

2022

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Education

Biotechnology

PhD

1- B.Sc. in Microbiology, 1985, Faculty of Science, Tehran University, Tehran, IRAN.

2- M.Sc. in Microbiology, 1989, Tehran University, Tehran, IRAN. Title of thesis: Identification of Three *Cellulomonas* spp. from IRAN and Evaluation of them in Production of SCP. M.Sc. thesis. Tehran University, Tehran, IRAN.

3- Ph.D. in Biotechnology (Biological Products), 1996, Pasteur Institute of IRAN, Tehran, IRAN. Title of thesis: Production, Purification and Immobilization of Glucose Isomerase for preparation of High Fructose Syrups.

Journal papers

[Evaluating the Effect of Microbial Stimulation and Oxidative Stress on Increasing \$\beta\$ -Carotene Production in *Blakeslea trispora*](#)

M Azizi, D Zare, A Akhavan Sepahy, M Azin

Advanced Research in Microbial Metabolites and Technology

2022

[Screening of microalgal isolates of the Persian Gulf and evaluation of their potential as the promising bioethanol feedstock](#)

M Seyed Jafari Olia, M Azin, AA Sepahi, N Moazami

International Journal of Green Energy 19 (8), 857-864

2022

[Improving ethanol tolerance in industrial yeast strain by a combination of mutation and evolutionary engineering](#)

F Sheikhi, K Rostami, M Azin, M Asadollahi, M Ebrahimi, P Ghiaci

Biological Journal of Microorganism

2022

- [Kinetic models to describe Nannochloropsis salina cultivation under different illumination conditions](#) 2022
 AB Pejman Shirazian, Mehrdad Azin
 Environmental Progress & Sustainable Energy
- [Feasibility of improving carbohydrate content of *Chlorella* S4, a native isolate from the Persian Gulf using sequential statistical designs](#) 2022
 MSJ Olia, M Azin, AA Sepahy, N Moazami
 Biofuels 13 (3), 291-299
- [Comparison of different pretreatment methods to facilitate the carbohydrate release from two microalgae isolates: a critical step in bioethanol production](#) 2022
 MSJ Olia, M Azin, N Moazami
 Biomass Conversion and Biorefinery, 1-14
- [Evaluation of Drug Repositioning by Molecular Docking of Pharmaceutical Resources to Identification of Potential SARS-CoV-2 Viral Inhibitors](#) 2022
 F Hosseini, M Azin, H Ofoghi, T Alinejad
 Drug Repurposing-Molecular Aspects and Therapeutic Applications
- [Application of a statistical design to evaluate bioethanol production from *Chlorella* S4 biomass after acid-Thermal pretreatment](#) 1 2022
 MSJ Olia, M Azin, N Moazami
 Renewable Energy 182, 60-68
- [Comparison of xanthan biopolymer production in mutant strains of *Xanthomonas citri* subsp. *citri* by using cheese whey](#) 2021
 R Moravej, M Azin, SM Alavi
 Journal of Microbial World 14 (4)
- [Production and characterization of poly 3-hydroxybutyrate-co-3-hydroxyvalerate in wheat starch wastewater and its potential for nanoparticle synthesis](#) 2 2021
 N Sinaei, D Zare, M Azin
 Brazilian Journal of Microbiology 52 (2), 561-573
- [Optimization of micro-algae *Chlorella vulgaris* culture to increase the production of starch in Iran 2014](#) 2021
 M Azin, A Sheykhinejad
 Journal of Marine Science and Technology 20 (1), 87-99
- [Improving ethanol production and tolerance in *Saccharomyces cerevisiae* through evolutionary engineering strategy using 1-butanol stress](#) 2021
 F Sheikhi, K Rostami, M Azin, MA Asadollahi, M Ebrahimi, P Ghiaci, ...
 Cellular and Molecular Research (Iranian Journal of Biology)

