



Personal

Bahram Nasernejad - CV

Nationality: Iranian

Date of birth:

Place of Birth: , Iran

Address: Chemical Engineering Department

Amir Kabir University (Tehran Polytechnic)

Hafez St., Tehran-Iran

Telephone: (021) 64543200

E-mail: banana@aut.ac.ir

Education

1985 Amirkabir University *Tehran , Iran*

B.Sc. in Petrochemical Engineering

1987 Amirkabir University *Tehran , Iran*

M.Sc. in Chemical Engineering (Mechanics & Heat Transfer.)

Thesis: Flame Stability and Fluid flow modeling in ramjet engine.

1996 Amirkabir University *Tehran , Iran*

Ph.D. in Chemical Engineering. Bio Technology

Thesis: Bioleaching of molybdenum from low grade Copper ore.

Academic Experiences

Associate Professor

1994 - 2000 Amirkabir University of Technology *Tehran, Iran*

Department of Chemical Engineering

Assistant Professor

1987 - 1990 Amirkabir University of Technology Tehran, Iran
Department of Chemical Engineering

Guest-Professor in Azad University, Faculty of Engineering (1974-1977).

Guest-Professor in Amirkabir University of Technology, mahshahr (2003-present).

Positions

Head of chemical Engineering Department, Amirkabir University of Technology. 2005-present.

Deputy Dean for research, Chemical Engineering Department, Amirkabir University of Technology, 2001-2003.

Member of Board of Education of chemical engineering department of Amirkabir university .2001-present

Member of Board of Food Industrial Research Center of Amirkabir university .2004-present

Membership

Member of Iranian Association of Chemical Engineers

Member of Iranian Food Science and Technology Association

Professional Activities and Projects

Temad Factory

Project Title Design & Constrictions of a Pilot Plant for production Medical Grade "NaCl

Project Director B. Nasernejad

Date 1981

Duration 24 Months

Temad Factory

Project Title Design & Constrictions of a Pilot Plant for Production Medical Grade "CaCO₃"

Project Director B. Nasernejad

Date 1981

Duration 24 Months

Shahid Faghihi Company

Project Title Design & Constrictions of a Pilot Unit for Making, Providing Iodine (so called Betadine)

Project Director B. Nasernejad

Date 1985

Duration 24 Months

National Petrochemical Company

Project Title Use of H₂S against DMDS in Dehydrogenation of MTBE units of bandaremam petrochemical co.

Project Director B. Nasernejad

Date 2006

Duration 12 Months

Project Title Feasibility study of use of cloroferic against of aluminum sulfate as coagulating agent in Bisoton power plant factory

Project Director B. Nasernejad

Starting Date 2006

Duration 24 Months

Shahid hashiminejad company.

Project Title Consideration of Amine recovery and stability of its gas sweetening plants.

Project Director B. Nasernejad

Starting Date 2006
Duration 24 Months

National Petrochemical Company

Project Title Biodegradation of styrene from wastewater of BDSR
unit of bandaremam petrochemical
Project Director B. Nasernejad
Starting Date Sept. 1991
Duration 24 Months

**Courses
Offered**

- **Transport Phenomena, Amirkabir University**
- **Fluid Mechanics, Amirkabir University**
- **Mass Transfer ,Amirkabir Universities**
- **Heat Transfer, Amirkabir Universities**
- **Unit Operation, Amirkabir Universities**

**Research
Interests**

- **HSE**
- **Wastewater Treatment**
- **Bioremediations**
- **Biosorption**
- **Biodegradation**

**Journal
Publications**

Karimi A., Tavassol A., Nasernejad, B., Kinetic studies and reactor modeling of single step H₂S removal using chelated iron solution, Chemical Engineering research and design -ICHEM E , 2010.

Zamir M., Halladj R., Nasernejad, B., Removal of toluene vapors using a fungal

biofilter under intermittent loading, PROCESS SAFETY AND ENVIRONMENTAL PROTECTION, 2010.

