activated with UVA/LED and H2O2 for high rate oxidation of acetaminophen: Catalyst characterization and acetaminophen degradation and mineralization, *Applied Surface*Science, Volume 440, 15 May 2018, Pages 963-973. (IF: 3.387)
- 6. M. Pourakbar, G. Moussavi, K. Yaghmaeian, Enhanced biodegradation of phenol in a novel cyclic activated sludge integrated with a rotating bed bioreactor in anoxic and peroxidase-mediated conditions, *RSC Advances*, Volume 8 (12), Pages 6293-6305. (IF: 3.108)
- 7. Eskandari, M., Goudarzi, N., G. Moussavi, Application of low-voltage UVC light and synthetic ZnO nanoparticles to photocatalytic degradation of ciprofloxacin in aqueous sample solutions, *Water and Environment Journal*, 32(2018), pp. 58-66. (IF: 1.063)
- 8. R. Khosravi, G. Moussavi, M.T. Ghaneian, M.H. Ehrampoush, G. Sharifzadeh, Chromium adsorption from aqueous solution using novel green nanocomposite: Adsorbent characterization, isotherm, kinetic and thermodynamic investigation, *Journal of Molecular Liquids*, Volume 258, 15 April 2018, Pages 163-174. (IF: 3.648)

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g. G. Moussavi, A. Mashayekh, K. Yaghmaeian, A., Mohseni-bandpei, The catalytic destruction of antibiotic tetracycline by sulfur-doped manganese oxide (S–MgO) nanoparticles, *Journal of Environmental Management*, Volume 210, 15 March 2018, Pages 131-138. (IF: 4.01)

- **10. G.** Moussavi, M. Rezaie, M. Pourakbar, Comparing VUV and VUV/Fe²⁺ processes for decomposition of cloxacillin antibiotic: Degradation rate and pathways, mineralization and byproduct analysis, *Chemical Engineering Journal*, Volume 332, 15 January 2018, Pages 140-149. (**IF: 6.216**)
- 11. M. Moradi, G. Moussavi, Investigation of chemical-less UVC/VUV process for advanced oxidation of sulfamethoxazole in aqueous solutions: Evaluation of operational variables and degradation mechanism, *Separation and Purification Technology*, Volume 190, 8 January 2018, Pages 90-99. (IF: 3.359)
- **G.** Moussavi, M. Pourakbar, S. Shekoohiyan, M. Satari, The photochemical decomposition and detoxification of bisphenol A in the VUV/H₂O₂ process: Degradation, mineralization, and cytotoxicity assessment, *Chemical Engineering Journal*, Volume 331, 1 January 2018, Pages 755-764. (**IF: 6.216**)
- 13. A. Yazdanbakhsh, A. Eslami, G. Moussavi, M. Rafiee, A. Sheikhmohammadi, Photo-assisted degradation of 2, 4, 6-trichlorophenol by an advanced reduction process based on sulfite anion radical: Degradation, dechlorination and mineralization, *Chemosphere*, Volume 191, January 2018, Pages 156-165. (IF: 4.208)

- Exploring the advanced oxidation/reduction processes in the VUV photoreactor for dechlorination and mineralization of trichloroacetic acid: Parametric experiments, degradation pathway and bioassessment, *Chemical Engineering Journal*, Volume 328, 15 November 2017, Pages 331-342. (IF: 5.31)
- 2. A. Allahabadi, G. Moussavi, Preparation, characterization and atrazine adsorption potential of mesoporous carbonate-induced activated biochar (CAB) from Calligonum Comosum biomass: Parametric experiments and kinetics, equilibrium and thermodynamic modeling, *Journal of Molecular Liquids*, Volume 242, September 2017, Pages 40-52. (IF: 1.29)

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3. R. Rostami, G. Moussavi, A. Jonaidi, S. Darbari, Decomposition of benzene using wire-tube AC/DC discharge reactors, *Journal of Electrostatics*, Volume 87, June 2017, Pages 158-166. (IF: 1.29)

