



Personal Information

Name: Seyed Abbas Shojaosadati **Date of Birth:** 25/05/1958
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Education

<u>Degree</u>	<u>Institution</u>	<u>Field</u>	<u>Date</u>
B.Sc.	University of Isfahan	Chemistry	1979
M.Sc.	University of Birmingham	Chemical Engineering	1985
Ph.D.	University of Birmingham	Chemical Engineering	1988

Honors & Awards

- Second Winner of 12th International Razi Medical Research Festival, 2007
- Outstanding Professor in the country (top 10 among nearly 10000 in all disciplines), 2001
- Outstanding Professor in TMU, (top among nearly 400 in all disciplines), 1998
- Distinguished Professor in Chemical Engineering 2013, (Selected by Academy of Science, IRI)
- Distinguished Biotechnologist 2013, (Selected in 2nd Iran Biotechnology Festival)
- Distinguished Biotechnologist 2017, (Selected in 3rd Iran Biotechnology Festival)
- The World's Top 2% Scientists by Stanford University, 2020.
- Establishing the Biotechnology Major in Iran in 1970 at TMU
- Publishing the first book entitled "Introduction to Biotechnology" in 1990 in Iran

- Publishing the first comprehensive paper entitled “A brief look at Biotechnology and its importance for the future”, Daru & Darman Journal, 1989
- Invited keynote speaker at national and international conferences
- Invited lecturer for Intensive courses in the area of Biotechnology at Complutense University of Madrid
- Member of the founding board of Iranian Biotechnology Society
- Member of the founding board of Iranian Probiotics & Functional Food.
- Scientific conference secretary of The 3rd Iranian Conference on Systems Biology, Feb 2018
- Scientific conference secretary of 6th Asian Federation of Societies for Lactic Acid Bacteria International Symposium & 4th International Congress of Probiotics and Functional Foods

Academic Experience

Assistant Professor, Tarbiat Modares University, Tehran, Iran, (1988-1996)

Associate Professor, Tarbiat Modares University, Tehran, Iran, (1996-2000)

Professor, Tarbiat Modares University, Tehran, Iran, (Since 2000)

Research Interest

1. Industrial Microbiology, Bioprocess Engineering
2. Process optimization for recombinant protein products
3. Nanobiotechnology

Publications (Google Scholar Citations: 7460, h-index: 45, Feb 2021)

Books

1. **S. A. Shojaosadati**, Zamir S.M., Tavassoli T., (2016), Protocol for isolation, screening, and cultivation of asphaltene-degrading microorganism, In: “Hydrocarbon and Lipid Microbiology Protocols (Isolation and Cultivation)”, Springer-Verlag Berlin Heidelberg, Germany, ISBN 978-3-662-45179-3.
2. **S. A. Shojaosadati** and M.A. Asadollahi, 2015. “Industrial Biotechnology”, **10th Edition**, Publisher: Tarbiat Modares University, Tehran (Farsi, being employed as a practical reference book in several majors in Iran).
3. **S. A. Shojaosadati** and H. Salehizadeh, 2014, “Nanobiotechnology, Principles, Concepts and Applications” 4th edition, Publisher: Tarbiat Modares University (Farsi).

4. **S. A. Shojaosadati**, Member of Scientific Committee , Editor and Translator,2009, “Encyclopedia of Biotechnology of Genetics” Vol 1&2, Published by Ministry of Science, Research and Technology, The Great Persia Encyclopedia Foundation .
5. **S. A. Shojaosadati**, Member of A Collection of Terms, Since 2007,” Collection of Terms” Vol.5&7, Published by Academy of Persian Language & Literature”.
6. **S. A. Shojaosadati** and M. Motallebi (Translators), 1993, “Understanding Genetic Engineering”, Editors: J.C. Murrell and L.M. Roberts; Publisher: Fardabeh , Tehran (Farsi).
7. **S. A. Shojaosadati**, P. Azodifar and H.A. Tehrani, 1992, “High Performance Liquid Chromatography”, Publisher: Tarbiat Modares University, Tehran (Farsi).
8. N. Moazami, **S. A. Shojaosadati**, 1990, “Introduction to Biotechnology”, Publisher: Tarbiat Modares University, Tehran (**The first published book on Biotechnology in Iran, Farsi**).

Books Chapters

1. **S. A. Shojaosadati**, M.Nosrati, B.Golfar, 2011, “Energy Storage and Transduction in Mitochondria”, Intech Open Access Publisher.
2. **S. A. Shojaosadati**, Editors: A. Paya, R. Kalantari Nezhad, 2011, “Socio-Cultural Impacts of the Fourth Wave of Scientific & Technological Development” Publisher: National Research Institute, pp 327-341.
3. **S. A. Shojaosadati**, N. Nasirpour, S. M. Zamir, 2017, “Immobilization Techniques for Microbial Bioremediation of Toxic Metals”
4. **S. A. Shojaosadati**, S. M. Zamir, T. Tavassoli, 2017, “Protocol for Isolation, Screening, and Cultivation of Asphaltene-Degrading Microorganism”

