Saeid Ahmadi

Department of Occupational Health and Safety, Faculty of Health, Qazvin University of Medical Sciences, Bahonar Blvd, Qazvin, Iran

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University: http://sph.qums.ac.ir/Portal/home/

Scopus: https://www.scopus.com/authid/detail.uri?authorId=57192714937 H Index:3

Google Scholar: https://scholar.google.com/citations?user=UqQdKa0AAAAJ&hl=en

Google Scholar	All	Since 2013
Citations	37	36
h-index	4	4
i10-index	1	1

Personal profile:

Highly experienced in designing, coordination and performing industrial and environmental noise control projects. Significant expertise and experience in measurement and analysis of physical agents at workplaces. Knowledgeable occupational health and safety trainer with significant experience on training in numerous organization and industries.

Proactive lecturer and researcher with 10+ years of experience teaching courses on undergraduate and postgraduate levels. Passionate about applying science and knowledge in real word and doing research based on the necessity of community and industry, to produce novel products. A committed, knowledgeable and capable Researcher, Published over 20 articles in peer-reviewed journals.

Education:

2011-2015 PhD, Occupational Health and Safety

Department of Occupational Health and Safety, Tehran University of Medical Sciences, Tehran, Iran
Thesis: Preparation and optimization of ABS –Nano clay nanocomposite acoustic properties and feasibility study of their applicability in hearing protection Ear Muffs
Supervisor: Prof. Parvin Nassiri

2003-2006 **MSc, Occupational Health and Safety**

Department of Occupational Health and Safety, Tehran University of Medical Sciences, Tehran, Iran
Thesis: Fire and Explosion Risk Determination by DOW's F & E Index System in a Petrochemical Industry
Supervisor: Dr. Javad Adl

1998-2002 **BSc, Occupational Health and Safety**

Department of Occupational Health and Safety, Hamedan University of Medical Sciences, Iran

Experiences:

- **Teaching Experience**

2015 – Present **Assistant Professor, Department of Occupational Health and Safety, Qazvin University of Medical Sciences, Qazvin, Iran**

Delivering teaching sessions on BSc, Courses: Heat stress at work, light at work, Industrial Noise Technical Language, Safety at Work, Introduction to Health and Safety at Work

Delivering teaching sessions on MSc, Courses : Designing of heat control equipment, Modeling in Occupational health, Light design at workplaces

Implementation of Laboratory courses: Noise and Vibration measurement, Noise Control, Heat stress Measurement and Light measurement and design

Supervising postgraduate dissertations: Number of students 3
Co- Supervising postgraduate dissertations: 3

Teaching material designed and fabricated: Expansion and Dissipative Silencer, Acoustic Enclosure

2017 **Guest Lecturer, Department of Occupational Health and Safety, Tehran University of Medical Sciences, Tehran, Iran**

Delivering teaching sessions on BSc. Courses: Industrial Noise and Vibration, Health Effects of Radiations

2007 – 2011 **Instructor, Department of Occupational Health and Safety, Qazvin University of Medical Sciences, Qazvin, Iran**

Delivering teaching sessions on BSc. Courses: Supervision of industrial internship, Noise and Vibration at work, Industrial Accidents, Machinery Safety, Industrial Safety, Air Pollution at work, Industrial hygiene services

Curriculum Planning and implementation Laboratory courses: Noise Survey,

Safety

2007- 2009 **Guest Lecturer, Department of Industrial Engineering, Kar University of Qazvin, Qazvin, Iran**

Delivering teaching sessions on BSc. Courses :Fire safety, Industrial safety, Boilers and pressure vessels safety, Accident investigation and Analysis, Physical and Chemical agents at work,

2006 **Instructor, Department of Occupational Health and Safety, Shahrod University of Medical Sciences, Shahrod, Iran**

Delivering teaching sessions on BSc, Courses: Industrial toxicology, Air pollution control, Work accidents, Occupational hygiene services

