

## C.V (curriculum vitae )



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### **Educational backgoround**

**BSc:** Physics, Tarbiyat Moalem University, Arak, Iran, 1985.

**MSc:** Occupational health, Tarbiat Modares University, Iran, 1989.

**Ph.D:** Occupational health, Tarbiat Modares University, Iran. 2002.

### **Academic and scientific position:**

Dánešyár دانشیار (associate professor) and Academic member of Occupational Health Engineering Department, Tarbiat Modares University, Iran.

### **Book Translated and authored**

- Wastewater treatment, Rezai A, Ghanizadeh Gh, Mortazavi SB, Kavanin A. 2007. Avaye danesh gostar publication.
- Anaerobic wastewater treatment, Mortazavie SB, Ghaneyan MT, Rezai A, Kavanin A. 2007. Avaye danesh gostar publication.

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### Scientific articles published in Persian

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- 2- Azimi Pirsarayi SR, Mosavinasab N, Khavanin A, Asilian H, Soleimanian A. The role of employment in lead ingots manufacturing industry on the lead hair content in Zanjan. 2002; 10 (39): 29-34.
- 3- Khavanin A, Mortazavi S.B, Fathollahi Y, Imani H., Kazemnejad A, Akbari M, Mahmoudian S. Investigating the effect of toluene vapors on rabbits hearing function in using brainstem response hearing auditory (ABR) method. Medical Daneshvar. 2003: 10 (45): 27-34.
- 4- Khorram-Zadeh M.R, Khvanin A, Mortazavi SB, Asilian H, Soleimanian A. Evaluation of airborne dust in the work place and its impact on the workers' pulmonary performance in a modern cement plant, in Tehran. Sanat Siman. 2003; 72:72.
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- 6- Derayat J, Rezaee A, Mortazavi SB, Yamini Y, Khavanin A, Soleimanian A. The study of effective factors in mercury removed from aqueous solutions using granular activated carbon. Journal of Kermanshah University of Medical Sciences. 2005; 9 (1): 44-51.
- 7- Mortazavi SB, Jabbari M, Gharabagh H, Asilian A, Khavanin A, Solimanian A. Evaluation of 4,4-methylene diphenyl diisocyanate effects on foam producing workers of a car manufacturing company. The Journal of Qazvin Univ. of Med. Sci. 2005; 9(34):43-50.
- 8- Nikpey A, Mortazavi SB, Khavanin A, Asilian H, Rezai A, Soleimanian A. Catalytic hydrolysis of methyl tertiary-butyl ether (MTBE) in groundwater. Nashrieh Shimi va Mohandesi Shimi Iran (NSMSI). 2005;24(1):73-81
- 9- Gholamniya R, Mortazavi B, Asilian H, Khavanin A. Evaluation of occupational exposure to Rockwool and the changes of respiratory volumes and capacities induced by its inhalation in a manufacturing unit. Daneshvar Medicine. 2005; 12(58):53-61.
- 10- Sayed Bagher Mortazavi, Ramezan Mirzae, Ali Khavanin, Hasan Asilian, Mohsen Nourshargh, Ardalan Soleimanian. Metallic Mercury Vapour and Particulates Pollution in a Petrochemical Company. Journal of Kermanshah University of Medical Sciences. 2006; 10 (3), 235-241.

