Personal:
Name: Ghasem
Last Name: Najafpour D.

***Professor*, Faculty of Chemical Engineering, Noshirvani University of Technology, Babol, Iran**
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Faculty of Chemical Engineering, Noushirvani University of Technology, Babol, Iran

Objective:

Research and Teaching Position in my Profession, as Professor in Chemical Engineering and Biochemical Engineering

Academic qualifications:

Ph. D. Chemical Engineering	**University of Arkansas,** Fayetteville, Arkansas, USA	1983
M. Sc. Chemical Engineering	University of Oklahoma, Norman, Oklahoma, USA	1977
Undergraduate Courses B. Sc. Ch E.	University of Oklahoma, Norman, Oklahoma, USA	1976
B. Sc. Medical Technology	University of Isfahan, Isfahan, Iran	1972

Professional qualifications:

Visiting Professor	***The National University of Malaysia (UKM)***	Summer 2012
Professor	***Faculty of Chemical Engineering,*** Noshirvani University of Technology, Iran	2005– present
Associate Professor	***School of Chemical Engineering*,** Universiti of Sains Malaysia, Malaysia	1998 – 2005
Associate Professor	*Chemical Engineering Department*, University of Mazandaran, Iran	1995 – 1998
Assistant Professor	*Chemical Engineering Department*, University of Mazandaran, Iran	1983-1995
Visiting Professor, Sabbatical & Research Scientist	Chemical Engineering Department, University of Arkansas, USA	1990 -1993
Teaching Assistant	University of Arkansas, USA University of Oklahoma, USA	1981-1983 1976-1980

Membership and Professional Affiliations:

Editor in Chief, World Journal of Applied Science, an ISI Journal, since 2008. **www.wasj.org** & **www.idosi.org**
Editor in Chief, Iranica Journal of Energy & Environment, NUT, since 2006. www.nit.ac.ir,
www.idosi.org/**ijee**, www.IJEE.net
Editor of Journal of Environmental Chemistry and Ecotoxicology, Since 2007.
www.academicjournals.org/JECE/Editors
Editor in Chief, International Journal of Engineering, Iran, Since 2010. **www.ije.ir**
Editor in Chief, Middle East Journal of Scientific Research Board, www.idosi.org/mejsr/board.htm
Reviewers for more than 30 International journals.
Member of American Institute of Chemical Engineers, since 1982.
Member of Iranian Institute of Chemical Engineers since 1983.
Member of Malaysian Institute of Chemical Engineers since 2004-2005.
Member of Indian Chemical Society since 1998.
Editorial Board of International Journal of Engineering, Iran, 1995-1998, 2006-present.
Editorial Advisory Board of International Journal of Engineering, Iran since 1999- 2005.
Member of Chemical Engineering Committee Ministry of Culture and higher Education of Iran, 1995-1998.
Reviewer of Biotechnology Progress, American Chemical Society, 2003.

Reviewer of Biochemical Engineering Journal, Elsevier publisher, 2005.
Reviewer of Enzyme and Microbiological Technology Journal, Elsevier publisher, 2004.
Academic coordinator and representative of the Ministry of Power, Water & Power Industry of Iran at USM, 2004-2005.
Advisory Council of American Central University, USA, 2004.
Member of Iranian Society of Biotechnology since 2005.
Technical Director of Hexagon Synergy (M) SDN BHD, Biofuel Production Plant, Malaysia 2010-Present

Academic distinctions/awards:
Distinguished author of text book "Biochemical Engineering & Biotechnology". Awards for the best book of the year 2008. Amir Kabir University of Technology, Tehran, Iran.
The best researcher of the year appointed by Iranian's Ministry of Science, Technology and Innovation, 2006.
Gold Medal for the Invention/Innovation Competition, in research project: "Development of Electrocells for Separation and Extraction of Sugars by Electrodialysis of Hydrolyzate from Palm Oil Solid Wastes", EXPO Science, Technology & Innovation, Sponsored by Ministry of Science, Technology and Innovation Malaysia, Kuala Lumpur, 2004.
Silver Medal on Invention/Innovation Competition, for the research project: "Production of Bio-ethanol from Palm Oil Solid Wastes" EXPO Science & Technology, Sponsored by Ministry of Science and Technology, Kuala Lumpur, 2003.
Academic Award on Research Achievements, Chancellor of Universiti Sains Malaysia, 2004.
Academic Award on Research Achievements, Chancellor of Universiti Sains Malaysia, 2003.
Siler Medal on Invention/Innovation Industrial Design Technology, I.TEX 2003, Competition, for the research project: "Production of Clean Fuels from Synthesis Gas Using Bacteria, Kuala Lumpur, 2003.
Bronze Medal on Invention/Innovation Competition, for the research project: "Production of Hydrogen and Ethanol from Low-Value Synthesis Gas Using Biocatalysts", EXPO Science & Technology, Sponsored by Ministry of Science and Technology, Kuala Lumpur, 2002.

Presented Keynote speeches:
1. Application of renewable energy and futuristic point of view on generation of electrical power from microbial fuel cells. International Symposium on Biotechnology (ISB09) Oct. 4-7, 2009, University of Sindh, Jamshoro, Pakistan.
2. Aerobic and anaerobic biological treatment: several industrial case studies. WasteSafe 2011, 2nd International Conference on Solid Waste Management in Developing Countries, Feb. 13-15, 2011, Khulna, Bangladesh.
3. Bioelectricity Generation in Biological Fuel Cell with and without Mediators. The 3rd International Conference on Fuel Cell & Hydrogen Technology (ICECHT 2011), 22-23 Nov. 2011, Kuala Lumpur, Malaysia.
4. Evaluation and characterization of biological processes: Aerobic versus anaerobic processes. Linnaeus Eco-Tech 2012 • Kalmar, Sweden 26-28 November, 2012.
5. Microbial Fuel Cell as a Bioelectricity Generator, International Conference on Environmental Research and Technology (ICERT 2012), May 30, 2012 Penang, Malaysia.

