



## **Yahya Rasoulzadeh**

### **Personal Information**

Professor of Occupational Health,  
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### **Education**

BSc of Occupational Health, Shahid Beheshti University of Medical Sciences, Tehran, Iran, 1998

MSc of Occupational Health, Tarbiat Modares University, Tehran, Iran, 2001

PhD of Occupational Health, Tarbiat Modares University, Tehran, Iran, 2010

### **Awards**

Ranking 1 to 3 in all Degrees

### **Professional Experiences**

- Professor of Occupational Health Engineering, Academic member of Department of Occupational Health. From 01/Aug/2010 - Present, Tabriz University of Medical Sciences
- Head of Department of Occupational Health from 14/Oct/2013 - Present.

### **Teaching Experiences**

I have been involved in teaching of the following subjects:

1. Dynamics of gases and aerosols, **B.Sc.** Students
2. Principles of air sampling, **B.Sc.** Students
3. Principles of indoor air pollution control, **B.Sc.** Students
4. Industrial ventilation design, **B.Sc.** Students
5. Evaluation of air pollutants, **M.Sc.** Students
6. Designing air pollution control systems, **M.Sc.** Students
7. Macroergonomics, **M.Sc.** Students

8. Cognitive ergonomics, **M.Sc. and Ph.D. Students**
9. Psychosocial work factors, **M.Sc. and Ph.D. Students**
10. Human error, **M.Sc. and Ph.D. Students**

### **Reviewer in the following Journals**

1. Health Promotion Perspectives
2. Journal of Iranian Occupational Health
3. Iranian Journal of Ergonomics
4. Iranian Journal of Occupational Health
5. Cognition Technology and work
6. Environmental Science and Pollution Research
7. Work

### **Research Interest Keywords**

1. Cognitive Ergonomics
2. Human error and traffic safety
3. Ergonomics risk assessment
4. Indoor air quality Control
5. Occupational exposure risk assessment

### **Publications**

#### **Full papers published in journals**

1. Ghanbari Z, Abouee-Mehrizi A, Rasoulzadeh Y, Hokmabadi R. Psychometric properties of the Persian version of the Fleishman Job Analysis Survey (FJAS). *Work*. 2024 Jan 12;77(1):113-21.
2. Pourhosein R, Musavi S, Rasoulzadeh Y. A Comparative Risk Assessment of Human Error in Firefighting Using SLIM and Fuzzy SLIM Methods. *Journal of Health and Safety at Work*. 2024 Mar 10;14(1):150-73.
3. Mortazavi SM, Sadeghi-Bazargani H, Charkhabi SA, Rasoulzadeh Y, Nadrian H. The Silent Contributors: A Qualitative Study to Bridge the Gap between Driver Behavior and Systemic Issues Interactions to Crashes(2024).
4. Akbarzadeh O, Rasoulzadeh Y, Haghighi M, Talati A, Golzad H. Investigation of Synergistic Influence of Ultrasound and Co-Doping to Degrade Toluene from Polluted Air in Construction Sites—An Experimental Approach. *Buildings*. 2024 Sep 11;14(9):2876.
5. Khuniqi HN, Rasoulzadeh Y, Mohammadian Y. DNA damage in foundry workers using non-invasive micronucleus cytome assay. *Mutation Research/Genetic Toxicology and Environmental Mutagenesis*. 2023 Oct 1;891:503686.
6. Abouee-Mehrizi A, Saed-Moucheshi S, Rasoulzadeh Y, Mehdipour A, Mohammadoghli-Reyhan F, Iraj Z, Alihemmati A, Shokoohi M. Toxicological Effects of Simultaneous Exposure to Toluene and Noise