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- 11-** Valipur F, Pourtaghi GH, Khavanin A, Akhound MR, Ansari G, Mazahebi M. Rate of X-ray irradiation around the inspection gates at Mahrabad Airport, Tehran, Iran. *Journal of Military Medicine.*2006; 8(1): 63-68.
- 12-** Khavanin A, Mortazavi SB, Mirzaii R, Imani H. The comparison of effects of toluene, especially noise and toluene along with noise per Auditory Brain Stem response on rabbit. *Zahedan journal of research in medical sciences (Tabib-e-Shargh)*2007; 9(3): 171-181.
- 13-** Khavanin A, Zaroushani V, Mortazavi SB, Rezaei A, Mirzaei R, Hasani J. A Study on the biological effect of microwave mobile phone on rabbit blood antioxidant capacity. *Iranian Journal of Basic Medical Sciences.* 2007; 9(4):244-249.
- 14-** Asilian H, Valadkhani A, Mortazavi SB, Salem M, Khavanin A. Assessment of factors associated with explosion of gas-fuel in fire-tube boilers. *Journal of Qazvin University of Medical Sciences* 2007;10 (4):58-63.
- 15-** Safari Varyani A , Mortazavi SB, Khavanin A, Moazeni SM , Kazemnegad A. The effect of microwave on micronucleus induction and nuclear division index changes on Balb/c mice lymphocytes. 2007;11(3): 40-45
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- 17-** Asilian H, Khavanin A, Mortazavi SB, Faghihzadeh S, Yarahmadi R. The environmental study of airborne sulfates in a petrochemical complex. *Environmental sciences and technology.* 2006; 9(1): 17-22.
- 18-** Yarahmadi R, Mortazavi SB, Asiliyan H, Khavanin A, Moridi P. Evaluation of correlation between emission of sulfur oxides and sulfuric acid mists and workers personal exposure in a petrochemical complex. *Iran Occupational Health.* 2007; 4(1): 43-47.
- 19-** Mortazavi SB, MirzaeR, Khavanin A, AsilianH, Nourshargh M, Soleimanian A. Metallic Mercury Vapour and Particulates Pollution in a Petrochemical Company. *Journal of Kermanshah University of Medical Sciences.* 2006;10 (3):235-239
- 20-** Valipour F, Khavanin A, Asilian H, Pourtaghi Gh, Mohebi HA, Jonaidi N, Naghizadeh MM, Momayezi A, Alavi HS. Measurement of Physical work capacity (PWC) for Iranian

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- Military Personnel in Different Condition Chamber Laboratory Climates (Normal and Very Hot and Humid). *Journal of military medicine*. 2007; 9: 67-7.
- 21-** Rezaee A , Pourtaghi GhH, Khavanin A, Saraf Mamoori R, Hajizadeh E , Valipour F. Elimination of toluene by Application of ultraviolet irradiation on TiO<sub>2</sub> nano particles photocatalyst. *Journal of military medicine*. 2007;9 (3): 217-222
- 22-** Mortazavi SB, Zaranezhad A, Khavanin A ,Asilian H. Identification and safety assessment of the hazardous zones (unwanted energy flows) in a petrochemical project by application of ET& BA method. *Journal of Babol University of Medical Sciences (JBUMS)*. 2007; 9(4):39-46.
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- 26-** Rezaee A , ghanizadeh Gh, Yazdanbakhsh AR, Behzadiannejad Gh, Khavanin A, Ghaneian MT, Siadat SD, hajizadeh E. Survey of the effect of water disinfection with chlorine on release and removal of endotoxin. *The journal of military medicine*. 2008; 9, (4): 249-256
- 27-** Mortazavi SB, Azhdarpour A, Khavanin A, Mousavi SGh. Removal of anionic surfactant and carbonated organic materials by extended aeration system on a periodic cycle. *Iranian journal of Biology*.2008; 1(2):166-171.
- 28-** Khvanin A, Hajj Azimi E, Asilian H, Mortazavi SB, Soleimanian A, Motallebi M. Noise Emitted from Motorcycle Exhaust and its Control. *Journal of Kermanshah University of Medical Sciences* 2008; 12 (1):38-48.
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- 31-** Mortazavi SB, Joze Kanani M. Khavanin A, Mirzaei R., Rasoolzadeh Y, Mansourizadeh M , Mohseni M. Foot Anthropometry by Digital Photography and the importance of its application in Boot Design. *J Mil Med* 2008, 10(1): 69-80.
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- 39-** Khavanin A, Najafi P, Pilehvarian AA, Asilian H, Akbari M, Ghods Sh. The effect of microwave radiation on rabbit's hearing. *The Journal of Qazvin University of Medical Sciences* 2008; 12(3):45-51.