- **Selected Past Research Experience**

Project Title	Role	Year	Source of Fund	Status
Investigating acoustic performance of a hybrid reactive-dissipative silencer with various configurations to attenuate centrifugal fan noise	Project Leader	2019	QUMS	Ongoing
Design and manufacturing of an expansion chamber muffler to attenuate the pulsation noise of a piston compressor	Project Leader	2019	QUMS	Ongoing
Design and manufacture of multiple jet nozzles for compressed air noise control and optimal nozzle selection	Project Leader	2018	QUMS	Completed
Design, manufacturing and performance assessment of partial acoustic enclosure in controlling the sound of punch presses	Project Leader	2018	QUMS	Ongoing
Evaluation of effective parameters on designing of dissipative Silencer for mitigate the noise generated by the turbulent flow in centrifugal fans	Co-researcher	2018	QUMS	Ongoing
The evaluation of the rate of sound, violations and quality of life in linear taxi drivers in Qazvin city	Co-researcher	2018	QUMS	Ongoing
Design, fabrication and evaluation of dissipative silencer for control noise caused by the turbulent flow centrifugal fan	Project Leader	2017	QUMS	Ongoing
Evaluating microwave radiation of BTS antennas and its effect on the health of residents around antennas in the city of Qazvin 2016-17	Co-researcher	2017	QUMS	Ongoing
Assessment of air blow gun noise control using multiple jet nozzles	Project Leader	2016	QUMS	Completed
Water pump noise reduction using acoustic curtains in a residential building of Qazvin city	Project Leader	2016	QUMS	Completed
Preparation and optimisation of ABS - clay nanocomposites and feasibility study of their applicability in hearing protection Ear Muffs	Project Leader	2014	TUMS	Completed

Assessment of occupational noise exposure and hearing loss among car smoothers in Qazvin	Project Leader	2008	QUMS	Completed
Assessment of occupational noise exposure and hearing loss among door and window makers in Qazvin	Project Leader	2008	QUMS	Completed

- **Professional Experience**

Industrial and Environmental Projects on Noise Reduction

Project Title	Date	Organization	Position	Achievements
Design, Fabrication and Installation of Expansion - Dissipation Silencer on Reciprocating Compressor	2018 Sep	Pars Oxygen, shiraz, Iran	Project Leader	Complying with Environmental Noise Limit
Common wall and elevator wall noise reduction in an apartment	2017 Oct	Private Apartment	Project Leader	Complying with Noise Limit in Building
Vacuum pump noise reduction through design and fabrication of acoustic enclosure	2017 Sep	Karton Iran Company, Tehran, Iran	Project Leader	Complying with Occupational Noise Limit
Whole Body Vibration measurement on lift truck drivers	2017 Sep	Sanie Baft and Afra, Qazvin, Iran	Project Leader	Vibration survey based on standard methods
Plastic granule mill(grinder) noise reduction through designed acoustic curtain and enclosure	2017 Aug	Plastonic Co, Sari, Iran	Project Leader	Complying with Occupational Noise Limit
Punch press vibration Feeder noise reduction through acoustic enclosure, design and fabrication	2017 Jun	Alborz Chelick Co, Qazvin, Iran	Project Leader	Complying with Occupational Noise Limit
Copper wire Mill noise reduction, Acoustic enclosure	2017 Jul	Donyaie mess Co, Kashan, Iran	Project Leader	Complying with Occupational Noise Limit
Water pump noise reduction in a residential building, Acoustic enclosure	2016 Jul	Private Building, Qazvin, Iran	Project Leader	Complying with Environmental Noise Limit
Grinder, Blower, Centrifugal fans and … noise reduction with designed and fabricated acoustic curtains for enclosing noise sources	2016 Sep	Poly Baft Co, Mazandaran, Iran	Project Leader	Complying with Occupational Noise Limit
Design and Fabrication of Multiple jet nozzles for reducing compressed air noise propagated from open pipes in a chemical process	2016 Sep	Razi Chemical Co, Karaj, Iran	Project Leader	Complying with Occupational Noise Limit
Air Blow Guns noise reduction through design and fabrication of multiple jet nozzles	2016 Sep	Paya matein sanjesh Co, Saveh, Iran	Project Leader	Complying with Occupational Noise Limit
Air blowing hose noise reduction in car seat production process through multiple jet nozzles	2016 Aug	Erish Khodro Co, Qazvin, Iran	Project Leader	Before: 109 dBA After: 91 dBA
Lift truck drivers whole body vibration measurement	2016 Jan	Pars Aloman Kar Co, Qazvin, Iran	Project Leader	Vibration survey based on standard methods
Ball mill machine noise reduction through e design, fabrication and installation of moveabl acoustic curtains	2016 Jan	Dastkesh Hareir Co, Qazvin, Iran	Project Leader	Before: 95 dBA After: 80 dBA

Ergonomic risk assessment and the relationship between cycle time and incidence of musculoskeletal disorders in a melting and casting factory	2015 Sep	Balein tech Co, Qazvin, Iran	Project Leader	Determination of Risk factors