Academic & professional Experiences
Conducted research:

Biofuel cell, Anaerobic and aerobic fermentation process, Microbial fuel cell, Immobilized cell reactor for enhanced Ethanol production, Organic acids fermentation, Single cell protein, Production of Fungal Alpha Amylase, Enzymatic and acid hydrolysis for sugar production, Extraction of acid from hydrolyzate, Hydrogen production via biological route, Bioconversion of waste gases to liquid fuels and chemicals (ethanol and acetic acid), Biodesulfurization of Coal, Biological treatment of industrial wastewater, Bioremediation, Biodegradation, Attached growth for industrial wastewater treatment, Rotating biological contactor (NRBC), Up-flow anaerobic sludge blanket, Bio-gas production in UASB, Biofilter, Bioconversion of Palm Oil wastes to ethanol & organic acids, Plasma protein separation and fractionation in EUF cells.

Courses taught:

Chemical Kinetics & Reactor Design, Chemical Reaction Engineering I & II, Fundamental of Chemical Engineering, Thermodynamics, Heat & Mass Transfer, Heat Exchanger Design, Separation Processes, Transport Phenomena, Plant Design & Economic for Chemical Engineers, Wastewater Engineering, Environmental Engineering, Bioreactor Design, Fermentation Processes, Bioprocesses, Bioscience for Engineers, Biochemical Engineering Fundamentals.

Supervision for higher degrees:

Name of Student	Degree Major	Year University	Thesis Title
1. Davood Farmanzadeh	M.Sc. Applied Chemistry	1994 MU*	Solubility of Hydrogen Sulfide and Sulfur Dioxide in TEG, Tet-EG and DEA Solution.
2. Omran Banpai	M.Sc. Applied Chemistry	1995 IFUI**	Determination of Heavy Metals in Boney Fish in Contaminated Rivers.
3. Manocher Hassanzadeh	M.Sc. Applied Chemistry	1995 IFUI	Application of Metal Coating and Surface Reaction with Phosphate.
4. Vahid Marandi	M.Sc. Chem. Engineering	1995 MUST***	Reaction Rate Model for Diethyl Ether to Ethanol using Heterogeneous Catalysts.
5. Nehal Taghbagloo	M.Sc. Chem. Engineering	1996 MUST	Evaluation of Chemical Reaction Kinetics for Alkanol-Amides.
6. Syed Mehdi Kathami Mashadi	M.Sc. Applied Chemistry	1996 IFUI	Process Design and Production of Hydrofluouric Acid from Flourspar.
7. Ali Nazari	M. Sc. Engineering	1996 MUST	Cost Evaluation for municipal Wastewater treatment Plants.
8. Mdjtaba Ghamsari Rastgo	M .Sc. Engineering	1996 MUST	Economic Analysis of Iranian Petrochemical Plant Products for Exports
9. Mustafa Negaresh	M. Sc. Engineering	1996 MUST	Alternative Process Economic Evaluation for production of Shampoo.
10. Manocher Shoshtari	M. Sc. Engineering	1997 MUST	Alternative Design for Natural Gas Sulfur Recovery Plants
11. Kivan Fatemi	M.Sc. Chemical Engineering	1997 MUST	Biological Waste Treatment of Chukka's Wastewater by Activated Sludge from Anzali Lagoon.
12. Alireaza Hossienzadeh	M.Sc. Chemical Engineering	1996 MUST	Evaluation of Effective Parameters on Kinetics of Chemical Reactions in the Electrocells of Neka Power Plant.
13. Hassanali Zamani	M.Sc. Applied Chemistry	1996 IFUI	Design of Dryer for Rotary Filter Cake in Chrome Chemical Industries.
14. Habibollah Younesi	M.Sc. Applied Chemistry	1997 IFUI	Improvement of Wet Strength of Cardboard with Urea Formaldehyde, Coating with PVC and Alkyd Resins.
15. Ahmad Razaghi	M. Sc. Applied Chemistry	1997 IFUI	Synthesis of Alkali Cellulose and Carboxy-methyl Cellulose from Linter.
16. Hamid Reza Shahabi	M. Sc. Engineering	1997 MUST	Case Study: Survey of trouble shooting, Problems related to Iranian Industries
17. Haji Ahamdi	M.Sc. Applied Chemistry	1998 IFUI	Process Development for Refine and Reuse of Motor Lubricant Oil.
18. Behrose Rasolpenah	M.Sc. Applied Chemistry	1999 IFUI	Removal of Heavy Metals from Electroplating Industrial Wastewater Using Polyelectrolytes as Coagulating Aids.
19. Toraj Ghasemi	M. Sc. Applied Chemistry	1999 IFUI	Evaluation of Industrial Wastewater Treatment Processes.
20. Radjabalipour	M.Sc. Chemical Engineering	1999 MUST	Process Development for Ultra-centrifuge in Production of Skim Milk Cream.
21. Gysu Sahebi	M. Sc. Chemical Engineering	1999 MUST	Digester Design for Production of Biogas in Large Scale.
22. Bahram Zarehnedjade	M.Sc. Chemical Engineering	1999 MST	Biological Treatment of Textile Industrial Wastewater Using Anaerobic Bacteria from Activated Sludge.
23. Samad Rezaei	M. Sc., Engineering	1998 MUST	Chromium and Dolomite Removal from Rotary Filter Cake in Chrome Chemical Industries.
24. Behrose Shahnasi	M.Sc. Chemical Engineering	1998 MUST	Evaluation of Scale Deposition in the Electrocells of Neka Power Station Hypochlorite Plant.
25. Seyed Jafar Mehdizadeh	M. Sc. Engineering	1997 MUST	Environmental Impact of Fossil Fuel Utilization in Neka Power Plant.
26. Seyed Vahid Tabataaei	M.Sc. Chemical Engineering	1995 MUST	Production of Single Cell Protein from Molasses by *Saccharomyces cerevisiae.*
27. Amizon bt. Azizan	M.Sc. Chemical Engineering	2001USM****	Microbial desulfurization of Malaysian coal in batch process using mixed culture.
28. Punita Nook Naidu	M.Sc. Chemical Engineering	2001, USM	Rotating Biological Contactor for Biological Treatment of Poultry Processing Plant Wastewater using *Saccharomyces cerevisiae.*
29. Ku Syahidah Bt Ku Ismail	M.Sc. Chemical Engineering	2004 USM	Mass Transfer Coefficients in Photobiological