- on some Sexual and Stress Parameters in New Zealand White Rabbits. *Pollution*. 2023 Jan 1;9(1):126-38.
7. Hadi A, Niaei A, Seifi A, Rasoulzadeh Y. The impact of operational factors on degradation of formaldehyde as a human carcinogen using Ag<sub>3</sub> PO<sub>4</sub>/TiO<sub>2</sub> photocatalyst. *Health Promotion Perspectives*. 2023;13(1):47.
  8. Abdollahpour N, Helali F, Rasoulzadeh Y, Hassankhani H. Barriers and Challenges to Human Factors/Ergonomics Knowledge Transfer to Small Business Enterprises in an Industrially Developing Country. *IISE Transactions on Occupational Ergonomics and Human Factors*. 2023 Feb 13:1-8.
  9. Soltanpour Z, Rasoulzadeh Y, Mohammadian Y. Occupational exposure to metal fumes among Iranian welders: systematic review and simulation-based health risk assessment. *Biological Trace Element Research*. 2023 Mar;201(3):1090-100.
  10. Hadi A, Haghighatnia H, Hesami A, Rasoulzadeh Y. Validity and Reliability of the Persian Version of the Computer Vision Syndrome Questionnaire. *Journal of Health & Safety at Work*. 2023 Mar 1;13(1).
  11. HN. Micronucleus assay of DNA damage among welders: effects of welding processes. *Mutation Research/Genetic Toxicology and Environmental Mutagenesis*. 2023 Apr 1;887:503598.
  12. Abouee-Mehrizi A, Rasoulzadeh Y, Solali S, Esmaeilzadeh H, Iraj Z, Mesgari-Abbasi M. Hematotoxicity induced by simultaneous exposure to noise and toluene in New Zealand white rabbits: Synergistic and antagonistic effects. *Toxicology and Industrial Health*. 2023 Jun 11:07482337231180404.
  13. Soltanpour Z, Rasoulzadeh Y, Ansarin K, Seyedrezazadeh E, Mohammadian Y. Carcinogenic and non-carcinogenic risk of exposure to metal fume in different types of welding processes. *Environmental Science and Pollution Research*. 2023 Jun 22:1-7.
  14. Ghanbari Z, Abouee-Mehrizi A, Rasoulzadeh Y, Hokmabadi R. Psychometric properties of the Persian version of the Fleishman Job Analysis Survey (FJAS). *Work*. 2023 Jul 18(Preprint):1-9.
  15. Sarkari NM, Rasoulzadeh Y, Musavi S, Moradi G, Habibi P. Electrospun Polyurethane/ $\beta$ -Cyclodextrin Composite Membranes for Aerosol Filtration and Adsorption of Volatile Organic Compounds from the Air. *Journal of Environmental Health and Sustainable Development*. 2022 Jun 20.
  16. Nasirzadeh N, Rasoulzadeh Y, Mahmoudi D, Marioryad H, Abdollahi MH, Najafian H, Khalili M. Evaluating the airborne asbestos dispersion in enclosed parking lots in Iran. *Archives of Environmental & Occupational Health*. 2022 Jun 2;77(6):437-45.
  17. Laybidi MI, Rasoulzadeh Y, Dianat I, Samavati M, Jafarabadi MA, Nazari MA. Cognitive performance and electroencephalographic variations in air traffic controllers under various mental workload and time of day. *Physiology & Behavior*. 2022 Aug 1;252:113842.
  18. Hadi A, Niaei A, Seifi A, Rasoulzadeh Y. Synthesis, Characterization, and Efficiency Testing of Ag<sub>3</sub> PO<sub>4</sub>/TiO<sub>2</sub> Heterogeneous Nano-Photocatalyst in Removing Gaseous Formaldehyde as an Occupational Carcinogen. *Journal of Health & Safety at Work*. 2022 Sep 1;12(3).
  19. Hesari RZ, Rasoulzadeh Y, Mohammadian Y, Nasirzadeh N. Cancer risk assessment of exposure to asbestos during old building demolition. *Work*. 2022 Dec 13(Preprint):1-8.
  20. Abouee-Mehrizi A, Rasoulzadeh Y, Kazemi T, Mehdipour A, Mesgari-Abbasi M. Toxicopathological changes induced by combined exposure to noise and toluene in New Zealand White rabbits. *Arhiv za higijenu rada i toksikologiju*. 2022 Mar 30;73(1):31-42.
  21. Nasirzadeh N, Mohammadian Y, Rasoulzadeh Y, Azari MR, Khodagholi F. Toxicity of Carbon-Based Nanomaterials in the Human Lung: A Comparative In-Vitro Study. *Tanaffos*. 2022 Mar;21(3):391.
  22. Abouee-Mehrizi A, Rasoulzadeh Y, Kazemi T, Mesgari-Abbasi M. Inflammatory and immunological changes caused by noise exposure: A systematic review. *Journal of Environmental Science and Health, Part C*. 2022 Feb 13;38(1):61-90.
  23. Abouee-Mehrizi A, Rasoulzadeh Y, Mehdipour A, Nasirzadeh N, Shatouei-Gharenjeh O, Ebrahimi-Kalan A. Co-Exposure to Toluene and Noise Made Synergistic and Antagonistic Effects on Some Neurotoxic Parameters in New Zealand White Rabbits. *Basic and Clinical Neuroscience*. 2021 Oct 5:0-.
  24. Mehnati P, Sabri H, Zargar RM, Rasoulzadeh Y, Mahmoudi D, Malekzadeh R. Assessment of solar ultraviolet radiation in Tabriz city, Iran. *International Journal of Radiation Research*. 2021 Apr 1;19(2):437-41.
  25. Mehrizi AA, Rasoulzadeh Y, Moucheshi SS, Mehdipour A. Histopathological changes caused by noise exposure in lung, heart, kidney, and liver tissues in New Zealand white rabbits. *Journal of Air Pollution and Health*. 2021.
  26. Abouee-Mehrizi A, Rasoulzadeh Y, Mehdipour A, Alihemmati A, Rahimi E. Hepatotoxic effects caused by simultaneous exposure to noise and toluene in New Zealand white rabbits: a biochemical and histopathological study. *Ecotoxicology*. 2021 Jan;30:154-63.