Training Courses and Workshops on Industrial noise Control and Assessment

Title	Date	Trainee	Organization
Noise pollution and Control Methods	2018 Oct	Environmental Engineers	National Gas Company, Tehran, Iran
Industrial Noise Control	2018 Oct	Occupational health and safety specialists	Behbahan University, Behbahan, Ahvaz, Iran
Principles of noise measurement	2018 Sep	Technical managers of industrial health private companies	Health deputy of QUMS, Qazvin, Iran
Industrial Noise and Vibration Control	2018 Aug	Operational and Technical Experts	Bandar Abbas Oil Refinery Co, Bandar Abbas, Iran
Industrial Noise Control in Oil Refinery	2018 Jan	Operational and Technical Experts	Lavan oil Refinery, Lavan, Boshehr, Iran
Engineering Noise Control	2018 Mar	HSE Experts	Esfahan Atomic Energy Co, Esfahan, Iran
Industrial and environmental noise mapping	2018 Jan	HSE Experts	6th national conference on management of air and noise pollution, Tehran, Iran.
Industrial and environmental noise mapping	2017 Apr	Occupational health and safety specialists	10th national conference on safety and health at work, Geilan, Iran.
Industrial Noise and Vibration Control	2016 Aug	Occupational Health Inspectors and Specialists	Health deputy of KUMS, Kashan, Iran
Industrial Noise Control	2016 Sep	Occupational Health Inspectors and Specialists	Health deputy of QUMS, Alborz, Qazvin, Iran
Noise Control in Oil, Gas and petrochemical Companies	2015 Dec	Operational and Technical Experts	Iranian Gas National Co, Tehran, Iran
Occupational Noise Control	2015 Nov	Occupational Health Inspectors	Health deputy of QUMS, Qazvin, Iran
Noise Management in Industries	2010	Occupational Health Inspectors	Health deputy of QUMS, Qazvin, Iran

Feb 2011 – Sep 2015 Occupational Health and safety Trainer

Performing training courses on various subjects of occupational health and safety in numerous organization, Iran.

Course titles: Process safety, Working at Height Safety, Construction Safety, Risk Assessment and Management, Behavioural based safety, Human error in process industries, Machinery Safety, Crane Safety, ergonomic, accident analysis and

investigation, Physical and chemical agents at work, Hazardous material and Diseases related to workplace physical agents" for General Practitioners and …

Nov 2012 – Oct 2015 **Technical Supervisor of Occupational Health, Part time**

Pirayesh Sanat Sabz Limited Co, Qazvin, Iran

Jul 2007 – Aug 2007 **Occupational Health and Safety Specialist**

Tehran Oil Refinery, Tehran, Iran

Jul 2004 - Sep 2007 **Occupational Health and Safety Specialist, Part Time Job**

Alhadeid Industry, Tehran, Iran

May 2003 - Jul 2004 **Occupational Health and Safety Specialist, Part Time Job**

Khaneh Beton, Tehran, Iran

May 2003 - Jul 2004 **Occupational Health and Safety Specialist, Part Time Job**

Alomsa, Saveh, Iran

- **Academic and administrative experience:**

Journal Reviewer of Occupational Safety at Health at Work Journal (2016 – Present)

Journal Reviewer of International Journal of Occupational Hygiene (2016 – Present)

Journal Reviewer of Jundishapur Journal of Health Sciences (2016 – 2017)

Membership on academic committee of 10th National Occupational Health and Safety at Work Congress (2017)

Membership on academic and administrative committee of 7th National Occupational Health and Safety at Work Congress (2011)

Memberships on Iranian Occupational Health Association (2010 – Present)

Membership on Industrial Relations Office of QUMS, Qazvin, Iran (2015 – Present)

Membership on Environmental Physical Agents Department, Environmental Research Center, TUMS, Tehran, Iran (2016 – Present)

Head of department of Occupational Health and Safety at Work, QUMS, Qazvin, Iran (Jun 2008 – Feb 2011)