- [Investigation of effective factors on optimization of biopolymer production of polyhydroxybutyrate-co-valerate \(PHBV\) by Plackett–Burman method and optimization of productivity ...](#) 2021
N Sinaei, D Zare, M Azin
JAB, 1398
- [Screening of isolated bacteria from Persian Gulf petroleum sediments with capability of poly hydroxybutyrate production and identification of the physicochemical structure of ...](#) 2020
N Sinaei, M Azin
Modares Journal of Biotechnology 12 (1), 1-15
- [بهینه‌سازی محیط‌کشت مخمر ساکارومایسس سروزیه با استفاده از شربت گلوکز و عصاره خیسانده ذرت رباط جزئی، آذین، سهرابی زیست شناسی میکروارگانیسم ها ۹ \(۳۵\)، ۲۹-۳۹](#) 2020
- [The optimization and statistical analysis of fermentative hydrogen production using Taguchi method](#) 2020
S Sepehri, K Rostami, M Azin
International Journal of Chemical Reactor Engineering 18 (9)
- [Detoxification vs. adaptation to inhibitory substances in the production of bioethanol from sugarcane bagasse hydrolysate: A case study](#) 5 2020
H Nouri, M Ahi, M Azin, SLM Gargari
Biomass and Bioenergy 139, 105629
- [Production and physicochemical characterization of xanthan gum by native lactose consuming isolates of Xanthomonas citri subsp. citri](#) 2020
R Moravej, SM Alavi, M Azin, AH Salmanian
Ukrainian Biochemical Journal
- [Characteristics of glucose oxidase immobilized on magnetic chitosan nanoparticles](#) 7 2020
MEA Afjeh, R Pourahmad, B Akbari-Adergani, M Azin
Food Sci. Technol. 40, 68-75
- [Miniaturized culture method for the statistical study of growth rate and carbohydrate content of Picochlorum sp. D8 isolated from the Persian Gulf](#) 11 2020
M Seyed Jafari Olia, M Azin, A Akhavan Sepahi, N Moazami
Renewable Energy 149, 479-488
- [Characteristics of glucose oxidase immobilized on Magnetic Chitosan Nanoparticles](#) 3 2019
M Ein Ali Afjeh, R Pourahmad, B Akbari-Adergani, M Azin
Food Science and Technology 40, 68-75

- [The effect of vinasse on the growth performance and feed digestibility of Holstein male calves](#) 1 2019
AR Gerimipour, M Azin, MR Sanjabi
Acta Scientiarum. Animal Sciences 41
- [Production of xanthan gum by the native strain of Xanthomonas citri in whey medium and evaluation of its physicochemical properties](#) 2019
R Moravej, SM Alavi, M Azin, AH Salmanian
Biological Journal of Microorganism 8 (30), 69-79
- [Investigation of the organic acids, microbial and sensory properties of probiotic drinking yogurt containing glucose oxidase immobilized on magnetic chitosan nanoparticles](#) 2019
M Ein Ali Afjeh, R Pourahmad, B Akbari Adergani, M Azin
Iranian Food Science and Technology Research Journal 15 (2), 245-255
- [A study on the role of Clostridium saccharoperbutylacetonicum N1-4 \(ATCC 13564\) in producing fermentative hydrogen](#) 4 2019
S Sepehri, K Rostami, M Azin
International Journal of Chemical Reactor Engineering 17 (3)
- [Use of glucose oxidase immobilized on magnetic chitosan nanoparticles in probiotic drinking yogurt](#) 9 2019
MEA Afjeh, R Pourahmad, B Akbari-Adergani, M Azin
Food science of animal resources 39 (1), 73
- [Statistical optimization of medium for biomass production of a local Iranian microalgae Picochlorum sp. RCC486 by response surface methodology](#) 2 2019
MH Abolhasani, M Safavi, MT Goodarzi, SM Kassae, M Azin
Advanced Research in Microbial Metabolites & Technology 1, 39-49
- [Investigation of the effect of using Vinasse in the feed of Holstein male calves on the quality of their meat as a meal in the armies food ration](#) 2019
A Geramipour, M Azin, MR SANJABI
EBNESINA 21 (368), 58-61
- [Comparison of different selenium sources on performance, serum attributes and cellular immunity in broiler chickens](#) 5 2018
M Hossein Zadeh, H Kermanshahi, MR Sanjabi, A Golian, M Azin, ...
Poultry Science Journal 6 (2), 191-203
- [Statistical optimization of medium with response surface methodology for biomass production of a local Iranian microalgae Picochlorum sp. RCC486](#) 1 2018
M Haji Abolhasani, M Safavi, MT Goodarzi, SM Kassae, M Azin
Advanced Research in Microbial Metabolites and Technology 1 (1), 39-49