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- 40-** Darabi E, Asilian H , Gholamnia R, Rezaee A, Jonidi jafari A, Khavanin A. Degradation of Transformer Oils by Photolysis in order to Reduce Occupational and Environmental Hazards. *Journal of Zanjan University of Medical Sciences and Health Services*. 2009; 17(68): 35-44.
- 41-** Rasoulzadeh Y, Mortazavi SB, Yousefi AA, Khavanin A, Kazemnejad Lili A. Effect of Recycled Waste Polymers, Natural Bitumen and HVS Cut on the Properties of Vacuum Bottom. *Iranian Journal of Polymer Science and Technology (IJPST)*. 2010; 23(1): 85-95.
- 42-** Moussavi Gh.R, Khavanin A, Mokarami H.R. Investigating the effect of gas flow rate, inlet ozone concentration and relative humidity on the efficacy of catalytic ozonation process in the removal of xylene from waste airstream. *Iran Occupational Health*. 2010, 7(3): 65-70
- 43-** Asilian H, Khavaneen A, Hamoud I. Sampling of benzene in the air using natural modified iranian zeolite (purpose is replacing of activated carbon). *Nashrieh Shimi va Mohandesi Shimi Iran*. 2010; 29(3): 147- 156.
- 44-** Moussavi G.R, Khavanin A, Mokarami H. Removal of Xylene fromWaste Air Stream Using Catalytic Ozonation Process. *Iranian Journal of Health and Environment (IJHE)*. 2010, 3(3): 239-250.
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- 46-** Mortazavie SB, Dadashpour Ahangar A, Rezaie A, Mirzaie R, Khavanin A, Bahram Beygi M. Quantitative analysis of bioaerosols in operating room and efficiency of controls systems. *Journal of military medicine*. 2009; 11(3): 171-174.
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- 51-** Motalebi Kashani M, Mortazavi SB, Khavanin A, Alameh AA, Mirzaei R, Akbari M. Effect of noise and carbon monoxide exposure on plasma antioxidant ability and blood glutathione in rabbits. *Iranian south medical journal (ISMJ)*. 2011; 13 (4):230 to 240.
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- 53-** Rowshani Z, Mortazavi SB, Khavanin A, Mirzaei R, Mohseni M. Comparing RULA and Strain index methods for the assessment of the potential causes of musculoskeletal disorders in the upper extremity in an electronic company in Tehran. *Journal of Kashan University of Medical Sciences (Feyz)*. 2013; 17(1): 61-70.
- 54-** Vosoughi Sh, Khavanin A, Salehnia M, Asilian Mahabadi H , Esmaeili V. Toxic Effects of Formaldehyde Vapors on Testicular tissue and Sperm. *Iran Occupational Health*. 2013;10 (1): 11-22.
- 55-** Khavanin A, Akbari M, Mirzaie R, Nazari S, Motalebi M. Effect of different exposure times to compliance noise on rabbits' hearing protection by distortion product otoacoustic emissions. *Journal of Qazvin University of Medical Sciences*. 2013; 17 (1): 19 - 25.
- 56-** Khavanin A, Soleimani M, Akbari M, Mirzaaie R, Motalebi M, Asilian H, Soleimanian A. The protective effect of sound conditioning on the hearing system of rabbits. *Arak Medical University Journal (AMUJ)*. 2011; 14(2): 29-35
- 57-** Ghambarzade Alamdari, Z, Khavanin A, Kokabi M. Mechanical combined recycling of PET & PE & PS and PP used in packaging industries for manufacturing isolating panel and assessment of compressive strength. *Journal of Food Science and Technology*. 2009; 6 (4):43-49.
- 58-** Motalebi Kashani M, Mortazavi SB , Khavanin A, Alameh A, Mirzaei R , Akbari M. Effect of simultaneous noise and carbon monoxide exposure on rabbits' auditory brain stem response. *Journal of Kashan University of Medical Sciences (Feyz)*. 2010; 13(4) : 261-270