27. Omran Ahmadi, Pouya Sheikh Damenab, Asghar Abbaspour, Yahya Rasoulzadeh. Musculoskeletal Disorders Risk Assessment in Serviceman Workers of a Petrochemical Company. *International Journal of Musculoskeletal Pain Prevention*. 2020; 5(3): 360-366.
28. Amirreza Abouee-Mehrizia, Yahya Rasoulzadehb, Mehran Mesgari-Abbasic, Ahmad Mehdipourd, Abbas Ebrahimi-Kalane. Nephrotoxic effects caused by co-exposure to noise and toluene in New Zealand white rabbits: A biochemical and histopathological study. *Life Sciences* 259 (2020) 118254.
29. Nafiseh Nasirzadeh, Yahya Rasoulzadeh, Mansour Rezazadeh Azari, Yousef Mohammadian. Cellular Toxicity of Multi-walled Carbon Nanotubes on Human Lung Cells. *Journal of Chemical Health Risks*. 2020; 10(2): 135-144.
30. Mehran Nazarpour-Noshadi, Jafar Ezzati Nazhad Dolatabadi, Yahya Rasoulzadeh, Yousef Mohammadian, Dariush Shanehbandi. Apoptosis and DNA damage induced by silica nanoparticles and formaldehyde in human lung epithelial cells. *Environmental Science and Pollution Research*. 2020; 1-10.
31. Ahmad Bazazan, Yahya Rasoulzadeh, Iman Dianat, Abdolrasoul Safaiyan, Zohreh Mombeini. Occupational fatigue and mental health complaints among 8-hour shift workers of petrochemical industries in Iran. *WORK: A Journal of Prevention, Assessment, and Rehabilitation*. 2019; 62(2): 309-317.
32. Omran Ahmadi, Seyed Ehsan Samaei, Maryam Farokhzad, Yahya Rasoulzadeh. Identifying Hazardous Points in Foundry Industry Using a Hybrid Safety Approach, *Archives of Occupational Health*. 2019.
33. Sahar Rahimian Aghdam, Seyed Shamseddin Alizadeh, Yahya Rasoulzadeh, Abdolrasoul Safaiyan. Fatigue Assessment Scales: A comprehensive literature review. *Archives of Hygiene Sciences*. 2019; 8(3): 145-153.
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35. Nafiseh Nasirzadeh, Mansur Rezazadeh Azari, Yahya Rasoulzadeh, Yousef Mohammadian . An assessment of the cytotoxic effects of graphene nanoparticles on the epithelial cells of the human lung. *Toxicology and industrial health*. 2019; 35(1): 79-87.
36. Leila Tohid, Zahra Sabeti, Parvin Sarbakhsh, Khaled Zoroufchi Benis, Mohammad Shakerkhatibi, Yahya Rasoulzadeh, Raana Rahimian, Siamak Darvishali. Spatiotemporal variation, ozone formation potential and health risk assessment of ambient air VOCs in an industrialized city in Iran. *Atmospheric Pollution Research*. 2019;10(2): 556-563.
37. Mohammad Ebrahim Ramazani, Mohammad Mosafieri, Yahya Rasoulzadeh\*, Mojtaba Pourakbar, Mohammad Asghari Jafarabadi, Heresh Amini. Temporal and Spatial Evaluation of Environmental Noise in Urban Area: A Case Study in Iran. *International Journal of Environmental Science and Technology*, (2018) 15:1179–1192.
38. S NOJOMI, A ZARRANEJAD, S VARMAZYAR, M ABBASI. A comprehensive review of studies of occupational accidents since the beginning of 1380 to the end of 1393 in Iran: A systematic review. *Iran Occupational Health*, 2017; 14 (1), 93-113(In Persian).
39. Y Rasoulzadeh, I Shirinzadeh. Psychometric properties of the Persian version of the just culture questionnaire (JCQ). *Iran Occupational Health*, 2017; 14 (1), 114-122 (In Persian).
40. B Moloudpourfard, Y Rasoulzadeh, SS Alizadeh. Risk assessment of Cephalixin Crystals production unit in one of the pharmaceutical companies using LOPA technique. *Iran Occupational Health*, 2017; 13 (6), 87-97(In Persian).
41. H Khodabandelou, Y Rasoulzadeh, R Mirzaeei, M Ahangarzade Rezaeei. Bio-Aerosols Variety and Concentration In different Hospital Wards of Miandoab City in winter. *Med J Tabriz Uni Med Sciences Health Services*, 2016; 38 (3), 58-65(In Persian).