			Production of Hydrogen.
30. Habibollah Younesi	Ph.D. Chemical Engineering	2005, USM	Production of Fuels and Chemicals from Synthesis Gas Using Anaerobic Bacteria, *Rhodospirillum rubrum* and *Clostridium ljungdahlii.*
31. Irvan Dahlan	M. Sc. Chemical Engineering	2004, USM	Synthesis of Citronellyl Butyrate in a Continuous Packed-Bed Reactor using Immobilized *Candida rugosa* Lipase
32. Asmida Bt. Idris	M. Sc. Ch. Engineering	2005, USM	Acid Hydrolysis of Solid Wastes from Palm Oil Plant.
33. Aliakbar Zinatizadeh Lorestani	Ph. D. Chemical Engineering	2006, USM	Biological Treatment of Palm Oil Mill Wastewater in an UASB Bioreactor.
34. Hasan Nasrollahzadeh	Ph.D. Chemical Engineering	USM, 2007	Bioremediation and Removal of PAH from Seawater and Sediments.
35. Nurhaslina Bt. Che Radzi	M.Sc. Chemical Engineering	2005 USM	Separation of Acid and Sugar from Hydrolyzate Solution of Palm Oil Residues in Electro-dialysis Process
36. Mohamed E. Essa Abdulgader	Ph.D. Chemical Engineering	USM2007	Nitrification and Denitrification of POME in RBC and Trickling Bed Filter.
37. Wong Sook San	M.Sc. Chemical Engineering	2006 USM	Identification and determination of suitable and desire concentration of coagulant for treatment of pulp and paper wastewater.
38. Sim Jia Huey	M. Sc., Chemical Engineering	2006 USM	Bioconversion of Synthesis gas to Liquid Fuel and Chemicals such as Ethanol and Acetic Acid using *Rhodopseudomonas capsulate* and *Clostridium aceticum*
39. Ceok Chai Har	M. Sc., Chemical Engineering	USM, 2007	Biological Treatment of Intel wastewater using attached growth
40. Hairul Nazirah Bt. Abdul Halim	M. Sc., Chemical Engineering	USM, 2007	Human Plasma protein separation, Albumin & Globulins by Isoelectric Focusing in a Rotafor
41. Tracy Ong Suan Imm	M. Sc., Chemical Engineering	USM, 2007	Biological Treatment of Intel wastewater using activated sludge process with additional Granular Activated Carbon (GAC)
42. Hanida bt. Abdul Azia	M. Sc., Chemical Engineering	USM, 2007	Solvent extraction of HCl- sugar from acid hydrolyzate of Palm Oil residues
43. Chong Yee Hwang	M. Sc., Chemical Engineering	USM, 2007	Biological treatment of Electronic industrial wastewater (Komag, Penang Malaysia) using activated sludge system
44. Sadeghpour M.	M.Sc. Environmental Engineering	2006 MU	Effect of return sludge ratio for the performance of activated sludge system in domestic wastewater treatment
45. Rahimnejad Mostafa	M.Sc., Chemical Engineering	2006 MU	Production of Biological Nanoparticles from Bovine Serum Albumin for Drug Delivery.
46. Kademi Mostafa	M.Sc. Environmental Engineering	2007 MU	Biological treatment model for antibiotic wastewater in an Up-flow anaerobic fixed film bioreactor.
47. Mohammadi Maedeh	M. Sc. Chemical Engineering	2007 MU	Solvent recovery from the amoxicillin production line in Iranian Antibiotic plant.
48. Garnas	M. Sc. Chemical Engineering	2006 IFUI	BTEX determination and bioremediation of aromatic compound in Amir Abad Port.
49. Hosseni, Bahareh	M.Sc. Environmental Engineering	2007 MU	Evaluating performance of industrial treatment plant for Amol's Industrial Park
50. Kavarpour Maryam	Ph.D. Chemical Engineering	2010 MU	Biodesulfurization of natural gas
51. Rahimnejad Mostafa	Ph.D. Chemical Engineering	2011BNUT	Power generation in Microbial Fuel Cell
52. Mohammadi Maedeh	Ph.D. Chemical Engineering	2012 BNUT	Production of Bioethanol from syngas using *Clostridum sp*.
53. Moktarzadeh Nader	Ph.D. Chemical Engineering	2012 UKM	Basic activities of the suspended culture in anode compartment of the Microbial fuel Cell
54. Sharifzadeh Maziyar	Ph.D. Chemical Engineering	2010 BNUT	PHB production, Bioplastic synthsis and bionano-composites
55. Eshfahani Mehri	Ph.D. Chemical Engineering	2012BNUT,	Production of Ethanol in a membrane bioreactor.
56. Hamed Mershad	M.Sc. Chemical Engineering	2010 IFUI	Bio-oxidation of ethanol to acetic acid using *acetobacter sp.*
57. Gholestaneh	M.Sc. Civil Engineering	2010 BNUT	Impregnation of polymers for polymer concert.
58. Ghasemi B. Mostafa	M.Sc. Chemical Engineering	2010 BNUT	Production of lactic acid from the permeated whey using *Lactobacillus bulgarious.*
59. Hashemieh Babak	M.Sc. Environ. Engineering	2009 BNUT	Biological treatment model for dairy wastewater in an