- [Identification and anti-cancer activity in 2D and 3D cell culture evaluation of an Iranian isolated marine microalgae *Picochlorum* sp. RCC486](#) 30 2018
M Haji Abolhasani, M Safavi, MT Goodarzi, SM Kassaei, M Azin
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- [Enhanced ethanol production from sugarcane bagasse hydrolysate with high content of inhibitors by an adapted *barnettozyma californica*](#) 9 2018
H Nouri, M Azin, SL Mousavi
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M Mohammadi, M Azin, M Sedighi
Biological Journal of Microorganism 6 (23), 109-118
- [Detoxification of sugarcane Bagasse Dilute-Acid Hydrolyzate by Overliming for bioethanol production](#) 2017
S Shokri Khaneghah, M Azin, H Ajodanifar
Applied Biology 30 (1), 75-94
- [Comparative production of cellulases by mutants of *Trichoderma parceramosum* PTCC5140](#) 2 2017
H Nouri, T Sajjadi, M Azin
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A Farazmand, M Azin
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- [Xylan-hydrolyzing thermotolerant *Candida tropicalis* HNMA-1 for bioethanol production from sugarcane bagasse hydrolysate](#) 16 2017
H Nouri, M Azin, MG Seyed latif
Annals of Microbiology, 1-9
- [EFFECT OF ETHANOL AND MEDIUM ON BACTERIAL CELLULOSE \(BC\) PRODUCTION BY *GLUCONACETOBACTER XYLINUS* \(PTCC 1734\)](#) 37 2015
F Mohammadkazemi, K Doosthoseini, M Azin
Cellulose Chemistry and Technology 46
- [Production of bacterial cellulose using different carbon sources and culture media](#) 282 2015
F Mohammadkazemia, M Azin, A Ashori
Carbohydrate Polymers 115, 518-523

- [Effects of Bacterial Nanocellulose on Properties of Fiber-Cement Composites and Durability to Freeze-Thaw Cycling](#) 2015
F Mohammadkazemi, K Doosthoseini, E Ganjian, M Azin
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- [PRODUCTION OF XANTHAN GUM BY XANTHOMONAS CITRI FROM CHEESE WHEY AS A SUBSTRATE, IN LABORATORY SCALE SUBMERGED FERMENTATION](#) 2015
M ESMAEILI, M AZIN, M KIANIRAD
- [USE OF LACTOBACILLUS PLANTARUM LPCO10 AS A STARTER CULTURE IN SPANISH-STYLE GREEN OLIVE FERMENTATION](#) 2015
F SALAMI, M AZIN
- [Manufacturing of bacterial nano-cellulose reinforced fiber cement composites](#) 90 2015
F Mohammadkazemi, K Doosthoseini, E Ganjian, M Azin
Construction and Building Materials 101, 958–964
- [UV mutagenesis for the overproduction of xylanase from Bacillus mojavensis PTCC 1723 and optimization of the production condition](#) 19 2014
S Ghazi, AA Sepahy, M Azin, K Khaje, R Khavarinejad
Iranian journal of basic medical sciences 17 (11), 844
- [Over production of xylanase from Bacillus mojavensis by classical mutagenesis](#) 1 2014
S Ghazi, M Azin, A Akhavan Sepahi
Biological Journal of Microorganism 3 (11), 21-36
- [Mutagenesis by UV and Nitrous Acid for increase of rennet production in Rhizomucor miehei](#) 2014
N Tajik, M Azin, M Fallahpour, R Pourahmad
Biological Journal of Microorganism 3 (10), 1-12
- [Optimization of media for bioethanol production by Pichia stipitis from sugarcane bagasse pretreated by dilute acid](#) 5 2014
M Ahi, M Azin, SA Shojaosadati, E Vasheghani Farahani, M Nosrati
Biological Journal of Microorganism 3 (9), 11-20
- [Identifying Probiotics of Macrobrachium rosenbergii's Intestine Micro Flora and Their Effect in Prawn's Growth and Survival](#) 4 2014
B Rahimian Zarif, M Azin
Advances in Life Sciences 4 (3), 123-130
- [Enzymatic degumming of crude soybean oil with lecithase ultra.](#) 1 2014
SM Khabaz, M Gharachorloo, M Azin, M Ghavami, BG Tarzi
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- [Optimization of sugarcane bagasse hydrolysis by microwave-assisted pretreatment for bioethanol production](#) 13 2013
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- [PRODUCTION OF AMYLASE BY T. LONGIBRACHIATUM ON SOLID-STATE FERMENTATION: OPTIMIZATION OF CULTURE BY TAGUCHI METHOD](#) 2013
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KM MASHHADI, M SARSHAR, M AZIN
- [INVESTIGATION OF OIL PRODUCTION BY MORTIERELLA ALPINA](#) 2012
S HOSSEINI, M AZIN, M GHAVAMI, MSZ HOSSEINI
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- [Native Bacterial Mixed Culture: A Proportionate Solution for Refinery and Petrochemical Wastewaters](#) 5* 2012
MGK M.M Zamani, S.H Mortazavi, M Aligholi, H Mahmoud
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- [Comparison of function of immobilized and free Bacillus licheniformis cells in production of alkaline protease](#) 2011
M Mashhadi-Karim, M Azin, SL Mousavi Gargari, M Sarshar
Journal of Microbial World 4 (1&2), 15-22
- [Efficient production of cellulase and xylanase by anaerobic rumen microbial flora grown on wheat straw](#) 1 2011