42. Y Rasoulzadeh, M Asghari Jafarabadi, I Dianat. The variety and rate of human error in reception staff of clinical laboratories in Tehran and Tabriz, 2014. *Iran Occupational Health*, 2016; 12 (6), 28-38(In Persian).
  43. Omran Ahmadi , Yahya Rasoulzadeh \* , Asghar Abbaspour , Pouya Sheikh Damanab , Mitra Rahimzadeh , Fatemeh Keshizadeh and Sepideh Dalili. Personality and Its Relationship with Prevalence of Musculoskeletal Disorders. *Jundishapur J Helath Res*. 2016; 7(6):e37936.
  44. Yahya Rasoulzadeh, Seyed Shamseddin Alizadeh, Saber Valizadeh, Hamidreza Fakharian and Sakineh Varmazyar. Health, Safety and Ergonomically Risk Assessment of Mechanics using Job Safety Analysis (JSA). *Indian Journal of Science and Technology*. 2015, 8 (28). Technique in an Iran City.
  45. Y. Rasoulzadeh, S.Sh. Alizadeh, S.Valizadeh, P. Moshashaei. Safety and health work-instruction in mechanics provided using job safety analysis technique. *Scientific Journal of Pure and applied Sciences* (2015) 4(20 44-48).
  46. Yahya Rasoulzadeh, Ahmad Bazazan, Abdorasoul Safaiyan, Iman Dianat. Fatigue and psychological distress: A case study among an Iranian petrochemical plant shift workers in Bushehr, 2013. *Iranian Red Crescent medical Journal*. 2015; 17(10).
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47. Ahmadi Omran, Gholamnia Reza, Alizadeh Seyed Shamsedin, Rasoulzadeh Yahya and Sheikh Damanab Pouria. Prevalence of Musculoskeletal Disorders among Farmers in Eastern Azerbaijan, Iran. *Indian Journal of Science and Technology*. 2015, 8 (28).
  48. P. Sheikh Damanab, S.S. Alizadeh, Y. Rasoulzadeh, Moshashaie P, S. Varmazyar. Failure modes and effects analysis (FMEA) technique: a literature review. *Scientific Journal of Review* (2015) 4(1) 1-6.
  49. Maryam Abbasi, Reza Gholamnia, Seyed Shamseddin Alizadeh and Yahya Rasoulzadeh. Evaluation of Workers Unsafe Behaviors using Safety Sampling Method in an Industrial Company. *Indian Journal of Science and Technology*. 2015, 8(28).
  50. Ahmad Bazazan, yahya rasoulzadeh\*, Iman dianat, Abdorasoul safaiyan, Zohreh Mombeini, Ehsan Shirvand. Demographic characteristics on fatigue and mental disorders among 12-hour petrochemical shift workers. . *Health Promotion Perspectives*. 2014; 4 (2): 165-172.
  51. Z Ghanbari, Y Rasoulzadeh, T Allahyari. Cognitive work analysis via CTA and quantifying with FJAS in control rooms of a petrochemical industry. *Iran Occupational Health*, 2014; 11 (4), 20-30(In Persian).
  52. Vajiheh Lotfi, Yahya Rasoulzadeh, Faramarz Moattar, Reza Gholamnia, Mohammed Shaker Khatibi. Survey of airborne asbestos concentrations in high traffic areas of Tabriz. *Med J Tabriz Univ Med Sci*, 2013; 35 (2), 78-83(In Persian).
  53. Rasoulzadeh, Y. Gholamnia R. Effectiveness of an Ergonomics Training Program on Decreasing Work-Related Musculoskeletal Disorders Risk among Video Display Terminals. *Health Promotion Perspectives*, Vol. 2, No. 1, 2012; P: 89-95.
  54. Y.rasoulzadeh, S.B. Mortazavi, A.A. Yousefi and A. Khavanin. Decreasing Polycyclic Aromatic Hydrocarbons Emission from Bitumen Using Alternative Bitumen Production Process. *Journal of Hazardous materials*, 185 (2011), 1156-1161.