Patent

- P. Hejazi, **S. A. Shojaosadati**, Z. Hamidi, E. Vasheghani,2012, “Solid State Fermentation In Modified Zymotis Packed Bed Bioreactor” Pub. No.: US 2010/0203626 A1
- At least 10 refereed Iranian national patents

Journal Papers

1. A. C. Khorasani, F. Kouhfar, **S. A. Shojaosadati**, 2021 “Pectin/lignocellulose nanofibers/chitin nanofibers bionanocomposite as an efficient biosorbent of cholesterol and bile salts” Carbohydrate Polymers, 261, 117883.
2. M.K. Khaleghi, I. S. P. Savizi, N. Lewis, **S. A. Shojaosadati**, 2021 “Constraint-based modeling and machine learning applications for analysis and optimization of fermentation parameters” Authorea Preprints

3. F. Ahmadpoor, A. Masood, N. Feliu, W. J. Parak, **S. A. Shojaosadati**, 2021 “The Effect of Surface Coating of Iron Oxide Nanoparticles on Magnetic Resonance Imaging Relaxivity” *Frontiers in Nanotechnology*, 3, 13
4. M. Kalantar, S. M. Zamir, M. Ferdowsi, **S. A. Shojaosadati**, 2021 “Removal of toluene in a biotrickling filter in the presence of methanol vapors: Experimental study, mathematical modeling, and kinetic parameters optimization” *Journal of Environmental Chemical Engineering*, 9, 104617.
5. S. Mirizadeh, A. Alberto Casazza, A. Converti, M. Nosrati, **S. A. Shojaosadati**, 2021 “Repetitive non-destructive extraction of lipids from *Chlorella vulgaris* grown under stress conditions” *Bioresource Technology*, 326, 124798.
6. G. Bashiri, **S. A. Shojaosadati**, M. Abdollahi, 2021 “Synthesis and characterization of Schiff base containing bovine serum albumin-gum arabic aldehyde hybrid nanogels via inverse miniemulsion for delivery of anticancer drug” *International Journal of Biological Macromolecules* 170, 222-231.
7. Z. Negahban, **S. A. Shojaosadati**, S. Hamed, 2021 “A novel self-assembled micelles based on stearic acid modified schizophyllan for efficient delivery of paclitaxel” *Colloids and Surfaces B: Biointerfaces* 119, 111524.
8. N. Eghbalifam, **S. A. Shojaosadati**, S. Hashemi-Najafabadi, A. Chackoshian Khorasani, 2020, “Synthesis and characterization of antimicrobial wound dressing material based on silver nanoparticles loaded gum Arabic nanofibers” *International Journal of Biological Macromolecules* 155, 119-130.
9. M. Papizadeh, M. Rohani, S. N. Hosseini, **S. A. Shojaosadati**, H. Nahrevanian, M. Talebi, M. R. Pourshafie, 2020, “Screening for efficient nitrogen sources for overproduction of the biomass of the functionally probiotic *L. plantarum* strain RPR42 in a cane molasses-based medium” *AMB Express* 10, 1-14.
10. H. Abolhassani, M. S. Safavi, S. Handali, M. Nosrati, **S. A. Shojaosadati**, 2020, “Synergistic Effect of Self-Assembled Curcumin and Piperine Co-Loaded Human Serum Albumin Nanoparticles on Suppressing Cancer Cells” *Drug Development and Industrial Pharmacy* 46, 1647-1655.
11. V. Alizadeh, **S.A. Shojaosadati**, S. M. Zamir, 2020 “Enhancement of schizophyllan production in *Schizophyllum commune* using microparticles in medium” *Bioprocess and Biosystems Engineering* 1-12.
12. S. Farahani, A. Akhavan Sepahi, **S. A. Shojaosadati**, F. Hosseini, 2020 “Bio-removal of Heavy Metals using Iron-oxidizing Bacteria: A Novel Approach in Environmental Biotechnology” *Iranian Journal of Pharmaceutical Research* 19, 421-429.
13. L. Rezaei, **S. A. Shojaosadati**, L. Farahmand, S. Moradi-Kalbolandi, 2020, “Enhancement of extracellular bispecific anti-MUC1 nanobody expression in *E. coli* BL21 (DE3) by optimization of temperature and carbon sources through an autoinduction condition” *Engineering in Life Sciences* 20, 338-349.