- S Bahramian, M Chamani, M Azin, A Gerami
African Journal of Agricultural Research 6 (12), 2711-2714
- [Increasing the bioethanol yield in the presence of furfural via mutation of a native strain of *Saccharomyces cerevisiae*](#) 13 2011
RZ Bahareh, M Azin, N Aminmozafari
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- [Production of alkaline protease by entrapped *Bacillus licheniformis* cells in repeated batch process](#) 6 2011
M Mashhadi-Karim, M Azin, SLM Gargari
Journal of microbiology and biotechnology 21 (12), 1250-1256
- [Optimization of enzymatic extraction of sugars from Kabkab date fruit](#) 28 2011
S Bahramian, M Azin, M Chamani, A Gerami
Middle-East Journal of Scientific Research 7 (2), 211-216
- [Yield comparison of two strains of *Saccharomyces cerevisiae* \(EC1118 and Iran Molass\) for cost-effective production of bioethanol](#) 2010
A Tofighi, MHA Asadirad, M Mazaheri Assadi, M Azin
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S Bahramian, M Azin, M Chamani, A Gerami
World Applied Sciences Journal 9 (1), 85-90
- [EVALUATION OF APPLICABILITY OF TAGUCHI METHOD IN MICROBIAL MEDIUM DESIGN: OPTIMIZATION OF ALPHA-AMYLASE PRODUCTION BY STATISTICAL DESIGN OF EXPERIMENTS](#) 2010
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IRANIAN JOURNAL OF BIOLOGY 23 (3), 321-332
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- [EFFECT OF UV RADIATION ON NATIVE STRAIN OF SACCHAROMYCES CEREVISIAE FOR INCREASING THE BIOETHANOL YIELD AND RESISTANCE TO THE FURFURAL](#) 2010
BR ZARIF, M AZIN, M GHOLAMI
Third International Symposium on Energy from Biomass and Waste Venice, Italy ...