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- 59- Asilian H , Gholamnia R, Rezaee A, Jonidi Jafari A, Khavanin A, Darabi E. The comparison of solvents effect on photolysis of PCB compounds for reducing their hazards in environment. Arak Medical University Journal (AMUJ). 2010; 13(2): 1-8.
- 60- Haji Azimi E, Khavanin A, Aghajani M, Soleymanian A. Heat stress measurement according to wbgt index in smelters. Journal of Military Medicine. 2011; 13(2): 59-64.
- 61- Moussavi-Najarkola SA, Khavanin A, MirzaeeR, Salehnia M, Akbari M, Asilian H. Study of noise effects on rabbit's hearing status using distortion product otoacoustic emissions. Audiology. 2011; 20(2): 113-124.
- 62- Moussavi-Najarkola SA, Khavanin A, Mirzaee R, Salehnia M, Akbari M, Asilian H, Soleimanian A. Study of Noise-Induced Hearing Loss by Distortion Product Otoacoustic Emissions. Journal of Babol University of Medical Sciences. 2011; 13(5):34-43.
- 63- Koozehchiyan H, Goodarzi M, Khavanin A, Farzan F. The Analysis of Safety and the Design of a Model in Sport Halls of Physical Education Faculties. Journal of sport magazine. 2012; 3(11):119-138.
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- 65- Dehghan Shahreza H, Mortazavi SB, Jafari MJ, Mohamad Reza. Designing and Investigating Content Validity and Reliability of a Questionnaire for Preliminary Assessment of Heat Stress at Workplace. Health System Research. 2011;7(2):228-245.
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- 67- Ranjbarian M, khavanin A, Dehghani A, Rezazadeh Azari M, Allameh A, Sabour S, Abbas Gohari F, Azizian S . Does inhalation of formaldehyde lead to oxidative stress in blood of rat?. Pajouhande (shahid Beheshti University of medical sciences).2012; 16(7): 327-332.
- 68- Ghanbari M, Mortazavi SB, Khavanin A, Khazaei M, Vaisi-Raygani A, Bani Amerian H. The individual and simultaneous effect of the microwaves and sharp sound on sperm viability and total antioxidant capacity of plasma in male rats. Journal of Kermanshah University of Medical Sciences. 2012; 16(4): 293-301.
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- 71-** Vosoughi Sh, Khavanin A, Salehnia M, Asilian Mahabadi H. Effects of simultaneous formaldehyde vapor and noise exposure on sperm parameters and pituitary-gonadal axis in adult male mice. Journal of Acoustical Engineering Society of Iran, 2013; 1 (1).
- 72-** Bagheri A, Moussavi Gh, Khavanin A .Investigating the Electro-Fenton (EF) Process Performance in Treating Highly Formaldehyde-Polluted Industrial Wastewater Iran. J. Health & Environ. 2012; 5(2).
- 73-** Tajik R, Asilian Mahabadi H, Khavanin A, Jonidi Jafari A, Eshrati B, Soleimani A. Decomposition of Transformer Oil (PCB153 and PCB170) Using Microwave Radiation and Combined TiO<sub>2</sub>/H<sub>2</sub>O<sub>2</sub>. J Health Syst Res .2012; 8(3): 504-514.
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- 75-** Bagheri A, Moussavi Gh , Khavanin A. Assessment of the efficiency of electro-Fenton process in degradation of formaldehyde from a highly concentrated aqueous solution by aluminum and iron electrodes. Scientific Journal of Kurdistan University of Medical Sciences 2012 ;17(3):72-81.
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- 77-** Valipour F. Rezaee A. Jonydi Jafari A. Khavanin A. Adsorption of workplace bioaerosols using Iranian natural zeolite. Iran Occupational Health. 2013;10(1).
- 78-** Rashidi R, Moussavi S.Gh., Khavanin A. The Effect of Reaction Time, Ozone Dosage and Relative Humidity on the Performance of UV/O<sub>3</sub> Process in The Removal of Benzene From The Airflow. Scientific Journal of Ilam University of Medical Sciences **2013; 21 (2):** 81-91.