- 4. G. Moussavi, S. Shekoohyian, K. Naddafi, The accelerated enzymatic biodegradation and COD removal of petroleum hydrocarbons in the SCR using active bacterial biomass capable of in-situ generating peroxidase and biosurfactants, *Chemical Engineering Journal*, Volume 308, 15 January 2017, Pages 1081-1089. (IF: 5.31)
- 5. G. Moussavi, H. Momennejad, S. Shekoohyian, P. Baratpour, Oxidation of acetaminophen in the contaminated water using UVC/S2O82– process in a cylindrical photoreactor: Efficiency and kinetics of degradation and mineralization, *Separation and Purification Technology*, Volume 181, 2017, Pages 132-138. (IF: 3.29)
- 6. A. Mashayekh, G. Moussavi, K. Yaghmaeian, Preparation, characterization and catalytic activity of a novel mesoporous nanocrystalline MgO nanoparticle for ozonation of acetaminophen as emerging water contaminants, *Chemical Engineering Journal*, Volume 310, Part 1, 15 February 2017, Pages 157-169, Available online 22 October 2016. (IF: 5.31)
- H. Hossaini, G. Moussavi, M. Farrokhi, Oxidation of diazinon in_cns-ZnO/LED photocatalytic process: catalyst preparation, photocatalytic examination, and toxicity bioassay of oxidation by-products, Separation and Purification Technology, Volume 174, 1 March 2017, Pages 320-330. (IF: 3.29)
- 8. A. Alahabadi, A. Hosseini-Bandegharaei, G. Moussavi, B. Amin, A. Rastegar, H. Karimi-Sani, M. Fattahi, M. Miri, Comparing adsorption properties of NH₄Cl-modified activated carbon towards chlortetracycline antibiotic with those of commercial activated carbon, *Journal of Molecular Liquids*, *Volume* 232, *April* 2017, *Pages* 367-381, (IF: 2.74)

- g. G. Moussavi, S. Shekoohyian, Simultaneous nitrate reduction and acetaminophen oxidation using the continuous-flow chemical-less VUV process as an integrated advanced oxidation and reduction process, *Journal of Hazardous Materials*, Volume 318, 15 November 2016, Pages 329-338. (IF: 4.836)
- **10.** S. Shekoohiyan, G. Moussavi, K. Naddafi, The peroxidase-mediated biodegradation of petroleum hydrocarbons in a H₂O₂-induced SBR using in-situ production of peroxidase:

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- biodegradation experiments and bacterial identification, *Journal of Hazardous Materials*, Volume 313, 5 August 2016, Pages 170-178. (IF: 4.836)
- **G.** Moussavi, M. Mahdavianpour, The selective direct oxidation of ammonium in the contaminated water to nitrogen gas using the chemical-less VUV photochemical continuous-flow reactor, *Chemical Engineering Journal*, Volume 295, 1 July 2016, Pages 57-63. (**IF: 5.31**)
- **G.** Moussavi, M. Pourakbar, E. Aghayani, M. Mahdavianpour, S. Shekoohyan, Comparing the efficacy of VUV and UVC/S₂O₈ advanced oxidation processes for degradation and mineralization of cyanide in wastewater, *Chemical Engineering Journal*, Volume 294, 15 June 2016, Pages 273-280. (**IF: 5.31**)
- 13. A. Mashayekh, G. Moussavi, Removal of acetaminophen from the contaminated water using adsorption onto carbon activated with NH₄Cl, *Desalination and Water Treatment*, Volume 57, 2016, Pages 12861-12873.(**IF: 1.173**)
- 14. G. Moussavi, S. Shekoohyian, S. Mojab, Adsorption capacity of NH₄Cl-induced activated carbon for the removal sodium dodecyl sulfate from water, *Desalination and Water Treatment*, Volume 57, January 2016, Pages 11283-11290. (IF: 1.173)
- 15. G. Moussavi, S. Shekoohiyan, K. Naddafi, Anoxic biodegradation of petroleum hydrocarbons in saline media using denitrifier biogranules, *Ecotoxicology and Environmental Safety*, *Volume* 129, *July* 2016, *Pages* 51-56. (**IF: 3.13**)
- 16. F. Rezaei, G. Moussavi, A. Riyahi, Y. Yamini, Toluene removal from waste air stream by the catalytic ozonation process with MgO/GAC composite as catalyst, *Journal of Hazardous Materials*, Volume 306, 5 April 2016, Pages 348-358. (IF: 4.836)
- 17. G. Moussavi, Z. Hossaini, M. Pourakbar, High-rate adsorption of acetaminophen from the contaminated water onto double-oxidized graphene oxide, *Chemical Engineering*Journal, Volume 287, 1 March 2016, Pages 665-673. (IF: 5.31)
- 18. M. Pourakbar, G. Moussavi, S. Shekoohyian, Homogenous VUV advanced oxidation process for enhanced degradation and mineralization of antibiotics in contaminated water, *Ecotoxicology and Environmental Safety*, Volume 125, March 2016, Pages 72-77. (IF: 3.13)
- 19. G. Moussavi, M. Leili, K. Nadafi, Investigation of furfural biodegradation in a continuous inflow cyclic biological reactor, *Water Science and Technology*, Volume 73, January 2016, Pages 292-301.(IF: 1.34)
- 20. S.J. Jafari, G. Moussavi, H. Hossaini, Degradation and mineralization of diazinon pesticide in UVC and UVC/TiO2 processes, *Desalination and Water Treatment*, Volume 57, January 2016, Pages 3782-3790.(IF: 1.173)
- 21. G. Moussavi, M. Aqaneghad, Electrochemically enhancement of the anaerobic baffled reactor performance as an appropriate technology for treatment of municipal wastewater in