- [OPTIMIZATION OF SIMULTANEOUS PRODUCTION OF AMYLASE AND PECTINASE BY ASPERGILLUS ORYZAE](#) 1 2009
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 JOURNAL OF SCIENCES (ISLAMIC AZAD UNIVERSITY) 18 (701), 17-30
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 D Zareh, M Azin, H Rasi, S Mirdamadi
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- [Purification and Characterization of Milk Clotting Enzyme Produced by Rhizomucor miehei](#) 5 2008
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 Journal of Physical & Theoretical Chemistry 5 (3), 29-34
- [Production of xylanase by Trichoderma longibrachiatum on a mixture of wheat bran and wheat straw: Optimization of culture condition by Taguchi method](#) 134 2007
 M Azin, R Moravej, D Zareh
 Enzyme and microbial technology 40 (4), 801-805
- [Pectolytic and Cellulytic Enzymes for improvement of Date sugar](#) 2006
 F Zare, M Azin, H Nikoopour, M Mazlumi
 Iranian Journal of Nutrition Sciences & Food Technology 1 (1), 15-21
- [INCREASE IN BETA-CAROTENE PRODUCTION BY BLAKESLEA TRISPORA GROWN WITH WHOLE CELLS OF SOME MICROORGANISMS](#) 2003
 D ZAREH, M AZIN
 IRANIAN JOURNAL OF BIOLOGY 14 (1 & 2), 1-11
- [Decolorization of textile wastewater by Phanerochaete chrysosporium](#) 60 2001
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 World Journal of Microbiology and Biotechnology 13 (5), 597
- [Isolation and identification of three Cellulomonas spp. from forest soils](#) 11 1993
 F Malekzadeh, M Azin, M Shahamat, RR Colwell
 World Journal of Microbiology and Biotechnology 9 (1), 53-55

[Production of SCP from sugarcane bagasse](#)

M Azin, N Moazami

5 1989

Second Congress of Forest and Technology. Faculty of Engineering. Tehran ...

[Enhancement of alkaline protease production by *Bacillus licheniformis* through production medium optimization by taguchi method](#)

MM Karim, M Sarshar, M Azin

[Evaluation of Different Methods for Ascomycetous Yeasts' DNA Extraction](#)

H Nouri, M Azin, SMLM Gargari, B Dehghani

[Partial Purification of a Thermostable Lipase From a Local Strain of *Geobacillus stearothermophilus* and Its Zymographic Analysis](#)

S Honardoost, J Fooladi, M Azin, P Ghadam

Conference papers

- 1- Azin, M., Malekzadeh, F. & Moazami, N. (1989) Production of SCP from sugar Cane Baggasse. National Food Conversion technology Congress. Faculty of engineering, Tehran University, October 15-17.
- 2- Azin, M., & Moazami, N. (1989) Production of SCP from sugar Cane Baggasse. Second Congress of Forest and Technology. Faculty of engineering, Tehran University, December 19-21.
- 3- Moazami, N., Samadi, P., Tabatabai, M., Azin, M., Mirdamadi, S. & Kiani, M. (1991) Production of Microbial Insecticides in IRAN. First Regional Congress of Biotechnology, Tehran, Iran. November 1991.
- 4- Mazaheri, A., Moazami, N., Salaji, M. H., Vaziri, M., Tabatabai, M., Samadi, P., Azin, M. & Kiani, M. (1991) Effects of *Fusarium solani* in Controlling Broomrape in Sunflower, Cucumber, Tobacco, Melon, Watermelon and Cucurbit. First Regional Congress of Biotechnology, Tehran, Iran. November 1991.
- 5- Azin, M., Moazami, N. and Nemat-Gorgani, M. (1997) Evaluation of production and immobilization of glucose isomerase. 4th Biochemistry Congress, 19-22 Oct. 1997. Babol University of Medical Sciences. I. R. Iran.
- 6- Azin, M., Ghassabian, S. and Karbasi, M. (1999) Laboratory scale production of L-lysine . 8th Conference of Biology. 31st Aug - 2d Sept. Razi University. Kermanshah. I. R. Iran.
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- 8- Azin, M., Haghighi, K. and Karbasi, M., (2000) Fermentative production of L-lysine. The First National Congress of Biotechnology. Feb. 22-24 2000. Tarbiat-E- Modarres University. Tehran, Iran.
- 9- Azin, M., Haghighi, K. and Karbasi, M., (2000) Production of L-lysine by fermentation. 5th National & 4th International Chemical Engineering Congress. April 24-27, 2000. Shiraz University. Shiraz, Iran.
- 10- Noroozi, E. and Azin, M. (2001) Production of alpha-amylase by mutant strain of *Aspergillus oryzae*. Asian International Mycological Congress. Agricultural Research, Education and