Zamir M., Halladj R., Ferdoosi M., Nasernejad, B., Removal of Toluene Vapors From Air Using A Fungal Biofilter Under Intermittent Loading , Iranian Association of Chemical Engineers, 2010.

Babae R., Bonakdarpoor B., Nasernejad, B., Kinetics of styrene biodegradation in synthetic wastewaters using an industrial activated sludge, Journal of Hazardous Materials, 2010.

Mohammadi A., Enayat Zadeh M., Nasernejad, B., Corrigendum to "Enzymatic degradation of anthracene by the white rot fungus Phanerochaete chrysosporium immobilized on sugarcane bagasse, Journal of Hazardous Materials, 2010.

Fallah N., Bonakdarpoor B., Nasernejad, B., The Use Of a Submerged Membrane Bioreactor for the Treatment of a Styrene Containing Synthetic wastewater, Iranian journal of environment health science and engineering, 2010.

Fallah N., Bonakdarpoor B., Nasernejad, B., Long-term operation of submerged membrane bioreactor(MBR)for treatment of synthetic wastewater containing styrene as volatile organic compound (VOC): effect of hydraulic retention time(HRT), Journal of Hazardous Materials, 2010.

Mehrdad M., Bonakdarpoor B., Nasernejad, B., The Use of Redox Mediators for Enhancing the Decolourisation of Orange G in a Sequencing Batch Reactor (SBR), International Review of Chemical Engineering (Rapid Communications), 2010.

Haghshenas D., Keshavarz E., Amooee M., Bonakdarpoor B., Nasernejad, B., Adaptation of Acidithiobacillus ferrooxidans to high grade sphalerite concentrate, Minerals Engineering, 2010.

Haghshenas D., Keshavarz E., Bonakdarpoor B., Nasernejad, B., Kinetics of sphalerite bioleaching by Acidithiobacillus ferrooxidans, Hydrometallurgy, 2010.

Emdadi L., Nasernejad, B., Optimization of Withering Time and Fermentation Conditions During the Manufacture of Black Tea Using a Response Surface Methodology, scientia iranica, 2009.

Mohammadi A., Nasernejad, B., Enzymatic degradation of anthracene by the white rot fungus Phanerochaete chrysosporium immobilized on sugarcane bagasse, Journal of Hazardous Materials, 2009.

Sephran, M., Nasernejad, B., Edrisi M., Selective Removal of Copper (II) and Nickel(II) From Aqueous Solution Using The Chemically Treated Chitosan :Factorial Design Evaluation, Metallurgical and Materials Transactions B, 2009.

Edrisi M., Rezaee R., Roodsaree M., B. Nasernejad, Synthesis of Nanoscale

Particles of Mn²⁺ -Doped Zinc Orthosilicate, 2009.

Edrisi M., Rezaee R., B. Nasernejad, Synthesis of Pure Magnetite Nanoparticles Using Microwave Hydrothermal and Sonication, Asian Journal of Chemistry, 2009.

Edrisi M., B. Nasernejad, Novel Method for the Preparation of Copper Phthalocyanin Blue Nanoparticles in an Electrochemical Cell Irradiated by Microwave, IJE Transaction A:Basics, 2009.

Sephran, M., Nasernejad, B., Copper Biosorption From Aqueous Solutions by Sour Orange Residue, Journal of Hazardous Materials, 2008.

Nasernejad, B., Isolation and Characterization of a New Acidithiobacillus Ferrooxidans From The Aliabad Copper Mine in Yazd Using 16s-23s Spacer Gene Nucleotide Sequencing Method, Journal of Sciences-Islamic Republic of Iran, 2008.

Nasernejad, B., Modares, H., Sanatifarvash, R., "Structural and partitioning Studies of Bovine Serum Albumin in Mixture of (Polyethylene glycol+K₂HPO₄+H₂O)", J.Chem.Eng.Data.2007

Nasernejad, B., "Copper Biosorption from aqueous solution by Sour Orange Residue" Journal of Hazardous Materials. 2007.

Nasernejad, B., Edrisi.,M., " Application of Taguchi L₄ Orthogonal Array for Optimization of Direct Preparation of (CuPhCG) Pigment", Afinidad, Jan. Feb. 2006.