14. M. Papizadeh, M. Rohani, H. Nahrevanian, S. N Hosseini, **S. A. Shojaosadati**, M. R. Pourshafie, 2020 “Using Various Approaches of Design of Experiments for High Cell Density Production of the Functionally Probiotic *Lactobacillus plantarum* Strain RPR42 in a Cane Molasses-based Medium” *Current microbiology* 77, 1756-1766.
15. M. Mohammad, F. Ahmadpoor, **S. A. Shojaosadati**, 2020 “Mussel-Inspired Magnetic Nanoflowers as an Effective Nanozyme and Antimicrobial Agent for Biosensing and Catalytic Reduction of Organic Dyes” *ACS omega* 5, 18766-18777.
16. E. Ebrahimi, H. Amiri, M. A. Asadollahi, **S. A. Shojaosadati**, 2020, “Efficient butanol production under aerobic conditions by coculture of *Clostridium acetobutylicum* and *Nesterenkonia* sp. strain F” *Biotechnology and bioengineering* 117, 392-405.
17. S. Hamed, **S. A. Shojaosadati**, V. Najafi, V. Alizadeh, 2020, “A novel double-network antibacterial hydrogel based on aminated bacterial cellulose and schizophyllan” *Carbohydrate Polymers* 229, 115383.
18. T. Mahmoudi Alashti, N. Motakef-Kazemi, **S. A. Shojaosadati**, 2020 “In situ production and deposition of nanosized zinc oxide on cotton fabric” *Iranian Journal of Chemistry and Chemical Engineering*.
19. F. Ahmadpoor, H. Delavari H, **S. A. Shojaosadati**, “Porous versus Dense - Effect of Silica Coating on Contrast Enhancement of Iron Carbide Nanoparticles in T2-Weighted Magnetic Resonance Imaging” *ChemistrySelec* 5, 1135-1139.
20. S. Naeimipour, **S. A. Shojaosadati**, A. Fazeli, “FTIR Investigation of Secondary Structure of Reteplase Inclusion Bodies Produced in *Escherichia coli* in Terms of Urea Concentration” *Iranian Journal of Pharmaceutical Research* 19,175.
21. S. Pirzadeh Naeeni, M. R. Mozdianfard, **S. A. Shojaosadati**, A. Chackoshian Khorasani, T.Saleh, 2020, “A comparative study on schizophyllan and chitin nanoparticles for ellagic acid delivery in treating breast cancer” *International Journal of Biological Macromolecules* 144, 380-388.
22. S. Mirizadeh, M. Nosrati, **S. A. Shojaosadati**, 2019 “Synergistic Effect of Nutrient and Salt Stress on Lipid Productivity of *Chlorella vulgaris* Through Two-Stage Cultivation” *BioEnergy Research* 1-11.
23. H. Abolhassani, **S. A. Shojaosadati**, 2019, A comparative and systematic approach to desolvation and self-assembly methods for synthesis of piperine-loaded human serum albumin nanoparticles, *Colloids and Surfaces B: Biointerfaces*.184, 110534.
24. Z. Najarzadeh, H. Mohammad-Beigi, J. Nedergaard Pedersen, G. Christiansen, T. Vincent Søndery, **S. A. Shojaosadati**, D. Morshedi, K. Strømgaard, G. Meisl, D. Sutherland, J.Skov Pedersen, D.E. Otzen, 2019, “Plant Polyphenols Inhibit Functional Amyloid and Biofilm Formation in *Pseudomonas* Strains by Directing Monomers to O-Pathway Oligomers” *Biomolecules*. 9, 1-21.

25. I. Shahidi Pour Savizi, T.Soudi, **S.A. Shojaosadati**, 2019, “Systems biology approach in the formulation of chemically defined media for recombinant protein overproduction” *Applied Microbiology and Biotechnology*. 103(20), 8315-8326.
26. Z.Najarzadeh, J. Nedergaard Pedersen, Gunna Christiansen, **S. A. Shojaosadati**, J. Skov Pedersen, D. E. Otzen, 2019, Bacterial amphiphiles as amyloid inducers: Effect of Rhamnolipid and Lipopolysaccharide on FapC fibrillation, *BBA - Proteins and Proteomics*. 1867, 140263.
27. S. N. Hosseini, T. Sarvari, G. Bashiri, M. Khatamib, **S. A. Shojaosadati**, 2019, “Assessing virus like particles formation and r-HBsAg aggregation during large scale production of recombinant hepatitis B surface antigen from *Pichia pastoris*” *International Journal of Biological Macromolecules*. 139, 697–711.
28. S. Hamed, **S. A. Shojaosadati**, 2019, “Rapid and green synthesis of silver nanoparticles using *Diospyros lotus* extract: Evaluation of their biological and catalytic activities” *Polyhedron*. 171, 172-180.
29. M. A. Boojaria, S. M. Zamir, E.R. Rene, **S.A. Shojaosadati**, 2019, “Performance assessment of gas-phase toluene removal in one- and two-liquid phase biotricklingfilters using artificial neural networks” *Chemosphere*. 234, 388-394.
30. S. Babatabar, S. M. Zamir, **S.A. Shojaosadati**, B. Yakhchali, A. B. Zarch, 2019, “Cometabolic degradation of bisphenol A by pure culture of *Ralstonia eutropha* and metabolic pathway analysis” *Journal of Bioscience and Bioengineering*. 127 (6), 732e737.
31. T. Tavasoli, S. Arjmand, S. O. Ranaei Siadat, **S. A. Shojaosadati**, A. Sahebghadam Lotfi, 2019, “A robust feeding control strategy adjusted and optimized by a neural network for enhancing of alpha 1-antitrypsin production in *Pichia pastoris*” *Biochemical Engineering Journal*. 144, 18-27.
32. T. Saleh, T. Soudi, **S.A. Shojaosadati**, 2019, “Aptamer functionalized curcumin-loaded human serum albumin (HSA) nanoparticles for targeted delivery to HER-2 positive breast cancer cells” *International Journal of Biological Macromolecules*. 130, 109-116.
33. Z. Deljoo Kojabad, **S. A. Shojaosadati**, S. M. Firoozabadi, S. Hamed, 2019, “Polypyrrole nanotube modified by gold nanoparticles for improving the neural microelectrodes” *Journal of Solid State Electrochemistry*. 23 (5), 1533–1539.
34. F. Ahmadpoor, **S. A. Shojaosadati**, S. Z. Mousav, 2019, “Magnetic silica coated iron carbide/alginate beads: Synthesis and application for adsorption of Cu (II) from aqueous solutions” *International Journal of Biological Macromolecules*. 128, 941-947.
35. A. Chackoshian Khorasani, **S. A. Shojaosadati**, 2019, “Magnetic pectin-*Chlorella vulgaris* biosorbent for the adsorption of dyes” *Journal of Environmental Chemical Engineering*. 7 (3), 103062
36. S. Khanchezar, S. Hashemi-Najafabadi, **S. A. Shojaosadati**, V. Babaeipour, 2019, “Hydrodynamics and mass transfer in miniaturized bubble column bioreactors” *Bioprocess and Biosystems Engineering*. 42, 257-266.
37. S.A. Maboudi, **S.A. Shojaosadati**, F. Aliakbari, A. Arpanaei, 2019, “Theranostic magnetite cluster@ silica@ albumin double-shell particles as suitable carriers for water-insoluble drugs and enhanced T2 MR imaging contrast agents” *Materials Science and Engineering: C*. 99, 1485-1492.