- **Publications:**

Peer- reviewed Publications

1) S Zare, N Hasheminejad, S Ahmadi. A comparison of the correlation between ESI and other thermal indices (WBGT, WBDT, TWL, HI, SET, PET, PSI and PSIHR): A field study. Journal of health scope. In Press ; 2018 Oct
2) S Ahmadi, S Zare, R Ghanbari, S Bahrami. The effect of increased manufacturing rate on risk of low back pain. Journal of paramedical sciences. 9(3); 2018
3) Khavanin A, Jonidi Jafari A, Ahmadi S, Zaroushani V. A Review on Administrative Controls to Radiofrequency and Microwave Radiation based on recommendations of International Organizations. Iran Occupational Health. 15(3); 2018
4) S Zare, N Hasheminejad,H Elahi,D hasanvand, S Ahmadi. Assessing individual and environmental sound pressure level and sound mapping in Iranian safety shoes factory. Romanian journal of Acoustic and Vibration, Vol 15(1)2018
5) S Zare, MR Baneshi, R Hemmatjo, S Ahmadi. The effect of occupational noise exposure on serum cortisol concentration of night shift industrial workers: A field study. Safety and health at work, 25 July 2018
6) Z Jamalizadeh, A safari variani, S Ahmadi. The association between road traffic noise exposure and annoyance.Journal of air pollution and health.3(1);winter 2018
7) A Dastamoz, A Safari, S Ahmadi*. Evaluate the noise reduction performance of multiple jet nozzles with slot and circular exits for compressed air noise control. Advances in mind-body medicine, Acceptance,April 2018
8) S Ahmadi, P Nassiri, I Ghasemi, M Monnazam. Acoustic performance of 3D printed nanocomposite earmuff. Global Journal of Health Science,Vol 8(1) 2014
9) S Ahmadi, P Nassiri, I Ghasemi, M Monnazam . Sound transmission loss of nanoclay reinforced polymers. Iranian polymer journal, June 2015
10) P.Heydari, S.varmazyar, S.Ahmadi, S.S Alizadeh. Evaluating the semi quantitative risk of occupational exposure to the chemicals in one of the petrochemeical industries.Scientific journal of Review. 5(7);2016.
11) S zare, N hasheminejad, S ahmadi. The relationship between mental workload and general health among welders of Tehran heavy structures metal company. Journal of paramedical sciences.Vol.7,No.4, Autumn 2016
12) A.Safari Variani, S.Ahmadi*, S.Zare, AS.Beheshti. Air blow guns noise reduction through design and fabrication of a multiple jet nozzle. Iran Occupational Health.15(3),2018

13) A.Safari Variani, S.Ahmadi*,S.Zare, V.Zaroshani.Water pump noise control using designed acoustic curtains in a residential building of Qazvin city. Iran Occupational Health.15(1);2018
14) S.Zare, N Hasheminejad, H Elahi sheirvan, S Ahmadi. Comparing Universal Thermal Climate Index (UTCI) with selected thermal indices/environmental parameters during 12 months of the year. Weather and Climate Extremes,19(2018)
15) S.Zare, N.Hasheminejad, T.Dehesh, D.Hasanvand, S.Ahmadi,R.Hemmatjo. The Relationship between Mental Workload and Prevalence of Musculoskeletal Disorders among Welders of Tehran Heavy Metal Structures Company in 2016. Journal of Biology and today's world.5(12);2016.
16) S.Zare, MR.Monazzam, M.Behzadi, D.Hassanvand, S.Ahmadi*. Hearing loss among fasa sugar factory workers',fars province,Iran(2016).Journal of Occupational Health and Epidemiology,6(2);Spring 2017.
17) M.Lotfi, M.R Monazzam, N,Mansouri, S.Ahmadi*. Investigating noise pollution induced by diesel generators in building construction activities in one of the district of Tehran city. Journal of safety and health at work.,8(2); 2018
18) S.Ahmadi, A.A Karboro, M.Einanlo, H. Aubi Zadeh. Occupational noise exposure and hearing loss among car smoothers in Qazvin. Iran Journal of health and environment.3(4);2010
19) S.Ahmadi, J. Adl, S,Varmazyar. Risk quantitative determination of fire and explosion in a process unit by DOW's fire and explosion index. Iran Occupational Health. 5(1,2);2008
20) S.Varmazyar, F.Torkaman, S.Ahmadi, F.Zarei. Assessment of labour situation and prevalence of muscular skeleton disorders among chain grocery store workers in Qazvin in 2009 and applied control suggestion. J of rafsanjan university of medical sciences. 9(2); 2010
21) S.Ahmadi, J.Adl, M.Ghalenovi. Relative ranking of fire and explosion in a petrochemical industry by fire and explosion index. J Qazvin Univ Med Sci. 14 (4); 2011
22) A.Ahmadpour, R.Beigdeli, S.Ahmadi. Assessment of accident prevalence in Qaznin city,2009.Scientific journal of edrak.5(19);2009
23) S.Ahmadi, J.Adl, M.Mirzaei, M.Zarei. Determination of fire and explosion loss in a chemical industry by fire and explosion index. J Qazvin Univ Med Sci. 15(4);2012