55. Y.rasoulzadeh, S.B. Mortazavi, A.A. Yousefi, A. Khavanin, and A. Kazemnejad. Effect of Recycled Waste polymers, Natural Bitumen and HVS Cut on the Properties of Vacuum Bottom. Iranian Journal of Polymer Science and Technology, 2010; 23(1): 85-95(In Persian).
56. Mortazavi S.B., Rasoulzadeh Y., Yousefi A.A. and Khavanin A., Properties of Modified Bitumen Obtained from Vacuum Bottom by Adding Recycled Waste Polymers and Natural Bitumen. Iran. Polym. J., 19, 197-205, 2010.
57. J.M. Kanaani, S.B. Mortazavi, A. Khavanin, R. Mirzai, Y. Rasoulzadeh and M. Mansurizadeh. Foot Anthropometry of 18-25 Years Old Iranian Male Students. Asian Journal of Scientific Research, 2010.
58. M. Kanani Jos, S.B. Mortazavi, A. Khavanin, R. Mirzai, Y. Rasoulzadeh. COMPARISON OF FOOT ANTHROPOMETRIC MEASUREMENTS IN TWO DIGITAL AND MANUAL APPROACHES. Journal of Ilam University of Medical Sciences, 2008; 16 (3), 1-10(In Persian).