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developing countries, *Sustainable Environment Research*, *Volume 26, Issue 5, September 2016, Pages 203-208.* (IF: 0.98)

- **G.** Moussavi, J. Jafari, K. Yaghmaeian, High-rate biological denitrification in the cyclic rotating-bed biological reactor: effect of COD/NO₃-, nitrate concentration and salinity and the phylogenetic analysis of denitrifiers, *Bioresource Technology*, Volume 197, December 2015, Pages 482-488.(**IF: 4.917**)
- 23. G. Moussavi, M. Ghorbanian, The biodegradation of petroleum hydrocarbons in an upflow sludge-blanket/fixed-film hybrid bioreactor under nitrate-reducing conditions: performance evaluation and microbial identification, *Chemical Engineering Journal*, Volume 280, 15 November 2015, Pages 121-131.(IF: 5.31)
- **G.** Moussavi, F. Jiani, S. Shekoohyian, Advanced reduction of Cr(VI) in real chrome-plating wastewater using a VUV photoreactor: batch and continuous-flow experiments, **Separation and Purification Technology**, Volume 151, 4 September 2015, Pages 218-224. (IF: 3.299)
- 25. G. Moussavi, M. Aqanaghad, Performance evaluation of electro-Fenton process for pretreatment and biodegradability improvement of a pesticide manufacture effluent, Sustainable Environment Research, Volume 25, 5 September 2015, Pages 249-254. (IF: 0.98)
- **26. G. Moussavi,** J. Jafari, K. Yaghmaeian, Enhanced biological denitrification in the cyclic rotating biological reactor with catechol as carbon source, *Bioresource Technology*, Volume 189, August 2015, Pages 266-272. **(IF: 4.917)**
- **27. G.** Moussavi, K. Yaghmaeian, A. Alahabadi, Investigating the potential of carbon activated with NH₄Cl for catalyzing the degradation and mineralization of antibiotics in ozonation process, *Chemical Engineering Research and Design*, Volume 97, May 2015, Pages 91-99. **(IF: 2.525)**
- 28. A.A. Aghapour, G. Moussavi, K. Yaghmaian, Degradation and COD removal of catechol in wastewater using the catalytic ozonation process combined with the cyclic rotating-bed biological reactor, *Journal of Environmental Management*, Volume 157, 1 July 2015, Pages 262-266.(IF: 3.131)
- 29. G. Moussavi, M. Borghee, M. Farzadkia, R. AHmadi Asl, Decolorization and mineralization of reactive red 198 in saline water: performance comparison of photolysis, UV/TiO2, and UV/ZnO processes, *Environmental Engineering and Management Journal*, Volume 14, May 2015, No. 5, pages 1027-1036.(IF: 1.065)

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30. M. Abbasi, M. Dehghani, G. Moussavi, A. Azhdarpoor, Degradation of organic matter of municipal sewage sludge using ultrasound treatment in Shiraz wastewater treatment plant, *Health Scope*, 4(1): September 2015, e23507.