Works submitted and works in Progress

24) Impact of absorption material density and perforated duct porosity on noise reduction of dissipative silencers: an experimental study, Archives of Acoustics

- **Books:**

Ahmadi, S. **Noise Mapping Based on Surfer, Noise at Work and Arc GIS Software**. Fanavaran, Tehran, Iran (2018)

Ahmadi, S. Zare, S. **Principles of Equivalent Noise Level and Noise Sources Power Level Based on ISO 9612 and ISO 3746**. Fanavaran, Tehran, Iran (2018)

Farhang, S. Zare, S, Ahmadi, S. **Ergonomic and Human Factors Engineering**. Fanavaran, Tehran, Iran (2012)

Kazempour, M. Ahmadi, S. **Safety, Health and Environment**. Khaniran, Tehran, Iran (2011)

- **Conferences, Workshops and Seminars:**

Ahmadi, S. (2014 Dec). Noise insulation properties of ABS/Nano clay composites. Paper presented in the 4th International conference on Acoustics and Vibration, Tehran, Iran.

Ahmadi, S. Nassiri, P. Monazzam, M. (2015 May). Acoustic performance of 3D printed nanocomposite earmuff. Poster presentation on the second national Conference of nano technology and sciences, Tehran, Iran

Ahmadi, S. (2015 May). Acoustical and mechanical characteristics of an acoustic material fabricated by polymeric nanocomposite. Paper presented in the 9th national conference on safety and health at work, Yazd, Iran.

Ahmadi, S. (2017 May) Water pump noise control using acoustic curtains in a residential building of Qazvin city. Poster presented in the 10th national conference on safety and health at work, Geilan, Iran.

Ahmadi, S. (2016 Dec). Air blow gun noise reduction using advanced multiple jet nozzles. Poster presented in the 2nd conference on research for promotion of health society, Qazvin, Iran.

Ahmadi, S. (2016 Dec). Effect of wall painting on the illumination of nursing school in Qazvin university. Poster presented in the 2nd conference on research for promotion of health society, Qazvin, Iran.

Ahmadi, S. (2016 Dec). Occupational noise exposure and hearing loss among door and window makers in Qazvin. Paper presented in the 2nd conference on research for promotion of health society, Qazvin, Iran.

Ahmadi, S. (2018 Jan). Design and fabrication of dissipative silencer for centrifugal fan noise reduction. Poster presented in the 6th national conference on management of air and noise pollution, Tehran, Iran.

Ahmadi, S. (2018 Jan) Assessment of noise exposure and noise annoyance among taxi drivers of Qazvin city. Poster presented in the 6th national conference on management of air and noise pollution, Tehran, Iran.

Ahmadi, S. (2017 May). Air blow gun noise reduction through design and fabrication of a multiple jet nozzle. Poster presented in the 10th national conference on safety and health at work, Geilan, Iran.

Zare, S. Ahmadi, S. (2017 May). Relationship between Hearing loss and work experience, age and smoking among fasa sugar factory workers',fars province. Poster presented in the 10th national conference on safety and health at work, Geilan, Iran.

Ahmadi, s. (2008 Feb). Classification of fire and explosion risk in a petrochemical industry by fire and explosion index. Paper presented in the 2nd national conference on safety engineering and HSE management, Tehran, Iran.

Ahmadi, S. (2008 Apr). Determination of most probable fire and explosion loss in a chemical industry by fire and explosion index. Poster presented in the 1st conference on industrial safety, Occupational hygiene and environment in organizations, Esfahan, Iran.

Ahmadi, S.(2004 Apr). Road accident through drivers sleepiness. Paper presented in the 1st conference on health sciences, Esfahan, Iran.

Ahmadi, S. Determination of fire and explosion insurance premium by F&E index in a chemical industry. Poster presented in the 3rd conference on Experts and managers of HSE in oil ministry, Tabreiz, Iran.

Ahmadi, S. (2017 Apr). Oil release modeling by ALOHA software in an oil distribution company. Paper presented in 10th conference on novelties on health sciences, Tehran, Iran.

Ahmadi, S. (2018 Sep). Physical agents induced occupational diseases. Seminar presentation for medical practitioner, Qazvin, Iran.

- **Awards/Achivements**

2018 **Patent**, Ahmadi, S. Nassiri, P. Monazzam, M. Nanocomposite Hearing Protector Earmuff, Iranian Organization of Patents and Industrial Ownership

2011 2nd Grade of PhD University Entrance Exam

2004 6th Grade of MSc University Entrance Exam

- **Software Skills**

Solidworks

Comsol mulltyphysics

Noise at work, Noise mapping

Diallux