#### **Papers Presented in National & International Conferences (from the most recent)**

1. Rasoulzadeh Y, Gholamnia R, Ghaffari Sotubadi M. Temporary employment and its adverse effect on safety and health programs in developing countries. XIX World Congress on Safety and Health at Work, September, 11-15, 2011, Istanbul, Turkey.
2. Rasoulzadeh Y, Mortazavi SB, Yousefi AA, Khavanin A. Control Practices for Reducing Exposures to Asphalt Fumes during the Manufacture of Asphalt Roofing Products. 1st International Bitumen Conference. October 18-20, 2008, Tehran-Iran.
3. Rasoulzadeh Y, Mortazavi SB, Yousefi AA, Khavanin A. Health effects of occupational exposure to asphalt fumes. 1st International Bitumen Conference. October 18-20, 2008, Tehran-Iran.
4. Y Rasoulzadeh, S.B Mortazavi, A Khavanin, H Asilian, and R Gholamnia. To Survey the Effectiveness of an Ergonomic Educational Program on Decreasing the Risk of Musculoskeletal Disorders among VDT Users. INTERNATIONAL CONFERENCE ON ERGONOMICS (ICE) December 3-5, 2007, Kuala Lumpur, Malaysia.
5. Reza Gholamnia, Manochehr Omidvari, Yahya Rasoulzadeh. Evaluation of Occupational Exposure to Tobacco Dusts and Survey of Prevalence Respiratory Symptoms among Tobacco Workers. Eleventh International Congress of Toxicology (ICT X). July 15 – 19, 2007 Montreal, Canada.
6. Reza Gholamnia, Manochehr Omidvari, Yahya Rasoulzadeh. Evaluation Occupational Exposure to Asbestos Fiber and its Respiratory Effects on Workers in Production Factory, Eleventh International Congress of Toxicology (ICT XI). July 15 – 19, 2007 Montreal, Canada.
7. Joze Kanaani Masoomah, Sayyed bagher Mortazavi, Ali Khavanin, Yahya Rasoulzadeh, and Moharram Mansurizadeh. The Comparison between Photography and Manual Method for Anthropometry. INTERNATIONAL CONFERENCE ON ERGONOMICS (ICE) December 3-5, 2007, Kuala Lumpur, Malaysia.
8. Y. Rasoulzadeh, R. Gholamnia To Survey Incidence Rate of musculoskeletal Disorders Among Taxi Drivers in Uremia city. 17<sup>th</sup> International Symposium on Epidemiology in Occupational Health. Carlton Crest Hotel, Melbourne, 2004.
9. R. Gholamnia, Y. rasoulzadeh, G. Hosieni, I. Mohebi, S. sanati Monitoring of Occupational Noise Exposure and Assessment Audiometry Ability for Workers in a Cement Factory. 17<sup>th</sup> International Symposium on Epidemiology in Occupational Health. Carlton Crest Hotel, Melbourne, 2004.

10. R. Gholamnia, Y. rasoulzadeh, E. shirinzadeh, M. Rezaian. Prevalence of Respiratory Diseases and Hearing Loss Among Workers in a Ship Building. 17<sup>th</sup> International Symposium on Epidemiology in Occupational Health. Carlton Crest Hotel, Melbourne, 2004.
11. R. Gholamnia, S.B. Mortazavi, H. Asilian, A. Khavanin, Y. Rasoulzadeh. Are the Asbestos substitutes Hazardous as Well?. Global Asbestos Congress in Tokyo. 2004