

Curriculum Vitae

Ahmad Nikpey

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EDUCATION

Ph.D., Occupational Hygiene. 2000 – 2005

Department of Occupational and Environmental Science,
University of Tarbiat Modares.

Adviser: Associate Professor. D. Sayed Bagher Mortazavie

- Interwoven the knowledge of engineering and microbiology in the field of environmental biotechnology. Familiarized with designing and construction bioreactors as well as conducting molecular biology and microbiological analysis and investigations.
- Research focused on Removal Methyl Tert Butyl Ether (MTBE) from air. Thesis addressed Removal Methyl Tert Butyl Ether (MTBE) from air By Combination Catalytic conversion and Biodegradation. Competent consortium and semi pure MTBE degrading bacteria were obtained and identified.
- Also we synthesized ZSM-5 zeolite from MFI group with a common laboratory instrument and studied the hydrolysis reaction of MTBE into biodegradable products.

M.S., Occupational Hygiene. 1998 - 2000

Department of Occupational and Environmental Science,
University of Tarbiat Modares.

Adviser: Associate Professor. D. Sayed Bagher Mortazavie

- Received extensive training in air pollution monitoring. Developed skills to conduct air pollution monitoring program and laboratory analysis techniques.
- Developed skills to work with laboratory instrument such as gas chromatography, spectrophotometer and ...
- Completed a thesis entitled “Quantitative and Qualitative evaluation Volatile Organic Compounds (VOC) in Tabriz Petrochemical ambient air.

B.S., Occupational Hygiene. 1993 - 1998

Department of Occupational Hygiene, Tehran University, Tehran, Iran.

Education in occupational hygiene

Field of research interest:

- 1- Green technologies for environmental and Industrial air pollution.
- 2- Environmental and Industrial air pollution Monitoring

My main research interests and expertise involve bioprocess engineering, Photo catalytic and Catalytic conversion, exciting areas in the fields of air pollution control and environmental engineering.

In bioprocess engineering, my research focuses on biological systems for air pollution treatment. A particular attention is given to Biotrickling filter, a novel cost effective technology, for the treatment of volatile organic compounds (VOCs) in contaminated air streams. In addition to studying the engineering aspects of biological treatment systems, an important part of my research in this field involves collaboration with microbiologists and biologists, focusing on the study of microbial communities in biological reactors. Catalytic Conversion recalcitrant compounds to biodegradable compounds are another field of my interest. My research interests are primarily on the application solid zeolite (H- ZSM-5) as a replace for conventional and often more expensive treatment technologies without formation of harmful by-products.

ACADEMIC EXPERIENCE:

Year: 2000-2004: Research and Teaching Assistant,

Year: 04/2009 :Assistant Professor of Occupational Health,

Year: 13/00 – present: Associate Professor of Occupational Health

Institution: Department of Occupational Hygiene Medical Science College, University of Qazvin

HONOURS AND AWARDS:

- 2005 - Top Researcher in Qazvin University
- 2007- First grade Teacher among Qazvin university teachers
- 2008 - Top Researcher in Qazvin University
- 2009- First grade Teacher among Qazvin university teachers
- 2012- First grade Teacher among Qazvin university teachers