Nasernejad, B., Hafezi, M., Vahabzadeh, F., "Optimization of Fermentation Time of Iranian Black Tea Production", Iran J. Chem.. Eng. Vol. 25. No.1, 2006.

Nasernejad, B., zomorodi, A. , "Comparison of MLP NN approach with PCA and ICA" , Iran. J. Chem. Eng. Vol. 25. No.1, 2006.

Nasernejad, B., Bonakdarpour, B.," Comparison for Biosorption modeling of heavy metals by carrot Residue" ,Process Biochemistry 2004.

Eslamzadeh,T., Nasernejad,B., Bonakdarpour,B." Removal of heavy metals from Aqueous solution by carrot Residues" J. of Iranian Science, Win (A1)2004.

Nasernejad, B., Edrisi, E., Sohrabi, M. Kaghazchi, T.," Bioleaching of Molybdenum from low grade copper ore" Journal of *Process Biochemistry*, Feb Vol (35)2000.

Nasernejad, B., Kaghazchi.,T. Sohrabi.,M., "Bioleaching of molybdenum from

molybdenum sulfide ore", process biochemistry 2000.

Nasernejad, B., Kaghazchi.,T. Sohrabi.,M. Bioleaching of copper sulfide ore 1996.

Razaghnia,M.,Nasenejad.B.,Bonakdarpour.B., Shojaosadati,S.A."Bioleaching of Sarcheshmeh Copper Ores by Moderately Thermophilic Microorganisms " Amirkabir university vol 2 .n60.2004

Conference Publications:

Environment safe emulsion carrier for dyeing of polyester fabric. Cairo international conference on energy and environment.Egypt 2007.

Synthesis and kinetic Studies of N,N –bis(2-hydroxyethyl)Oleamide and its application for the preparation of metal and metal oxide slurries. Cairo international conference on energy and environment. Egypt 2007.

An environmental safe process for the preparation of salt cake. Cairo international conference on energy and environment. Egypt 2007.

Optimization of Xanthan production by Xanthomonas campestris grown in wastage date extract. Cairo international conference on energy and environment. Egypt 2007.

Non-Linear Neural Network based Principal Component Analysis for reconstruction of Hidden Regulatory Signals in Biological Networks. The Seventh IASTED International Conference-SIP 2005.

Use of urea adduct crystallization technique to separate unsaturated fatty acids from the soap stock of the vegetable oil refinery plant. The 4th Asia pacific chemical reaction engineering symposium, 2005.

Transcritome based Determination of Multiple Transcription Factor Activities in Escherichia coil by using a Neural Network Approach, AKRRO5 international and interdisciplinary conference on adaptive knowledge 2005.

Direct method for drying and dehydration of sodium perborate aqueous solution and design the related fluidized-bed dryer. 54th Canadian Chemical

Engineering Conference 2004.

Comparison for biosorption modeling of heavy metals absorption from wastewater by carrot residues, Complex systems intelligence and modern technological applications (CSIMTA 2004).

Bioleaching of copper ore by moderate Temperature microorganisms. 52nd Canadian chem. Eng. Conference 2002

Copper bioleaching by moderately thermophilic microorganisms. 15th international congress of chemical and process eng (CHISA 2002).

Mathematical modeling for Biosorption of heavy metals. APC CHE 2002.

Removal of heavy metals from aqueous. APC CHE 2002.

“Sorption of lead by Sour-Orange husks from aqueous solution “The 11th Iranian National Chemical Engineering conference Oct. 2007.