			Up-flow anaerobic fixed film bioreactor.
	M.Sc. Chemical Engineering	2008 BNUT	Design of spray dryer for diary food products.
60. Amini Gazaleh	M.Sc. Environmental	2008 BNUT	Removal of turbidity of dairy wastewater using
61. Sharikian A.	Engineering		impregnated PVA in fly ash porous media.
	M.Sc. Chemical Engineering	2008 BNUT,	Immobilized *Saccharomyces cerevisiae* for
62. Shafaghat H.			production of ethanol from molasses.
	M.Sc. Environ. Engineering	2008 NUT	NRBC for treatment of dairy wastewater.
6.3 Ebrahimi A.	M.Sc. Chemical Engineering	2009 BNUT	Removal organic color by a new synthesized
64. Nazari A.			adsorber.
	M.Sc. Chemical Engineering	2009 BNUT	Production of alpha amylase from lignocellulosic
65. Rezaei, Pouya Sirous			wastes.
	M.Sc. Chemical Engineering	2009 BNUT	VOC (Methy acetoacetate) removal in a biofilter from
66. Zare Hossein			the contaminated air stream
	M.Sc. Chemical Engineering	2009 BNUT	Synthesis of food and chemical grade CMC gel and
67. Haidarzadeh Hamid			production of alkaline cellulose.
	Ph.D. Chemical Engineering	2012 BNUT	Production of glucosidase for Biosensors, online
68. Zarie Hossein			determination of glucose
	Ph.D. Chemical Engineering	2012 BNUT	Biodesulfurization of natural gas in a CSTR
69. Haidarzadeh Hamid	M.Sc. Environmental	2009 BNUT	UAFF bioreactor for treatability of pulp and paper
70. Karimnejad E.	Engineering		wastewater.
	M.Sc. Environmental	2009BNUT	VOC (Acetone) removal in a biofilter using
72. Mostafa Asadi	Engineering		*Pseudomonas putida* from the contaminated air
			stream.
	M.Sc. Environmental	2010 BNUT	Biodegradation of PAH compounds in a UAPB.
73. Saghafi S.	Engineering		
	M.Sc. Environmental	2010 BNUT	Biodegradation of BTX in an Upflow Fixed Film
74. Rayatdoost	Engineering		Bioreactor.
	M.Sc. Chemical Engineering	2011 IFUI	Decolorization of molasses using novel absorbent
75. Ramazani Ali			made of fly ash, sand and clay.
	M.Sc. Chemical Engineering	2011 IFUI	Biodiesel fuel synthesis via heterogeneous catalytic
76. Haydarzadeh			trans-esterification reaction, Continuous production
	M.Sc. Chemical Engineering	2011 IFUI	Transesterification reaction of fatty acids in a batch
77. Valizadeh			reactor
	M.Sc. Chemical Engineering	2011 BNUT	Production of Xanthan gum from whey
78. Gilani Saideh	M.Sc. Chemical Engineering	2011 BNUT	Production of Lipase from agricultural wastes by
79. Housienpour Maryam			*Aspergillus niger*
	M.Sc. Civil Engineering	2011 BNUT	Concert polymer fabrication for corrosive
80. Houseinzadeh,			environment.
Mohammad Hassan	M.Sc. Chemical Engineering	2011 BNUT	Lactic acid production from dairy wastes in MFC
81. Haghparast, Fahimeh	M.Sc. Chemical Engineering	2010 BNUT	Bio-synthesis of polyhydroxy alkanate as biopolymer
82. Lasemi, Zahra	M.Sc. Chemical Engineering	2011 BNUT	Production of alpha cellulose from nitro-cellulosic
83. Raeesi, Maryam			wastes
	M.Sc. Chemical Engineering	2011 BNUT	Production of Chitosan from shrimp's shell
84. Khorami, Marjan			
	M.Sc. Environmental	2011 BNUT	Removal of phenol from hazardous wastewater in a
85. Taghzadeh, Tahereh	Engineering		biological process (MSBR).
	M.Sc. Environmental	2011 BNUT	Biodegradation of phenolic compounds in an aerobic/
86. Peishegar, Roya	Engineering		anaerobic Fluidized bed reactor
	M.Sc. Environmental	2011 BNUT	Biodegradation of phenol in a carrier anaerobic
87. Mosavi, Seyedeh Nafisah	Engineering		baffled reactor with incorporation of anaerobic sludge
	M.Sc. Environmental	2011 BNUT	Biodegradation of phenolic compound in an upflow
88. Bakshi, Zinab	Engineering		packed bed reactor.
89. S. Ebrahimi	M.Sc. Chemical Engineering	2012 BNUT	Transesterification of triglycerides using lipase
90. Ali Tardast	M.Sc. Chemical Engineering	2012 BNUT	Membrane less MFC for wastewater treatment
91. Alamian Ali	M.Sc. Chemical Engineering	2012 BNUT	Biodesulfurization of natural gas using strains isolated from hot spring
92. Mohseni Samaneh	M.Sc. Chemical Engineering	2012 BNUT	Solid state fermentation for lipase production from rice husk
93. Vaseghi M.	M.Sc. Chemical Engineering	2012 BNUT	Solid state fermentation for lipase production from rice straw
94. Ghorban Farahi	M.Sc. Chemical Engineering	2012 BNUT	Membrane bioreactor for ETOH production
95. Amini Gazaleh	Ph.D. Chemical Engineering	2012 BNUT	Biofuel synthesis using heterogeneous alumina catalysts
96. Fatemeh Pakpour	M.Sc. Chemical Engineering	2012 BNUT	Production of Biohydrogen from the photosynthetic bacteria.