PUBLICATIONS

A. Nikpey, Air Sampling and Instrumental Analysis,2012, by fanavaran publisher.

A. Nikpey, Industrial Ventilation for Occupational Hygiene, in press, 2013

A. Nikpey, A guide to lead control in workplace, www.markazsalamat.ir,
<http://IER.tums.ac.ir>,2012

A. JOURNAL AND PROCEEDINGS:

1. A. Nikpey , S.B. Mortazavi, A. Rezaee, H. Asilian, A. Khavanin and H. Kazemian, “ Methyl tert-butyl Ether (MTBE) Degradation by a Microbial Consortium”, American Journal of Environmental Sciences 1 (1): 69-73, 2005 ,ISSN 1553-345X.
2. A. Nikpey, S.B. Mortazavi, A. Rezaee, H. Asilian, A. Khavanin and H. Kazemian, “ Catalytic conversion of MTBE in contaminated waters”, Iranian Journal of chem. and chem. Eng. 24(1),2005.
3. A. Nikpey, M. Nikpey, " Isolation and Initial characterization of a Pure Cultures capable to Degradation Methyl tert- Butyl Ether(MTBE)" Iranian Journal of Public Health. Vol. 35, No. 3, pp.34-39, 2006.
4. A. Nikpey, M. Nikpey H. Kazemian," Removal of Methyl tert- Butyl Ether (MTBE) vapour from contaminated air streams, by using different Bacterial cultures in biotrickling filters" Iranian Journal of Environmental Health Science & Engineering. Iran. J. Environ. Health. Sci. Eng., Vol. 3, No. 2, pp. 117-122, 2006.
5. A. Nikpey, S. B. Mortazavie, H. Kazemian, H. Asilian, A. khavanin, A. Rezaee,” Biotrickling Filter of Contaminated Air with Methy Tert Butyl Ether Using Lava Rock Media” Journal of Applied Sciences Research, 2(7): 418-422, 2006, INSInet Publicatilon

6. A. Nikpey, H. Kazemian, ³M. Sadeghi "Remediation of Methyl Tert-Butyl Ether(MTBE) Contaminated Water by Using Insitu Catalytic and Biological Combined Technics" American Journal of Environmental Sciences 4 (6): 717-722, 2008. ISSN 1553-345X
7. A. Nikpey, M. Sadeghi "Aerobic Biodegradation of Per-Treated Methyl Tert-Butyl Ether By Ozonation in an Up-Flow-Fixed-Bed Reactor" American Journal of Environmental Sciences 5 (3): 304-310, 2009. ISSN 1553-345X
8. A. Karimi, F. Golbabaie, M. Neghab, M. R. Mehrnia, K. Mohammad, M. R. Pourmand, A. Nikpey, Investigation of Oxygen Transfer in a Two-phase Partition Stirred Tank Bioreactor in the Presence of Silicone Oil" Chem. Biochem. Eng. Q. 25 (2): 209–219,2011.
9. S. Asefzadeh, MH. Yarmohammadian, A. Nikpey, G. Atighechian. Clinical risk assessment in intensive care unit. Int J Prev Med 2013;4:592-8
10. A. Nikpey, H. Kazemian, A. Safari-Varyani, M. Rezaie, M. Sirati-Sabet. Protective Effect of Microporous Natural Clinoptilolite on Lead-Induced Learning and Memory Impairment in Rats. Health Scope. 2013; 2(1): 52-7. DOI: 10.5812/jhs.10041
11. F. Zarei, B. Rajaei, A. Nikpey, S. Varmazyar, A. Safari Variiani, Review the proportion of university seats with body dimensions of students at the School of Public Health of Qazvin University of Medical Sciences in 1388, Iran Occupational Health, Vol. 8, No. 3, Autumn 2011. pp-39-40.
12. S. Varmazyar, A. Sayrafi, A. Nikpay, Assessing the recommended weight limit in manual carrying of loads in packaging lines of a factory in Qazvin JQUMS, Vol.15, No.2, Summer 2011, pp. 78-85
13. V. Zaroushani, A. Safari Varriani, SA. Ayati, A. Nikpey, Risk assessment in a foundry unit by energy trace and barrier analysis method (ETBA), Iran Occupational Health, Vol. 6, No. 4, 2010.
14. A,R. Koohpaei, F. Golbabaie, SJ. Shahtaheri, A. Nikpey, B. Frazinnia, Evaluation of Nuisance Dust Health Effects on the Workers in a Tile Industry, 2008, Qom University of Medical Sciences Journal Vol.2 ,No.2, PP43-48.
15. A. Safari Variiani, A. Nikpay, M. Emamjomeh. Study of noise pollution in Qazvin (2010) JQUMS, Vol.15, No.1, 2011, pp.63-69