38. A. Chackoshian Khorasani, **S.A. Shojaosadati**, 2019, “Intestinal adsorption of glucose, cholesterol and bile salt by simultaneous incorporation of edible microbiosorbent and intestinal bacteria” *Biocatalysis and Agricultural Biotechnology*. 19, 101119.
39. M. A. Boojari, S. M. Zamir, **S. A. Shojaosadati**, 2019, “Transient-state strategies for the removal of toluene vapor in a two-liquid phase biotrickling filter: Experimental study and neural network analysis” *Process Safety and Environmental Protection*. 121, 184-193.
40. L. Rezaei, M.Sadat Safavi, **S. A. Shojaosadati**, 2019, “Protein Nanocarriers for Targeted Drug Delivery” *Characterization and Biology of Nanomaterials for Drug Delivery*, 199-218.
41. A. Mohammadi, **S.A. Shojaosadati**, H. Jamshidian Tehrani, S.M. Mousavi, T. Saleh, A. Chackoshian Khorasani, 2018, “Schizophyllan production by newly isolated fungus *Schizophyllum commune* IBRC-M 30213: optimization of culture medium using response surface methodology” *Annals of Microbiology*. 68, 47–62.
42. S. Khodayar, H. Bardania, **S.A. Shojaosadati**, F. Bagheri, 2018, “Optimization and characterization of Aspirin Encapsulated nano-Liposomes” *Iranian Journal of pharmaceutical Research*, 17, 11-22.
43. M. Ijadi Bajestani, S.M. Mousavi, S. B. Mousavi, A. Jafari, **S.A. Shojaosadati**, 2018, “Purification of extra cellular poly- γ -glutamic acid as an antibacterial agent using anion exchange chromatography” *International Journal Biol Macromol.*, 113,142-149.
44. D. Mazaheri, **S.A. Shojaosadati**, S. M. Zamir, S.M. Mousavi, 2018, “Mathematical modeling of ethanol production in solid-state fermentation based on solid medium’ dry weight variation” *Preparative Biochemistry and Biotechnology*, 48, 4.
45. F. Aliakbari, A. Akbar Shabani, H. Bardania, H. Mohammad-Beigi, A. Tayaranian Marvian, F. Dehghani Esmatabad, A.A. Vafaei, **S.A. Shojaosadati**, A.A. Saboury, G.Christiansen, D. E. Otzen, D. Morshedi, 2018, “Formulation and anti-neurotoxic activity of baicalein-incorporating neutral nanoliposome” *J. Colloid Interface Sci.* 1(161), 578-587.
46. S.M. Ghaseminezhad, **S.A. Shojaosadati**, R. Louise Meyer, 2018, “Ag/Fe₃O₄ nanocomposites penetrate and eradicate *S. aureus* biofilm in an in vitro chronic wound model” *Colloids and Surfaces B: Biointerfaces* 163, 192–200.
47. F. Ahmadpoor, **S.A. Shojaosadati**, H. Delavari H, G. Christiansen, R. Saber, 2018, “Synthesis of Fe₅C₂@SiO₂ core@shell nanoparticles as a potential candidate for biomedical application” *Materials Research Express*, 5, 055038.
48. A. Chackoshian Khorasani, **S.A. Shojaosadati**, 2017, “Pectin-non-starch nanofibers biocomposites as novel gastrointestinal-resistant prebiotics” *International Journal of Biological Macromolecules* 94, 131–144.
49. S.A. Maboudi, **S.A. Shojaosadati**, A. Arpanaei, 2017, “Synthesis and characterization of multilayered nanobiohybrid magnetic particles for biomedical applications” *Materials and Design* 115, 317–324.
50. H. Bardania, **S.A. Shojaosadati**, F. Kobarfard, F. Dorkoosh, M. Esfahani Zadeh, M. Naraki, M. Faizi, 2017, “Encapsulation of eptifibatide in RGD-modified nanoliposomes improves platelet aggregation inhibitory activity” *J Thromb Thrombolysis* 43,184–193.
51. S. B. Mousavi, A. Fazeli, **S.A. Shojaosadati**, M.R. Fazeli, S. Hashemi-Najafabadi, 2017, “Purification and efficient refolding process for recombinant tissue-type plasminogen