- Development Organization, Ministry of Jihad-e-Agriculture. Karaj, I.R. Iran September 17-20. p. 90.
- 11- Azin, M. (2001) Developments in solid state fermentation. Asian International Mycological Congress. Agricultural Research, Education and Development Organization, Ministry of Jihad-e-Agriculture. Karaj, I.R. Iran September 17-20. p. 91.
 - 12- Azin, M., Norouzi, J., Zareh, D. and Alempour Salemi, F. (2005) Comparison of some species of baker's yeast for the amount of growth and sugar utilization in culture. 13th Iranian Biology Conference and the First International Conference of Biology. Guilan University, Rasht, I.R. Iran. 17-20 Sept. (Oral presentation).
 - 13- Zareh, F., Azin, M., Nikoupour, H. and Mazloumi, M. T. Enzymatic treatment for improvement of date sugar extraction process. 4th National Biotechnology Congress of Biotechnology. Kerman, I.R. Iran. August 2005.
 - 14- Alempour Salemi, F., Azin, M. and Norouzi, J. Comparison of some industrial baker's yeast strains in their production of CO₂, trehalose, consumption of sugar and growth rate. First International Iranian Congress on Biological Science. Azad University of Iran. Karaj, I.R. Iran. September 2005. (poster).
 - 15- Zareh, F., Azin, M. and Nikoupour, H. (2006) Pectinolytic and cellulolytic enzymes for improvement of date sugar extraction process. 13th World Congress of Food Science & Technology. 17-21 September, 2006, Nantes, France (Oral presentation).
 - 16- Maleki, M., Azin, M. and Ghaemi, N. Optimization of Lysine Production by *Corynebacterium glutamicum* by Random Mutagenesis. First National Congress of Biotechnology and Biocatalysis. Shar-e Ray. November 2006.
 - 17- Zareh, D., Azin, M., Asad, S., Dastgheyb, S. M. M., Asgharian, H and Kabiri M. Optimization of Production of Alpha-Amylase by *Aspergillus oryzae*, using Full Factorial and Taguchi Statistical Methods and their comparison. The 5th National Biotechnology Congress of Iran, 24-26 Nov, 2007, Summit Meeting Conference Hall, Tehran- Iran.
 - 18- Khanjani, S. Zare, D. Mazaheri M and Azin, M. Effect of Different Carbon/Nitrogen ratio and Induction Factors of Beta-Carotene Production by *Blakeslea trispora*. 15th National & 3rd International Conference of Biology, 19-21 August 2008, University of Tehran, Tehran, Iran.
 - 19- Zohreh Jafari 1 ,Ahmad Majd ,Fathollah Fallahian1, Mehrdad Azin *. Optimization of Simultaneous Production of Amylase, Pectinase and Cellulase, by *Aspergillus oryzae*. 5th International Chemical Engineering Congress and Exhibition Kish Island, 2 - 5 January 2008.
 - 20- Towfighi, A., Azin, M., Mazaheriassadi, M. Assadirad, M. H. and Falahian F. Inhibitory Effect of Furfural on Growth Kinetics of Two Industrial Strains of *Saccharomyces cerevisiae*. The 6th National Biotechnology Congress of Iran 13-15 Aug, 2009, Milad Tower Conference Hall, Tehran-Iran.
 - 21- Mohsen Ahi; Mehrdad Azin; Seyed Abbas Shojaosadati; Ebrahim Vasheghani Farahani; Mohsen Nosrati. Bioethanol Production From Sugarcane Bagasse Hemicellulose Using *Pichia Stipitis*. The 13th Iranian and 2nd International Conference of Microbiology. Ardabil, Iran, July, 14-16, 2012.
 - 22- Sara Honardoost*; Jamshid Fooladi; Mehrdad Azin; Parinaz Ghadam. Partial Purification of a Thermostable Lipase From a Local Strain of *Geobacillus stearothermophilus* and Its Zymographic Analysis. Ardabil, Iran, July, 14-16, 2012.
 - 23- Hoda Nouri*; Mehrdad Azin; Seyed Mir Latif Mousavi Gargari ;Farzane Ahadzadeh Salout. Selection of Furfural Tolerant-xylan Degrading Native Yeasts for Bioethanol Production. Ardabil, Iran, July, 14-16, 2012.