16. A. Nikpay, A. Safari Variani, M. Ghalenoei, M. Emamjomeh, Comparison of equivalent noise pollution and traffic noise index in different cities of Qazvin province, 2010, JQUMS, Vol.16, No.4, Winter 2013, pp.69-74

17. A. Nikpay, H. Setareh, A. Safari, Methyl Iodide gas Removal From the Air by Activated Carbon Impregnated with Amine Salts, 2012 Tolooe Behdasht, Vol.11, No.2,

18. A. Nikpey, M. Khalaj, N Yaghubi Bazargani, YA. Gugir Chegeni, M Ziyayiha, The Study of Refractive Errors among Carpet Weavers in Rural Sephidehkesh of Qazvin. Qom University of Medical Sciences Journal 2012;6(3)

B. CONFERENCES:

1. A. Nikpey, S. B. Mortazavie, H. Kazemian, H. Asilian, A. khavanin, A. Rezaee, and A. solemanian Catalytic Conversion of MTBE to biodegradable chemicals in contaminated water”, 7th national congress on environmental health, sep. 14-15, 2004 Shahr-e-Kord,

2. A. Nikpey, S. B. Mortazavie, H. Kazemian, H. Asilian, A. khavanin, A. Rezaee, and A. solemanian “ Design and manufacturing of a dynamic concentration makeup system for gas and chemical vapors” 3th national congress on occupational hygiene & safety hamadan Iran, 2004.

3. A. Nikpey, H. Kazemian “Synthesize and Characterization of MFI Group Zeolites (Catalysts) with different Si/Al Ratio”, 12th symposium of the society of Crystallography and mineralogy of Iran (12th CMC), Shahid Chamran University, Faculty of Science, February 2-3 Ahvaz Iran, 2005.

4. A. Nikpey, Hossein Kazemian, “Synthesis and characterization of strong acidic zeolite catalysts with different Si/Al ratios”, Seventh European Congress on Catalysis, EuropaCat-VII, 28 Aug - 1 Sept 2005, Sofia, Bulgaria.

5. A. Nikpey, Hossein Kazemian, “Catalytic Conversion of MTBE to biodegradable Chemicals in contaminated water”, Seventh European Congress on Catalysis, EuropaCat-VII, 28 Aug - 1 Sept 2005, Sofia, Bulgaria .

6. A. Nikpey, H. Setareh, A. Kohpaie. “Method Develop for risk assessment in Fire Risk Analysis” 1st national congress on Ports Safety, 2004 .Tehran.