- activator derivative (reteplase) using glycerol and Tranexamic acid” *Process Biochemistry* 53, 135–144.
52. S. Rahaiee, M. Hashemi, **S.A. Shojaosadati**, S. Moini, S.H. Razavi, 2017, “Nanoparticles based on crocin loaded chitosan-alginate biopolymers: Antioxidant activities, bioavailability and anticancer properties” *International Journal of Biological Macromolecules* 99, 401–408.
 53. S. Hamed, **S.A. Shojaosadati**, A. Mohammadi, 2017, “Evaluation of the catalytic, antibacterial and anti-biofilm activities of the *Convolvulus arvensis* extract functionalized silver nanoparticles” *Journal of Photochemistry & Photobiology, B: Biology* 167, 36–44.
 54. M.S. Safavi, **S.A. Shojaosadati**, F. Abedin Dorkoosh, H. Ji Jo, Y. Kwon, K. Choon Lee, H. Gyeong Yang, E. Ji Park, D. Hee Na, 2017, “The synthesis of tamoxifen-loaded albumin nanoparticles by homogenizers: Optimization and in vitro characterization” *Journal of Drug Delivery Science and Technology* 41, 20–30.
 55. M.S. Safavi, **S.A. Shojaosadati**, H. Gyeong Yang, Y. Kim, E. Ji Park, K. Choon Lee, D. Hee Na, 2017, “Reducing agent-free synthesis of curcumin-loaded albumin nanoparticles by self-assembly at room temperature” *International Journal of Pharmaceutics* 529, 303–309.
 56. A. Chackoshian Khorasani, **S.A. Shojaosadati**, 2017, “Improvement of Probiotic Survival in Fruit juice and under Gastrointestinal conditions using Pectin-Nanochitin-Nanolignocellulose as a Novel Prebiotic Gastrointestinal-Resistant Matrix” *APPLIED FOOD BIOTECHNOLOGY*, 4 (3), 179-191.
 57. H. Jamshidian, **S.A. Shojaosadati**, S.M. Mousavi, M.R. Soudi, F. Vilaplana, 2017, “Implications of recovery procedures on structural and rheological properties of schizophyllan produced from date syrup” *International Journal of Biological Macromolecules* 105, 36–44.
 58. M. Roshani, S.A. Shojaosadati, S.J. Safdari, E. Vasheghani-Farahani, K. Mirjalili, Z. Manafi, 2017, “Bioleaching of Molybdenum by Two New Thermophilic Strains Isolated and Characterized” *Iran. J. Chem. Chem. Eng.* 36-4, 177–188.
 59. F. Aliakbari, A.A. Shabani, H. Bardania, H.A. Eslampanah Seyedi, H. Mohammad-Beigi, A. Tayaranian Marvian, M. Nasouti, A.A. Vafaei, **S.A. Shojaosadati**, A.A. Saboury, G. Christiansen, D. Morshedi, 2017, “Neurotoxicity of pre-incubated alpha-synuclein with neutral nanoliposomes on PC12 and SHSY5Y cell lines” *Scientia Iranica F.* 24-6, 3542-3553.
 60. T. Tavasoli, S. Arjmand, S.O. Ranaei Siadat, **S.A. Shojaosadati**, A. Sahebghadam Lotfi, 2017, “Enhancement of Alpha 1-antitrypsin Production in *Pichia pastoris* by Designing and Optimizing Medium Using Elemental Analysis” *Iranian J Biotech.* 15-4, 224-231.
 61. H. Kouchakzadeh, T. Soudi, N. Heshmati Aghda, **S.A. Shojaosadati**, 2017, “Ligand-modified Biopolymeric Nanoparticles as Efficient Tools for Targeted Cancer Therapy” *Current Pharmaceutical Design*, 23, 5336-5348.
 62. S. Rahaiee, M. Hashemi, **S. A. Shojaosadati**, S. Moini, S. H. Razavi, 2017, “Nanoparticles based on crocin loaded chitosan-alginate biopolymers: Antioxidant activities, bioavailability and anticancer properties” *International Journal of Biological Macromolecules*, 99:401–408.
 63. S. B. Mousavi, A. Fazeli, **S. A. Shojaosadati**, M. R. Fazeli, S. Hashemi-Najafabadi, 2017, “Purification and efficient refolding process for recombinant tissue-type plasminogen activator derivative (reteplase) using glycerol” *Process Biochemistry* 53 : 135–144.