“studying and Optimization of the effect of carbon , Nitrogen and phosphor concentration sources on Xantan production and cell growth in the wastage date extract” ,The 7th Iranian National Chemical Engineering conference Oct. 2006

Structural and partitioning Studies of Bovine Serum Albumin in two phase aqueous system “The 7th Iranian National biochemical –biophisic.July 2006

Removal of pollutants from aqueous medium with lingocellose wastage” The 10th Iranian National Chemical Engineering conference Nov. 2005

“Mathematical modeling of microbial reservoir” The 10th Iranian National Chemical Engineering conference Nov. 2005

“Uncovering Gene Regulatory Network from DNA-micro array Data for Escherichia coli using A Neural Network Approach” the second International Conference of Information and Technology, Tehran, Iran, may. 2005

“A comparison of PCA, ICA and neural network-based Approaches for determination for regulatori signals in biological systems “the second International Conference of Information and Technology , Tehran, Iran , may. 2005

Use of urea adduct crystallization technique to separate unsaturated fatty acids from the soap stock of the vegetable oil refinery plant.”, 15th National Congress of Food Industries, Tehran, Iran , Oct. 2004.

“Studying effect of temperature, pH and size of leaves in step on production

of color of Iranian Black Tea Production "15th National Congress of Food Industries, Tehran, Iran, and Oct. 2004.

"Effect of Temperature in Optimization of Fermentation step of Iranian Black Tea Production and comparative of methods in Iran" 7th Iranian National Chemical Engineering conference, Oct.

Determination of Osmotic Potential , Salt Accumulation and Mineral Nutrient Content in Salicornia europaea in Maharloo Region , 12th conference 2004

Analysis of Heavy metal in Salicornia europaea plants Grown in Maharloo Region "12th conference 2004

"Bioleaching of Sarcheshmeh Copper Ores by Moderately Thermophilic Microorganisms" 3rd National Congress of biotechnology, Tehran, Iran, Oct. 2003.

Removal of heavy metals by carrot Residue The 7th Iranian National Chemical Engineering conference, Iran, Oct. 2003.

"Application of Moderately Thermophilic Microorganisms in bioleaching of Sarcheshmeh copper ores "The 7th Iranian National Chemical Engineering conference Oct. 2002.

Removal of heavy metal from aqueous solution The 7th Iranian National Chemical Engineering conference, Oct. 2002.

"Drying of fruits (chips making) "13th National Congress of Food Industries, Tehran, Iran, Oct. 2002.

"Studying effects of electrical shocks on meat quality "13th National Congress of Food Industries, Tehran, Iran, and Oct. 2002.

"Studying of Extract of Glucose from egg for egg powder production "13th National Congress of Food Industries, Tehran, Iran, and Oct. 2002.

"Biosorption of heavy metal by caustic-treated yeast immobilized in alginate" The second National Congress of biotechnology, Tehran, Iran, Oct. 2001.

"Removal of heavy metal from aqueous Solution with Modified yeast "2nd National Congress of biotechnology, Tehran, Iran, Oct. 2001.

"Modeling and kinthic of Bioleaching of low grade Sulfide ore of sarcheshmeh copper ore "2nd National Congress of biotechnology, Tehran, Iran, Oct. 2001.

Non-Newtonian behavior of Blood in Flow in an Artery -AICHE 2000 Annual Meeting ,

" Isolation of thiobaciluse and liptosprillium from sarcheshmeh copper ore soil "6th Iranian National Chemical Engineering conference, Oct. 2001

"Biosorption of heavy metal "the second 2nd National Congress of biotechnology, Tehran, Iran, Oct. 2001.

"Mathematic Modeling of bioleaching of Molibdenium "7th Iranian National

Chemical Engineering conference, Oct. 2000

“Isolation of thiobaciluse and liptosprilium from sarcheshmeh copper ore soil “ the first Iranian National biotechnology conference, Oct. 1999

“Bioleaching of molybdenum from molybdenum sulfide ore “ 2nd Iranian National Chemical Engineering conference, Oct. 1996–

Kinethic studying of oxidation of iron ion by TBF Bacteria 4th Iranian National Chemical Engineering conference, Oct. . 2002

“ Isolation of heavy metal bacteria “ 4th Iranian National Chemical Engineering conference, Oct. 2002

Biosorption of heavy metal from waste water of electroplating units 4th Iranian National Chemical Engineering conference, Oct. 1998

“Bioleaching of molybdenum from molybdenum ore “of 2nd Iranian National Chemical Engineering conference, Oct. 2002.