97. Mayam Hassani	M.Sc. Chemical Engineering	2012 BNUT	Biodeseil fuel production by Alumina Zirconia Catalysts.
98. Najmeh Bakohi	M.Sc. Chemical Engineering	2012 BNUT	Biofuel from microalgaie using photo bioreactor
99. SaeeideSadat Reyazi	M.Sc. Chemical Engineering	2012 BNUT	Acid Hydolysis of lignocellulosic wastes.
100. Kamila Zareai	M.Sc. Chemical Engineering	2012 BNUT	Production nano-kitosan as heavy metal adsorbent
101. Faezeh Samkhanian	M.Sc. Chemical Engineering	2012 BNUT	Biofuel synthesis using zeolites Biodeseil fuel from green Algaie
102.MeghdadMohammadpour	M.Sc. Chemical Engineering	2012 BNUT	Biodesiel production using heterogenous catalytic reactor
103. Salehe Shirzadneya	M.Sc. Chemical Engineering	2012 BNUT	Acid Hydrolysis of biomass
104. Arezo Khalili	M.Sc. Chemical Engineering	2012 BNUT	Biofuel production from Micro algae in a photosynthetic bioreactor
105. Mina Kiakojoori	M.Sc. Chemical Engineering	2012 BNUT	Transesterification of fatty acids using lipase
106. P. Nouri	M.Sc. Chemical Engineering	2013 BNUT	Bioleaching of chromium ore and Biosorption of Cr^{+6}
107. Poyafar	M.Sc. Chemical Engineering	2013 BNUT	using white root fungi
108. Ghorban Farahi	Ph.D. Chemical Eng.	2013 BNUT	Membrane reactor under vacuum for ETOH production

*Mazandaran University (MU), Noshirvani University of Technology (NUT), Babol, Iran
**Mazandaran University of Science & Technology (MUST), Babol, Iran
***Islamic Free University of Iran (IFUI)
****Univesiti Sains Malaysia (USM), Penang, Malaysia & Universiti Kabangsar Malaysia (UKM), Kuala Lumpur, Malaysia

Final Year Projects for B.Sc. Degree in Chemical Engineering (USM):
Hasni Suzila bt Che Hamid, 2005. Purification of sucrose in electrodialysis process.
Jamaliah bt. Deri, 2005. Production of ethanol from acid Hydrolyzate sugar obtained from Palm Oil residues.
Lee Lek Kee, 2005. Biological Treatment of Fish Cannery Wastewater by three-stage Rotating Biological Contactors
Subahini D/O Nadras, 2005.Aerobic Oxidation of Phenanthrene in batch system using *Pseudomonas putida.*
Wan Nor Sazwana bt Ab Khalib, 2005. Alternatives for conventional glycerinated rose-water production
Hii Ai Yieng, 2004. Continuous treatment of POME by RBC. An attached growth
Nurul Edry bt. Aziz, 2004. Production of ethanol from acid hydrolyzate sugar originated from Palm Oil residues.
Norihan Hj Drashid, 2004. Enzymatic hydrolysis of Sago starch to monomeric sugars.
9. Yap Yok Mian, 2004. Removal of VOCs from the contaminated air by Biofilter.
10. Myainthan a/l Kudarsamy, 2004. Production of ethanol using upgraded enzymatic hydrolyzed molasses
11. Wan Yusmarena bt. Wan Yusoff, 2004. Acid hydrolysis of Palm Oil residues, empty fruit bunch
Asmida bt. Ideris, 2002. Manufacturing and characterization of ceramic membrane.
13. Cheong Poi Shan, 2002. Enzymatic hydrolysis of starch.
14. Lim Jit Kang 2002. Production of organic acids via fermentation process
15. Mohd Fakhrudzafie Mohd, 2002. Enzyme purification.
Nurhaslina bt. Che Radzi, 2002. Production of Single Cell Protein from molasses.
Shah Rizan B. Sulaiman, 2002. Kinetic studies of Alkanolamide reactions.
Siti Mardziana bt. Mahmud, 2002. Biological treatment of wastewater from pulp and paper industry using RBC process.
Syamsul Bahari b. Abdullah, 2002. Application of trickle filter for wastewater treatment.
Wan Nur Fauzana Wan Mustafa, 2002. Production of alpha-amylase using amyloletic bacteria.
Zainal Akmar b. Zainuddin, Aerobic oxidation of Palm oil wastewater.
LooKien Wai, 2002. Production of transparent soap from Palm Oil.
Lai Hon Kuan, 2002. Biological treatment of waxy hydrocarbon industrial wastewater.
24. Phang Sin Yee, 2001. Ethanol fermentation under partial vacuum condition, using S*accharomyces cerevisiae.*
25. Muhammad Dlemi b. Hashim, 2001. Acid hydrolysis of pretreated palm oil residues
26. Too Ji Hoong, 2001. Modeling and simulation of alum removal by reverse osmosis membrane.
Suhaini Bt. Abdrahman, 2001. Oxygen transport modeling in aeration tank for wastewater treatment.
Siti Rahayu Bt. Ahmad Subri, 2001. Kinetic studies of enzymatic hydrolysis of molasses.
Lee Chiah Lin, 2000. Oxygen transfer rate in an aerated tank for pharmaceutical wastewater treatment.
Ku Syahidah Bt. Kuismail, 2000. Solid waste management: Safe land filling methods.
Lee Ken Kok, 2000. Production of diethyl ether from ethanol in gas phase using γ-alumina and determination of rate equation.
Lau Bok Lian, 2000. Kinetic studies of enzymatic hydrolysis of molasses

Tee Chooi Bee, 2000. Acid hydrolysis of Palm Oil residues.
Roslieza Bt. Rosely, 2000. Optimization of the electrocells in Chlorine production process in Lumut Power Plant.
Hartini Haron, 2000. Anaerobic Digestion of Coal
Lim Chee Wee, 1999. Production of Transparent Soap using Palm Oil.
Lau Siew Fui@Lem Siew Fui, 1999. Anaerobic biodegradation of mono-chlorophenol in industrial waste stream using activated sludge process.
Aziah Bt. Pauzi, 1999. Methane production from cattle manure.
Ng Sze Yin, 1999. Production of Fungal α-amylase enzyme.
Yip Siew Siew, 1999. Aerobic digestion of non-penicillinic pharmaceutical wastewater.
Juhaida Md. Saad, 1999. Ethanol Production.