- G. Moussavi, H. Hossaini, S.J. Jafari, M.Farokhi, Comparing the efficacy of UVC, UVC/ZnO and VUV processes for oxidation of organophosphate pesticides in water, Journal of Photochemistry and Photobiology A: Chemistry, Volume 290, 15 September 2014, Pages 86-93. (IF: 2.477)
- 32. G. Moussavi, S. Ghodrati, A. Mohseni-Bandpei, The biodegradation and COD removal of 2-chlorophenol in a granular anoxic baffled reactor, *Journal of Biotechnology*, *Volume 184, 20 August 2014, Pages 111-117.* (IF: 2.667)
- 33. G. Moussavi, M. Aghanejad, The performance of electrochemical peroxidation process for COD reduction and biodegradability improvement of the wastewater from a paper recycling plant, *Separation and Purification Technology*, *Volume* 132, 20 August 2014, Pages 182-186. (IF: 3.299)
- 34. G. Moussavi, A.A. Aghapour, K. Yaghmaian, The degradation and mineralization of catechol using ozonation catalyzed with MgO/GAC composite in a fluidized bed reactor, *Chemical Engineering Journal*, *Volume* 249, 1 August 2014, Pages 302-310.(IF: 5.31)
- 35. H. Hossaini, G. Moussavi, M. Farrokhi, The investigation of the LED-activated FeFNS-TiO₂ nanocatalyst for photocatalytic degradation and mineralization of organophosphate pesticides in water, Water Research, Volume 59, 1 August 2014, Pages 130-144. (IF: 5.991)
- 36. M. Ghorbanian, G. Moussavi, M. Farzadkia, Investigating the performance of an upflow anoxic fixed-bed bioreactor and a sequencing anoxic batch reactor for the biodegradation of hydrocarbons in petroleum-contaminated saline water, International Biodeterioration & Biodegradation, Volume 90, May 2014, Pages 106-114. (IF: 2.429)

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37. K. Yaghmaeian, G. Moussavi, A. Alahabadi, Removal of amoxicillin from contaminated water using NH₄Cl-activated carbon: Continuous flow fixed-bed adsorption and catalytic ozonation regeneration, *Chemical Engineering Journal*, *Volume 236*, 15 January 2014, Pages 538-544.(IF: 5.31)

- 38. A. Ajdarpour, B. Mortazavi, G. Moussavi, Oily wastewaters treatment using Pseudomonas sp. isolated from the compost fertilizer, *Journal of Environmental Health Science & Engineering*, volume 12, 2014. (IF: 2.28)
- 39. M.Leili, G.Moussavi, K.Naddafi, Removal of Furfural From Wastewater Using Integrated Catalytic Ozonation and Biological Approaches, *Avicenna J. Environ. Health Eng.* 2014 December; 1(1):e120.

- 40. G. Moussavi, R. Rashidi, A. Khavanin, The efficacy of GAC/MgO composite for destructive adsorption of benzene from waste air stream, *Chemical Engineering Journal*, *Volume 228*, 15 *July 2013*, *Pages 741-747*. (IF: 5.31)
- 41. A.A. Aghapour, G. Moussavi, K. Yaghmaeian, Investigating the performance of a novel cyclic rotating-bed biological reactor compared with a sequencing continuous-inflow reactor for biodegradation of catechol in wastewater, *Bioresource Technology*, *Volume* 138, *June* 2013, *Pages* 369-372.(IF: 4.917)
- 42. G. Moussavi, A. Alahabadi, K. Yaghmaian, M. Eskandari, Preparation, characterization and adsorption potential of the NH4Cl-induced activated carbon for the removal of amoxicillin antibiotic from water, *Chemical Engineering Journal*, *Volume 217*, 1 February 2013, Pages 119-128.(IF: 5.31)
- 43. G. Moussavi, H. Hosseini, A. Alahabadi, The investigation of Diazinon pesticide removal from contaminated water by adsorption onto NH4OH-induced activated carbon, *Chemical Engineering Journal*, Volume 214, 1 January 2013, Pages 172-179. (IF: 5.31)
- 44. A.A. Aghapour, G. Moussavi, K. Yaghmaeian, Biological degradation of catechol in wastewater using the sequencing continuous-inflow reactor (SCR), *Iranian Journal of Environmental Health Science and Engineering*, 11 (2013).(IF: 2.28)

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45. B. Barikbin, B. Mortazavi, G. Moussavi, Simultaneous removal of Cr(VI) from water containing sulfate using nanofiltration, *Desalination and Water Treatment*, 2013, Pages 1-7.(IF: 1.171)

- 46. G. Moussavi, S. Talebi, M. Farokhi, M. Mojtabaee, Removal of ammonium from water by adsorption onto synthetic zeolites NaA and NaX: A comparative parametric, kinetic and equilibrium study, *Desalination and Water Treatment*, 2013, 51 (28-30), pp. 5710-5720.(IF: 1.171)
- 47. M. Leili, G. Moussavi, K. Nadafi, Degradation and mineralization of furfural in aqueous solutions using heterogeneous catalytic ozonation, *Desalination and Water Treatment*, 2013, 51 (34-36), pp. 6789-679.(IF: 1.171)
- **48**. A. Ajdarpour, B. Mortazavi, G. Moussavi, Isolation of the lipase producing bacteria from oily wastewater and determination of the variables for optimum lipase production, *Fresenius Environmental Bulletin*, **2013**, 22, pp. 1-6.(**IF: 0.38**)

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