7. A. Nikpey, M. Nikpey, H. Kazemian, "Treatment of Methyl *tert*-Butyl Ether(MTBE)Vapors in Biotrickling Filters", 8th national congress on environmental health. Nov8-10, 2005, Paper WW1058. Tehran.I.R.IRAN.
8. A. Nikpey, Hossein Kazemian, Conversion of MTBE to biodegradable chemicals in contaminated water by Permeable Reactive Barriers "TOCAT 5, Fifth Tokyo Conference on advanced catalytic science and technology, July 23-28, 2006, Tokyo.
9. A. Nikpey, H. Setareh, A. Kohpae " The Presentation of Safety Process management pattern with Safety Instrumented Systems(SIS)" 1st National Congress of Safety Engineering & HSE Management- Sharif University, 2006. Tehran.I.R.IRAN.
10. A. Nikpey, H. Setareh, A. Kohpae " The Presentation of Integrated Risk Management Pattern in Chemical Material Transportation with HSE approach"2nd National Congress of Safety at Ports, 2006. Tehran.I.R.IRAN.
11. A. Nikpey, H. Setareh, A. Kohpae "The Survey of Pneumoconiosis at Mine & Mine Industries in view points of Economic Considerations"6th Health, Safety & Environment Congress in Mine & Industrial Mining, 2006. Tehran.I.R.IRAN.
12. A. Nikpey, "Bioprocessing of Methyl *tert*-Butyl Ether (MTBE) Vapors in Gas/Vapor-Phase Bioreactors" 1th Applied Microbiology, 2007, ALZAHRA University. Tehran.I.R.IRAN.
13. A. Nikpey, H. Kazemian, H. Setareh, A. Kohpae, "Remediation of MTBE Contaminated Water by Combination Catalytic and Biological Technics" 10th national congress on environmental health. Oct:29-31, 2007, Hamadan..I.R.IRAN.
14. A. Nikpey, F. Bonyadie, "Substrate Interactions in BTX and MTBE degradation by Bacterial Consortium" 10th national congress on environmental health. Oct:29-31, 2007,. Hamadan..I.R.IRAN.
15. A.Safarie, Z.Mohamadpoor, M.Dowlatie, A.Nikpey, A.Jahanie hashemie, study of mobile phone radiation Effects with a frequency of 950 MHz on the memory of mice, 6th National Congress on Occupational Hygiene,2009, Tehran University, IRAN.
16. H. Setareh, A. Toloie, A.Nikpey, Design of integrated HSE Risk Management model, based on fuzzy logic approach to chemicals, 6th National Congress on Occupational Hygiene,2009, Tehran University, IRAN.
17. A.Nikpey, F.Bonyadie, Biodegradation of MTBE and BTEX compounds by microbial consortium by γ -Proteobacteria family, 6th National Congress on Occupational Hygiene,2009, Tehran University, IRAN.

- 18.** V. Zaroushani, A. Safari Varriani, SA. Ayati, A. Nikpey, Risk assessment in a foundry unit by energy trace and barrier analysis method (ETBA), 2th Safe Community Conference,2010Tehran IRAN. Occupational Health, Vol. 6, No. 4, 2010.
- 19.** A. Nikpey, A. Safari-Varyani, M. Rezaie, Protective Effect of Microporous Natural Clinoptilolite on Lead-Induced Learning and Memory Impairment in Rats. 7th National Congress on Occupational Hygiene,2011, Qazvin University, IRAN.
- 20.** A. Safari Variani Emamjomeh A. Nikpay, M. Emamjomeh, M. Ghalenoie, Study of noise pollution in Qazvin (2010) 7th National Congress on Occupational Hygiene,2011, Qazvin University, IRAN.
- 21.** A. Nikpey, M. Khalaj, The Study of Refractive Errors among Carpet Weavers in Rural Sephidehkish of Qazvin. 7th National Congress on Occupational Hygiene,2011, Qazvin University, IRAN.
- 22.** A. Nikpey, H. Nadrie, F.Nadrie, M.Ghalenoie, evaluation of light intensity in the boys' Qazvin Medical University dormitories and provide recommended action, 7th National Congress on Occupational Hygiene,2011, Qazvin University, IRAN.
- 23.** B.Vafaiee, F. Zarei, A. Nikpey, S. Varmazyar, A. Safari Variani, Review the proportion of university seats with body dimensions of students at the School of Public Health of Qazvin University of Medical Sciences in 1388, 7th National Congress on Occupational Hygiene,2011, Qazvin University, IRAN.
- 24.** A. Nikpay, H. Setareh, A. Safari, M. Marzaniee, H.A.Jamalie, Methyl Iodide gas Removal From the Air by Activeated Carbon Imprignated with Amine Salts, 14th national congress on environmental health., 2011,Yazd University.IRAN.
- 25.** A .Nikpay, S. Sedigie A. Safari Variani, Protective effect of saffron on memory impairment in rats exposed to a magnetic field, first National Congress on Bio electromagnetic,2011, Qazvin University, IRAN.
- 26.** A .Nikpay, A. Safari Variani, N.A. abdollahie M. Ghalenoie. Waste Gas Treatment in BiofiltersVapors in Biotrickling Filters, 15th national congress on environmental health., 2012,Gilan University.IRAN.