- 24- Hoda Nouri; Mehrdad Azin*; Seyed Mir Latif Mousavi Gargari ;Behzad Dehghani. Evaluation of Different Methods for Ascomycetous Yeasts' DNA Extraction. Ardabil, Iran, July, 14-16, 2012.
- 25- Shahram Sharafi*; Mehrdad Azin; Ali Mashinchian Moradi; Anita Khanafari; S. Mohammad Reza Fatemi. Dilute Acid Hydrolysis of Freshwater Fern (*Azolla* Sp.) For Production of Bioethanol. Ardabil, Iran, July, 14-16, 2012.
- 26- Tahere Sajadi; Mehrdad Azin*; Mahnaz Mazaheriassadi. Production of Cellulases by *Trichoderma* Spp. Mutants. Ardabil, Iran, July, 14-16, 2012.
- 27- Sepideh Shokri Khaneghah; Mehrdad Azin*; Hafez Ajudanifar. Detoxification of Sugarcane Bagasse Dilute-Acid Hydrolyzate by Overliming for Bioethanol Production. Ardabil, Iran, July, 14-16, 2012.
- 28- Milad Rabbani Esfahani, Mehrdad Azin. Microwave-High Temperature Pretreatment and Enzymatic Hydrolysis of Sugarcane Baggasse. 12th Annual Meeting of American Institute of Chemical Engineers (AIChE). Pittsburg-Pennsylvania, USA. Oct. 28- Nov. 2nd, 2012.
- 29-Neda Sinaei, Davood Zare, Mehrdad Azin (1396) The effect of chloroform on the measurement of polyhydroxybutyrate. 2nd International and 10th National Biotechnology Congress of Islamic Republic of Iran August 29-31, 2017 / Seed and plant Improvement Institute, Karaj, Iran.

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Research activities

- 1- Production of SCP from sugar cane bagasse (project manager). 1987-1989. Biotechnology Center. Iranian Research Organization for Science & Technology. Tehran. IRAN.
- 2- Production of SCP from orange peels (assistant researcher). 1989-1990. Biotechnology Center. Iranian Research Organization for Science & Technology. Tehran. IRAN.
- 3- Laboratory scale production of *Bacillus thuringiensis* M-H-14 (assistant researcher). 1987-1989. Biotechnology Center. Iranian Research Organization for Science & Technology. Tehran. IRAN.
- 4- Preservation of industrial and pathogenic microorganisms (assistant researcher). Persian Type Culture Collection (PTCC). 1987-1990. Biotechnology Center. Iranian Research Organization for Science & Technology. Tehran. IRAN.
- 5- Isolation of native microorganisms for production of glucose isomerase (project manager). 1993-1995. Biotechnology Center. Iranian Research Organization for Science & Technology. Tehran. IRAN.
- 6- Preparation of biological manure (project manager). 1994-1995. Biotechnology Center. Iranian Research Organization for Science & Technology. Tehran. IRAN.
- 7- Pilot plant scale production of *Bacillus thuringiensis* M-H-14 (assistant researcher) 1989-1999. Biotechnology Center. Iranian Research Organization for Science & Technology. Tehran. IRAN.
- 8- Production, purification and immobilization of glucose isomerase for preparation of high fructose syrup (project manager). 1991-1996. Biotechnology Center. Iranian Research Organization for Science & Technology. Tehran. IRAN.