64. S. A. Maboudi, **S. A. Shojaosadati**, A. Arpanaei, 2017, “Synthesis and characterization of multilayered nanobiohybrid magnetic particles for biomedical applications” *Materials and Design* 115 : 317–324.
65. A. Chackoshian Khorasani, **S. A. Shojaosadati**, 2017, “Pectin-non-starch nanofibers biocomposites as novel gastrointestinal-resistant prebiotics” *International Journal of Biological Macromolecules* 94 : 131–144.
66. A. Chackoshian Khorasani, **S. A. Shojaosadati**, 2017, “Starch- and carboxymethylcellulose-coated bacterial nanocellulosepectin bionanocomposite as novel protective prebiotic matrices” *Food Hydrocolloids* 63: 273-285.

67. H. Heidari, M. Sedighi, S. M. Zamir, **S.A. Shojaosadati**, 2017, “Bisphenol A degradation by *Ralstonia eutropha* in the absence and presence of phenol” *Materials and Design* 115, 317–324.
68. P. Parnian, S. M. Zamir, **S. A. Shojaosadati**, 2017, “Effect of operating temperature on styrene mass transfer characteristics in a biotrickling filter ” *Environmental Technology*, 0959-3330 (Print) 1479-487X (Online).
69. A. Alinejad, S. M. Zamir, **S. A. Shojaosadati**, 2017, “Different strategies for transient-state operation of a biotrickling filter treating toluene vapor” *Appl Microbiol Biotechnol*, 101:3451–3462.
70. H. Bardania, **S. A. Shojaosadati**, F. Kobarfard, F. Darkoosh, M. Esfahani Zadeh, M. Naraki, M. Faizi, 2017, “Encapsulation of eptifibatide in RGD-modified nanoliposomes improves platelet aggregation inhibitory activity” *J Thromb Thrombolysis*, 43:184–193.
71. E. Motamedian, M. Saeidi, **S. A. Shojaosadati**, 2016, “Reconstruction of a charge balanced genome-scale metabolic model to study the energy-uncoupled growth of *Zymomonas mobilis* ZM1” *Molecular BioSystems*, 12-4,1241-9.
72. N. Bahaloo Horeh, S.M. Mousavi, **S. A. Shojaosadati**, 2016, “Bioleaching of valuable metals from spent lithium-ion mobile phone batteries using *Aspergillus niger*” *Journal of Power Sources*. 320 (2016), 257e266.
73. H. Jamshidian, **S. A. Shojaosadati**, F. Vilaplana, S. M. Mousavi, M. R. Soudi, 2016, “Characterization and optimization of schizophyllan production from date syrup” *International Journal of Biological Macromolecules*. 92, 484-493.
74. N. Mirzazadeh Dizaji, H. Mohammad-Beigi, F. Aliakbari, AT. Marvian, **S. A. Shojaosadati**, D. Morshedi, 2016, “Inhibition of lysozyme fibrillation by human serum albumin nanoparticles: Possible mechanism” *IET Nanobiotechnology*, 1751-8741.
75. S. Hamedi, **S. A. Shojaosadati**, S. Shokrollahzadeh, S. HashemiNajafabadi, 2016, “Mechanism study of silver nanoparticle production using *Neurospora intermedia*” *International Journal of Biological Macromolecules*. 93 , 1328–1336.
76. S. Hamedi, S.M. Ghaseminezhad, S. Shokrollahzadeh, **S. A. Shojaosadati**, 2016, “Controlled biosynthesis of silver nanoparticles using nitrate reductase enzyme induction of filamentous fungus and their antibacterial evaluation” *International Journal of Biological Macromolecules*. 93, 1328–1336.

77. N. Mirzazadeh Dizaji, H. Mohammad Beigi, F. Aliakbari, A. Tayaranian Marvian, **S. A. Shojaosadati**, D. Morshedi, 2016, "Inhibition of lysozyme fibrillation by human serum albumin nanoparticles: Possible mechanism" *International Journal of Biological Macromolecules* : 1328–1336.
78. H. Mohammad Beigi, D. Morshedi, **S. A. Shojaosadati**, J. Nedergaard Pedersen , A. Tayaranian Marvian, F. Aliakbari, G. Christiansen, J. Skov Pedersen, D. E. Otzen, 2016, "Gallic acid loaded onto polyethylenimine-coated human serum albumin nanoparticles (PEI-HSA-GANPs) stabilizes α -synuclein in the unfolded conformation and inhibits aggregation" *The Royal Society of Chemistry*, 6, 85312–85323.
79. H. Jamshidian, **S. A. Shojaosadati**, F. Vilaplana, S. M. Mousavi, M. R. Soudi, 2016, "Characterization and optimization of schizophyllan production from datesyrup" *International Journal of Biological Macromolecules*, 92: 484-493.
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CONGRESS AND SEMINAR PAPERS (Since 2007)