Administrative/school duties:
Dear of Engineering College 1985-1987.
Vice Chancellor in research **,** University of Mazandaran, Babolsar, Iran, 1987-1990.
Head, Chemical Institute**,** University of Mazandaran, Babolsar, Iran, 1993-1995.
Director, Mazandaran Institute of Technology, Babol, Iran, 1996-1998.
Head of Organizing Committee, International Book Exhibition at the University Mazandaran, 1987.
Chairman and Member of Organizing Committee, Tabari International Congress, sponsored by UNESCO and The Ministry of Culture and Higher Education of Iran, Motel Bank Melli, Babolsar, Iran, 1988.
PhD Program chairman, Faculty of Chemical Engineering, University of Mazandaran, Babol, Iran, 2006-present.
Invited Board member, School of Industrial Technology, Universiti Sains Malaysia, Penang, Malaysia, 2002-2005.
Board member, School of Civil Engineering, Universiti Sains Malaysia, Penang, Malaysia, 2003-2005.
Member of postgraduate committee, School of Chemical Engineering, Universiti Sains Malaysia, Engineering Campus, Penang, Malaysia, 2003-2005.
Head of Chemical Engineering, Biotechnology & Head of Biotechnology Research Center, NUT, Babol, Iran, since 2008.

Consultant activities:
Mazandaran Water and Wastewater Organization, 1995-1998.
Neka Power Plant, Chlor-alkaline production, 1997-1998.
Malaysian Institute of Chemical Engineers Training, MICET program with USM, 2002-2004.
Hexagon Synergy for biofuel & bioethanolproduction from syngas, 2010-2013

Registered Patents:
Formulation of Transparent Soap and Natural Biodegradable Liquid Detergent from Palm Oil's Fatty Acids, Patented in
Malaysia SIRIM: ISD 426/13/1, [NS/2002-09/146], 2003.
Microbial fuel cell design and fabrication for power generation, Patented in Iran, Registration no. 55670, 2008.
Design and fabrication of packed column for purification of nanobio-products. Patented in Iran, Registration no. 49023, 2008.
Fabrication of Meso-porous adsorbent based on fly ash-sand and clay for removal of dye from wastewater. Patented in Iran, Registration no. 55907, 2008.

List of Research Papers submitted for Publications in Referee Journals:

- Mohd Amizi Bin Mat Sot, Meisam Valizadeh Kiamahalleh, Ghasem D. Najafpour, Sharif Hussein Sharif Zein,Optimization of specific capacitance for hybrid supercapacitor material based on nickel-manganese oxides/ multiwalled carbon nanotubes/ poly (3, 4-ethylenedioxythiophene) using Response Surface Methodology

A. Publications in Refereed Prestigious National, International ISIJournals & Proceedings:

Published 2014

343. Maedeh Sadeghpour Haji, Seyed A. Mirbagheri, Amir H. Javid, Mostafa Khezri, Ghasem D. Najafpour, **Suspended sediment modelling by SVM and wavelet,** GRAĐEVINAR **66** (2014) 3, 211-223.
342. Hassani, M.; G.D.Najafpour, M. Mohammadi, M. Rabiee, Preparation, Characterization and Application of Zeolite-based Catalyst for Production of Biodiesel from Waste Cooking Oil. JSIR Vol.73(02) [February 2014], 129-133.

341. Mostafa Rahimnejad, Gholamreza Bakeri, Ghasem Najafpour, Mostafa Ghasemi, Sang-Eun Oh, A review on the effect of proton exchange membranes in microbial fuel cells. Biofuel Research Journal 1 (2014) 7-15.
340. M. Khavarpour, G. D. Najafpour, A.-A. Ghoreyshi, M. Jahanshahi, and B. Bambai. An Evaluation of Kinetic Parameters and Mass Transfer Coefficient in the Biodesulfurization of Natural Gas. Energy Sources, Part A, 36:1–10, 2014
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Refereed Published Books:

Book Title	Summary
1. Heat Transfer (in Persian) University of Mazandaran, Babol, Iran Publishers: University of Mazandaran, Babolsar, Iran Published 1991, 182 pages, Soft Cover	This is my 1st book I have published at University of Mazandaran. This topic, I have taught for number of years in heat transfer. That was the first basic course in unit operation/ heat transfer. I have managed to cover the syllabus and all the required material for the 1st course of heat transfer in 6 chapters. The basic heat transfer, conduction and convection heat in single and composite media has been discussed in detail. One hundred problems in heat transfer have been covered in three fields of heat transfer; conductive, convective, radiative heat transfers. In the last part of this book (chapter 6) shell and tube heat exchanger design has been fully discussed. This book is used as a textbook and it is a suitable guideline for engineering students in the first heat transfer course.
2. Biogas Plants Author: Ludwig Sasse Translated into Persian language Publishers: Amir Kabir University & University of Science and Technology, Iran Published: 1995 Number of pages: 103, Soft Cover	Application of various sources of energy is to get more benefit from all types of availal purpose of "Biogas Plants" is to demonstrate how easily a unit in a small scale can costs. Using and saving energy is a strategic goal of any society. In this manuscrip is shown in his book, how a biogas plant works and how a simple one can be extract energy for cooking and heating purposes. The original manuscript was wri language, it has been translated to English, then English manuscript version of Bi my duty to translate into Persian language. The objective of my translation wa small farmers to be equipped with biogas unit and also to be self sufficient in te The full translation into Persian language has been carried in this book. That is a re farmers to build and maintain a biogas unit for generation of methane from catt plant size is based on number of cattle and the size of the gas holding tank. A discussed. Therefore this book would teach common people how to generate availability feedstock form cattle manure or other solid wastes. This book has 8 design and sample calculations.
3. Biotechnology and Coal Publisher: Hormozgan University, Bandar Abbas, Iran Publication no. 77, year: 1998, ISBN 964-6426-67-0 Number of pages: 227, Soft	This book was prepared based on newly research found on Coal. Especially there are a few recent papers covered on coal biodesulfurization techniques. Biotechnology is a new field of study; it must be clearly explained to other scientists who are searching in this field. Since the availability of the material in Persian language is a major problem in the university level in Iran and because of the lack of information in academic research, therefore I have attempted to gather all the material regarding to Biotechnology and coal. In this book, I have discussed

Cover	about types of bacteria can grow on coal and what are the advance techniques regarding to coal cleanings, floatation and desulfurization. The objectives of this book was to present methods and show how easily coal can be desulfurized by growing microorganisms e.g. *Thiobacillus thiooxidans* and *Thiobacillus ferrooxidans* on coal, to remove sulfur and purify the coal. This book is prepared in 10 defined sections with 227 pages.
4. Mass Transfer Publisher: Hormozgan University, Bandar Abbas, Iran Publication no. 53, year: 1997, ISBN 964-6426-60-3 Number of pages: 234, in five chapters, Soft Cover	This is my 4th book I have published in Persian language in Iran. This topic, I have taught in mass transfer course for a few semesters at University of Mazandaran. I have arranged it in 5 chapters in 234 pages. Chapter 1 is about distillation and fractionation column. The absorption and stripping topics are discussed in chapter 2. Extraction column, liquid-liquid extraction has been discussed in chapter 3. Evaporators, single and multiple effects are designed and detail descriptions are given in chapter 4. Various methods of flash distillation and flash calculations for multi-components are given in chapter 5. The Persian textbook is presently used as a textbook for the 2nd course of mass transfer and separation processes. It is useful book with practical aspects in the discipline of Chemical Engineering.
5. Biochemical Engineering and Biotechnology Publisher: Elsevier, Amsterdam, Holand, 2007. Publication date: Nov. 2006. In 17 Chapters in 438 pages with number of case studies ISBN: 0444-52845-8 www.books.elsevier.com 2nd Edition of this book with 20 chapters are under publication 2014	In a new millennium, extensive applications of bioprocesses have created an environment of great interests and have involved many engineers in expansion of knowledge in biotechnology. Microorganisms are able to produce fine chemicals, fuel and food which are utilized and involved in many industrial processes. The knowledge related to industrial microbiology has been revolutionized by the ability of genetically engineered cells to make many new products. Genetic engineers and gene-mounting has been developed in enhancement of industrial fermentation. Finally, biotechnology with applications in biochemical engineering has a new way of making commercial products by using living organisms and also the fully developed knowledge to deliver fine and useful products. This book demonstrates application of biological sciences in engineering with theoretical and practical aspects. The 17 chapters in one volume should give much more understanding of the knowledge related to the specified field with more practical approaches and related case-studies with original research data. It is an advanced guided book for students to follow the sequential lectures with detailed explanations and solved practical problems in the related chapters. The book has suitable applications in biological science, biochemical engineering and biological processes. The book is unique with practical approach, easily understandable with many applications in industrial field. This is a text book; much useful for students to follow many case-studies. It is unique in example and in demonstration of detailed experiment with simple design equations and the required calculations. Even in some cases it is a true guide for the beginners to establish advance research in this field. This book is designed to serve as a textbook for college and Universities, it is mostly recommended for undergraduate courses in one or two semesters. It is also very useful for research institutes and postgraduates involved in practical research in biotechnology and biochemical engineering.

6. M. Rahimnejad, M. Jahanshahi G. D. Najafpour,	Fabrication and Optimization of BSA Nanoparticles ISBN 978-3-8454-1592-5, paperback, 72 Pages, LAP Lambert Academic Publishing, 2011.
7. Meisam Tabatabaei, Alawi Sulaiman, Ali M. Nikbakht, Norjan Yusof and GHasem D. Najafpour	Influential Parameters on Biomethane Generation in Anaerobic Wastewater Treatment Plants. Book Chapter, Source: Alternative Fuel, ISBN 978-953-307-372-9, Edited by: Maximino Manzanera, Published by InTech, August 2011. www.intechopen.com/.../influential-parameters-on-biomethane-gener...
8. G. D. Najafpour M. Rahimnejad, A.A. Ghoreyshi	Effect of Mass Transfer on Performance of Microbial Fuel Cell published by InTech - Open Access Publisher, ISBN 978-953-307-619-5, 2011.
9. G. D. Najafpour M. Rahimnejad, A.A. Ghoreyshi	Microbial fuel Cell, Published by Noshirvani University of Technology, Babol, Iran, 2011. Number of pages: 336, Hard Cover.
10. G.D. Najafpour, H. Heidarzadeh	Fundamental of Heat Transfer, Published by Noshirvani University of Technology, Babol, Iran, 2013. Number of pages: 276, Hard Cover.

Internal and External Examiner for MS and PhD students:

Permanent internal examiner for postgraduate students, School of Industrial Technology, Universiti Sains Malaysia, Penang, Malaysia, 2003.