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- 80-** Valipour F, Rezaee A, Jonydi Jafari A, Khavanin A. Photocatalytic removal of Pseudomonas aerognisa from air using immobilized ZnO nanoparticle on Iranian natural zeolite. Military medicine journal. 2013;15 (2): 157-162.
- 81-** Rangkooy HA, RezaeeA, Khavanin A, Jonidi Jafari A, Khoopaie AR. A Study on Photocatalytic Removal of Formaldehyde from Air Using ZnO Nanoparticles Immobilized on Bone Char. Qom University of Medical Sciences Journal 2013; (7) 2.
- 82-** Tajik R, Asilian H, Khavanin A, Jonidi A, Eshrati. The Effect of Solvent, Hydrogen Peroxide and Dioxide Titanium on Degradation of Poly Chlorinated Biphenyls Oils Using Microwave Radiation in Order to Reduce Occupational Exposure. Scientific Journal of Ilam University of Medical Sciences. 2014; 21 (7) :24-33.
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- 84-** Khavanin A, Azrah K, Mirzaei R, Mortazavi SB, Asilian H, Soleimanian A. Evaluating subway drivers' exposure to whole body vibration based on basic and vdv methods (with iso 2631-1 standard). Journal of health and safety at work. 2014 ; 4 (2): 15 - 26.
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- 87-** Evaluation of Isocyanates Concentration in the Air of the Foam Producing Section in a Car Manufacturing Company, APCBEE Procedia, 2014
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- 92- Effects of simultaneous exposure to noise and styrene on rat liver enzymes. journal of occupational health and epidemiology.2016
- 93- A New Microwave Shield Preparation for Super High Frequency Range Occupational Approach to Radiation Protection. journal of research in health sciences.2016
- 94- Investigating the effects of noise exposure on intensification of diabetes mellitus serum glucose cortisol level and body weight of the male mice. journal of paramedical sciences. 2016
- 95- Assessment of health risks of exposure to hazardous chemicals by semi-quantitative method in a gas refinery complex, journal of occupational health and epidemiology, 2016
- 96- Validity and consistency assessment of accident analysis methods in the petroleum industry, International Journal of Occupational Safety and Ergonomics, 2017
- 97- Preconditioning by the inhalation of pure oxygen protects rats cochlear function against noise-induced hearing loss, journal of occupational health and epidemiology, 2017
- 98- Pre-treatment with normobaric oxygen protects rats cochlear function from noise induced hearing loss, journal of occupational health and epidemiology, 2018
- 99-
- 100- Application of A Fuzzy Multi-Criteria Decision Model for Accident Analysis Method Selecting in Oil Industry, journal of health scope, 2018
- 101- Comparison of acoustic absorption characteristics of coir and date palm fibers: experimental and analytical study of green composites, International Journal of Environmental Sciences and Technology, 2019
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- 103- Validity and consistency assessment of accident analysis methods in the petroleum industry, International Journal of Occupational Safety and Ergonomics,2019
- 104- Improvement of the sound absorption properties of flexible polyurethane (PU) foam using nanofibers and nanoparticles, SOUND AND VIBRATION, 2019
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- 106- Improving the Sound Absorption Properties of Flexible Polyurethane (PU) Foam using Nanofibers and Nanoparticles, SOUND AND VIBRATION, 2019
- 107- Effects of concomitant exposure to styrene and intense noise on rats' whole lung tissues. Biochemical and histopathological studies, DRUG AND CHEMICAL TOXICOLOGY,2019
- 108- Energy efficiency improvement in nitric oxide reduction by packed DBD plasma: optimization and modeling using response surface methodology (RSM), ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, 2020
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- 113- Removal of sulfur dioxide from air using a packed-bed DBD plasma reactor (PBR) and in-plasma catalysis (IPC) hybrid system, 2021

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- 2- M.Sadeghi, A.Mesdaghinia, A.Badkoubi, R.Nabizadeh, Application of the Ozonation Pre-treatment for Biodegradation of Aqueous Solutions of Methyltert-Butyl Ether, New York, USA, American Journal of Environmental Sciences, 1, 1, 2005, 41-45
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