1. 125. A. Bahrami, **S. A. Shojaosadati**, R. Khalilzadeh, E. Vasheghani- Farahani, 2007, "High cell density cultivation of Pichia Pastoris for the production of recombinant hG-CSF" The 5th National Biotechnology Congress of Iran, Tehran, Iran.
2. 126. E. Seyed Jafari, **S. A. Shojaosadati**, N. Ghaemi, 2007, "Linking antibody to Albumin nanoparticles for the production of controlled drug delivery system" *ibid*.
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5. 129. Y. Asadpour, A. Motallebi, **S. A. Shojaosadati**, 2007, "Biotechnological approach for production of chitin and chitosan from Artemia urmiana cyst shell" *ibid*.
6. 130. **S. A. Shojaosadati**, P. Shafiei, A.H. Charkhabadi, P. Sazandechi, A. Ziedini, S. Hashemi Najafabadi, 2007, "Bioremediation of polycyclic hydrocabons (PAHs) and their adsorption/desorption in soil" International Conference on Environmental, Industrial and Applied Microbiology (BioMicroWorld2007), Seville, Spain.

7. 131. A.M. Farnoud, S. Yegane Sarkandy, **S. A. Shojaosadati**, V. Babaeipour, M. Sadeghyzadeh, R. Khalilzadeh, 2007, "Determination and optimization of necessary amino acids and their amounts based on stoichiometric model to increase the productivity of human interleukin-2 in recombinant *Escherichia coli* BL21", *ibid.*
8. 132. A. Karimi, A.M. Farnoud, **S. A. Shojaosadati**, S. Yegane Sarkandy, M. Sadeghyzadeh, 2007, "Flux balance analysis as a tool to predict the effect of the addition of several amino acids on expression of human interleukin- 2 in recombinant *Escherichia coli* BL21", *ibid.*
9. 133. Z.B. Mokhtari Hosseini, A. Heidarzade Vazife-Khoran, E. Vasheghani- Farahani, **S. A. Shojaosadati**, R. Karimzadeh, K. Khosravi-Darani, 2007, "The effect of mixed substrate on PHB production from methanol by *Methylobacterium Extorquens* DSMZ 1340" *ibid.*
10. 134. A. Karimi, **S. A. Shojaosadati**, P. Hejazi, E. Vasheghani Farahani, 2007, "Investigation of the porosity change during solid state fermentation and modeling these changes in terms of growth kinetics and humidity" *ibid.*
11. 135. F. Yazdian, M. Pesaran Haji Abbas, **S. A. Shojaosadati**, M.R. Mehrnia, M.Nosrati, E. Vasheghani Farahani, 2007, "Evaluation of gas holdup and mixing time in loop bioreactors during production of SCP from natural gas" *ibid.*
12. 136. S.A. Ataei, E. Vasheghani Farahani, **S.A. Shojaoadati**, H.A. Tehrani. 2007 "Cultural optimization of carbon and nitrogen sources using cheap substrates for accumulation of PHAs in *Bacillus* strain" *ibid.*
13. 137. S.A. Ataei, E. Vasheghani Farahani, **S.A. Shojaoadati**, H.A .Tehrani. "Accumulation of different medium-chain-length PHAs by microorganisms isolated from date syrup wastes using a mixed carbon source of cheap substrates" *ibid.*
14. 138. A. Hatamian Zarmi, **S. A. Shojaosadati**, S. Hosseinkhani, E. Vasheghani Farahani, A. Emamzadeh, 2007, "Isolation and identification of indigenous microflora degrading PCBs from contaminated soil" *ibid.*
15. 139. Z. Sahebazar, M. Mohammad Taheri, **S. A. Shojaosadati**, M. Nosrati, 2007, "Evaluation of biodegradability of polyethylene under composting condition" *ibid.*
16. 140. A. Bahrami, **S. A. Shojaosadati**, R. Khalilzadeh, E. Vasheghani Farahani, 2008, "An optimized fermentation process for recombinant human G-CSF production by *Pichia Pastoris* fed-batch culture" The 5th international Chemical Engineering Congress&Exhibition (ICHEC 2008) Kish Island, Iran.
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21. 145. M. Pesaran, F. Yazdian, **S. A. Shojaosadati**, M. Nosrati, M.R. Mehrnia, E.Vasheghani Farahani, 2008, “Investigation of loop bioreactor for production of single cell protein (SCP) from natural gas” *ibid*.
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 23. 147. A.A. Hatamian Zarmi, **S. A. Shojaosadati**, E. Vasheghani Farahani, S.Hosseinkhani, A. Emamzadeh, 2008, “Isolation and identification of indigenous microflora degrading PCBs from a contaminated soil with transformer oil” *ibid*.
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 26. 150. S.Derakhti, **S. A. Shojaosadati**, , K.Khejeh, 2009, “ Optimization of alpha amylase production by solid-state fermentation of *Bacillus sp.*KR-8104 in a laboratory scale packed bed bioreactor”, The 6th International Chemical Engineering Congress , Kish Island, Iran.
 27. 151. **S. A. Shojaosadati**, E.Hosseinzadeh, O.Siadat, P. Nouri, 2008, “Immobilization of Acetylcholine Esterase by Using Multiwall Carbon nanotube for a novel flow-through system sensor” The 2nd International Conference on Nanotechnology , Dubai
 28. 152. **S. A. Shojaosadati**, F.Frzan, H. Abdolali tehrani, 2008, “Isolation and Characterization of magnetotactic bacteria from various parts of I.R.Iran” .The 2nd International Conference on Nanotechnology , Dubai
 29. 153. **S. A. Shojaosadati**, H.A. Bahrami, Khalilzadeh, E. Vasheghani- Farahani, 2009, “Feeding strategies for improved production of recombinant hG-CSF in *Pichia pastori* “29th International Exhibition-Congress on Chemical Engineering, Environmental Protection and Biotechnology, Frankfurt- Germany.
 30. 154. **S. A. Shojaosadati**, “Systems Biology: A Disruptive Technology” , 2009, The 6th National Biotechnology Congress of I.R.Iran, Tehran
 31. 155. **S. A. Shojaosadati**, H.Vahidi, H. Cealip,2009 “ Ethanol fermentation of carbon pods extract by *Zymomonas mobilis*” , 3rd International Conference on Environmental Industrial and Applied Microbiology (BioMicroWorld2009), Portugal .
 32. 156. **S. A. Shojaosadati**, A.Maghsoudi, A.Bahrami, M.Nosrati, 2009, “ Relation between methanol metabolism pathway onzymes and β -galactosidase activities during a fod-batch fermentation of *Pichia pastoris*, 3rd International Conference on Environmental Industrial and Applied Microbiology (BioMicroWorld2009), Portugal .
 33. 157. A.Hatamian-zarmi, **S. A. Shojaosadati**, E. Vasheghani-farahani, S. Hosseinkhani,2009 “Biodegradation of nine polychlorinated biphenyls by a newly isolated bacterium, *Pseudomonas aeruginosa* TMU56 obtained from Iranian contaminated soils”, The 6th International Chemical Engineering Congress, Kish Island, Iran.