- 9- Laboratory scale production of L-lysine (project manager). 1997-1998. Biotechnology Center. Iranian Research Organization for Science & Technology. Tehran. IRAN.
- 10- Production of over-producing *Aspergillus niger* mutants for production of glucoamylase (project manager). 1998-1999. Biotechnology Center. Iranian Research Organization for Science & Technology. Tehran. IRAN.
- 11- pilot-scale production of L-lysine (project manager). 1998-2000. Biotechnology Center. Iranian Research Organization for Science & Technology. Tehran. IRAN.
- 12- Pilot-scale production of microbial rennet (project manager). 1999-2001. Biotechnology Center. Iranian Research Organization for Science & Technology. Tehran, IRAN.
- 13- Microbial Production of beta-carotene by *Blakeslae trispora*- Over production of beta-carotene by mutation and selection (assistant researcher). 1999-2001. Biotechnology Center. Iranian Research Organization for Science & Technology. Tehran, IRAN.
- 14- Feasibility study of production of microbial rennet in Iran (project manager). 2002-2003. Biotechnology Center. Iranian Research organization for Science & Technology. Tehran. Iran.
- 15- Evaluation of Enhancement of Alcohol Production in Parchin Alcohol Producing Plant (Project Manager). 2003-2005. Joint Venture Research Program: Iranian Research Organization for Science & Technology, Management and Programming, Parchin Alcohol Production Plant.
- 16- Enhancement of Suagr Extraction of Date Fruit by Enzymatic Treatment (Project Manager). 2008-2010. Iranian Research Organization for Science & Technology.
- 17- Production of Bioethanol from Lignocellulosics (a work performed as a scientific consortium of 6 scientific organizations). 2008-2011.
- 18- Co-fermentation of lignocellulosic material for production of bioethanol. 2011-2013.
- 19- Pilot production of Streptococcosis & Lactococcosis vaccine. 2011-2012.
- 20- Production of Xanthan from cheese whey. 2012-2013.
- 21- Production of bioethanol from water plants, Azola and Duckweed. 2012-2014.
- 22- Production of Bioethanol from microalgal isolated from Persian Gulf, 2017-2019.
- 23- Using Artificial Laboratory Evolution for improving an industrial ethanol producer strain of *Saccharomyces cerevisiae*. 2018-2022.
- 24- Increasing cell concentration of probiotic strain, 2017-2022.

Main fields of interest

- 1- Second and third generations of bioethanol production
- 2- Lignocellulosic digesting enzymes
- 3- Biopolymers of microbial origin

Supervision of theses

Supervision of more than 20 Thesis of MSc and PhD degree.

Main responsibilities

- 1- Head of biotechnology pilot-plant. 1993-1999.
- 2- Head of the Office of Link with Industry, Ministry of Science, Research and Technology, 2001-2006.
- 3- Member of Expertise Committee of Biotechnology, IROST, 2002.
- 4- Head of the Office of University- Industry linkage, IROST, 2001-2006.
- 5- Member of the Expertise Committee of IROST, 2002-2009.
- 6- Dean Of Department of Biotechnology, 2009- continued
- 7- Representative of IROST in New Energies Headquarter, 2009-continued
- 8- Member of the Scientific Board of the Biotechnology Group, University of Tehran, 2003-2005.
- 9- Member of Advisory Committee of Khawrazmi Scientific Festival, 2004-present.
- 10- Head of biotechnology pilot-plant. 2012-2018.
- 11- Head of biotechnology Department, IROST. 2013-2015.
- 12- Head of Bioenergy and Bioconversion research group 2010- continued

Scientific Adviser to:

- Biotechnology Programming Group, Biotechnology Center, IROST.
- Biotechnology Scientific Group, Biotechnology Center, IROST.
- Biotechnology Committee, Khawrazmi Scientific Award, IRAN.
- Biotechnology Committee, Ministry of Jihad-E-Sazandegi, IRAN.
- Many industries including Bidestan Alcohol Producing Complex.

- Teaching Experiences: Over 20 years of Teaching in universities in BSc, MSc and PhD grades.

Training Courses: Over 20 training courses passed in the fields of fermentation, Microbial Physiology and Genetics, Statistics, Microbial Products.

Experiences:

- Microbial mutation & selection for over-production of microbial metabolites
- Fermentation and industrial microbiology
- Enzyme and cell immobilization techniques
- Product recovery by chromatography, electrophoresis, cell-disintegration, etc.
- Enzyme and amino acid production.
- Yeast technology consisting baker's yeast and ethanol (Bioethanol) production

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Design of Experiments