Examiner for MD. Zaidul Islam Sarker (Ph. D. degree) in School of Industrial Technology, Universiti Sains Malaysia, Penang, 2003.

Examiner for Norli Bt. Ismail (Ph. D. degree) in School of Industrial Technology, Universiti Sains Malaysia, Penang, 2003.

Examiner for Onyia Oby Christie (Ph. D. degree) in School of Industrial Technology, Universiti Sains Malaysia, Penang, 2002.

5. Examiner for Surendran a/l Ramasamy (M. Sc. degree) in School of Chemical Engineering, Universiti Sains Malaysia, 2000.

6. Invited examiner for S. M. Mazhar Nazeeb Khan (Ph. D. degree) PG and Research Dept. of Chemistry, Jamal Mohamed College, Tiruchirappalli 620 020, Tamil Nadu, India, 2004.

7. External examiner for M. Sc. Students in Chemical Engineering Department, Mazandaran University of Science & Technology, Babol, Iran, 1994 - 1999.

8. External examiner for M. Sc. Students in Applied Chemistry Islamic Free University of Iran, North of Tehran and Shahrood Branches, 1995-1999.

9. Ph. D. External Examiner for Ferra Naidir (GS16830) Synthesis of osidative palm based synthetic lubricant (degree) in School of Chemical Engineering, Universiti Putra Malaysia, Kuala Lumpur, Malaysia, 2010.

10. Ph. D. External Examiner for Manoj Kumar Ghosh, Studies on Microbial Production of Lactic Acid by Batch Fermentation, Department of Paper Technology, Indian Institute of Technology, Roorkee, India, 2011.

Invited lecturer:

7. Keynote speaker, "Anaerobic versus Aerobic Treatment Process" Wastesafe 2011, Khulna, Bangladeh Feb. 13-15, 2011.

6. Keynote speaker, Biodeseil Synthesis from Transestrification of FFA, 1st International Conference on New Frontiers in Biofuels, January 18-19, 2010, Delhi Technologyical University, New Delhi, India.

5. Keynote speaker, " Microbial Fuel Cell as renewable energy source", 5th International Symposium on Biotechnology (ISB) October 4-7, 2009, University of Sindh, Jamshoro, Pakistan

4. Keynote speaker, “Future Role of Biotechnology in Production of Synthetic Fuel and Chemicals from Renewable Resources”. Fifth Regional IMT-GT UNINENT Conference, Thailand 2005.

3. Membrane Science and Technology Research Center, Prince Songkla University, Thailand, 2003.

2. Applied Chemistry Islamic Free University of Iran, Shahrood, Iran, 1996-1998.

1. Chemical Engineering Department, Mazandaran University of Science & Technology, Babol, Iran. 1993-1998.

Research Grants:

“Production of Cellulose Acetate from Linter”, Jihad Mazandaran, Industrial Group. Sari, Iran, 1991-1992, Rials: 1,500,000.

“Production of water Impermeable Cellulose Fibers”, Mazand Board Company, Babolsar, Iran1993-1994, Rials: 1,000,000.

“Geomembrane for Protection of Wastewater Concert Pipe Line”, Mazandaran Water and Wastewater Company, Sari, Iran, 1994-1995, Rials: 5000,000.

"Optimization of Sanilec Cells" Neka Power Plant, Ministry of Power, Tehran, Iran, 1997-1998, Rials: 20,000,000.
"Biodesulfurization of Coal", Universiti Sains Malaysia, Project no. IRPA: 163539, 1998-2000, RM: 13,100.
"Optimization of an Aerated System for Aerobic Digestion of Industrial Wastewater System" Universiti Sains Malaysia, Project no. IRPA: 073515, 2000-2002, RM: 12,300.
Development of Inorganic Membrane to Remove Oil Emulsifier from Domestic Wastewater" Universiti Sains Malaysia, Project no. IRPA: 703574, 2002-2003, RM: 16,124.
Co-research, "Synthesis of Citronellyl Butyrate in a Continuous Packed Bed Reactor using Immobilized Lipase" IRPA, 2003-2005, RM: 19,590.
"Bioconversion of Low Value Waste Gas to Liquid Fuels and Chemicals", Sponsored by Ministry of Science and Technology & Universiti Sains Malaysia, Project no. IRPA 03-02-05-9016, 1999-2003, RM: 373,000.
"Production of Organic Acids and Ethanol from Palm Oil Residues", Sponsored by Ministry of Science and Technology & Universiti Sains Malaysia, Project no. IRPA 01-02-05-3223 EA011, 2003-2005, RM: 317,000.
"Separation of Albumin, γ-Globulin and Immuno-globulins from Serum Protein by Electro-ultra-filtration and Gel Filtration, Sponsored by Ministry of Science, Technology and Innovation & Universiti Sains Malaysia, Project no. IRPA 03-02-05-4278 EA019, 2004-2005, RM: 231,600.
"Development of Electrocells for separation & Extraction of Sugar by Electrodialysis of Hydrolyzate Palm Oil Solid Wastes" *yayasan felda grant*, 2004-2005, RM: 116,000.
"Biological Treatment of Palm Oil Mill Effluent in an Up-flow Anaerobic Sludge Blanket (UASB) Bioreactor", Universiti Sains Malaysia, Project no. IRPA: 2004-2005, RM: 19,950.
Multi-stage Microbial fuel cell for power generation. IRPA grand, Rials 550, 000, 000. 2009.
"Recovery of methyl aceto-acetate from amoxicillin plant waste's stream". Industrial Flagship IRPA grand, Rials 240, 000, 000. 2007.
"Biological Fuel Cell" Funded by Iranian National Research Foundation for Science & Technology, IRPA grand, Rials 200, 000, 000. 2007.
"Bioethanol fuel production from syngas" submitted to Iranian National Research Foundation for Science & Technology for IRPA grant.

References:

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