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36. 160. T.Noiei,Aghaei. **S. A. Shojaosadati**, SA.Mousavi,” Biodegradation of polycyclic aromatic hydrocarbons (PAHs) in petroleum refinery wastewater”, 2010. 13th Iranian National Chemical Engineering Congress.Kermansha
37. 161. N.Nasirpour, SM.Mousavi. **S. A. Shojaosadati**, “Combination of UASB and biofilm packed bed reactor in Tehran refinery wastewater treatment” 2010 . 13th Iranian National Chemical Engineering Congress.Kermansha
38. 162. F.khodarahmi, **S. A. Shojaosadati**,R. Khalilzadeh, M.Mohammadiyan. “Expression, Renaturation and Purification of Recombinant Human Epidermal Growth Factor from *Escherichia coli*” 2010. 13th Iranian National Chemical Engineering Congress.Kermansha
39. 163. S.Saharkhiz, D.Mazaheri, **S. A. Shojaosadati**, Rezvani, “Bioethanol production from carob pod by solid submerged fermentation”, 2011. 13European Biomass Conferance and Exhibition. Berlin-Alman
40. 164. **S. A. Shojaosadati**, 2011, “Advances in Feeding strategies of high cell density cultivation of *E.coli* and *Pichiapastoris* for production of recombinant proteins” IV International Conference on Environmental, industrial and Applied microbiology (Biomicro Word).Torremolinos (Spain)

Courses Taught

Industrial Microbiology, Bioseparation, Biochemical Engineering, Nanobiotechnology, Recombinant protein production technology (last 5 years)

Research Project Leader

1. SCP Production from methanol and cheese whey
2. Bioconversion of lignocellulosic wastes to valuable products
3. Toxic gas removal from air by biofilter (in pilot-scale)

4. Bioleaching of copper from sulfide ore (in pilot-scale)
5. Strategies for production of valuable products from GMO
6. Bioremediation of soil contaminated with derivatives of crude oil
7. National biotechnology Program
8. Production of SCP from natural gas (in pilot-scale)
9. Production of metallic nano-particles with biological methods
10. Production of Albumin nanoparticles for drug delivery
11. Production of Schizophyllan by *Schizophyllum commune* (under development for mass production)
12. High cell density culture of recombinant macroorganism and fed-batch process development for production of recombinant proteins
13. Others

Students Supervised

More than 90 M.Sc. Students

Ph.D. Students supervised

1. Dr M.H. Fazaelpour, "Elimination of hydrophobic Organic Compounds from off-gases using biofilters containing two liquid phases", 2002.
2. Dr H. Salehizadeh, "Characterization of bioflocculant's produced by microorganisms and evaluation of their performance in aqueous two phase fermentation", 2002.
3. Dr Z. Hamidi-Esfahani, "Modeling of heat and mass transfer in solid state packed bed bioreactor", 2002.
4. Dr Asadpour, "Evaluation of the biological methods for extraction of chitin from cyst shell of *Artemia Uromia*", 2003.
5. Dr F. Tabandeh, "Development of high cell density cultivation for hGH production under heat induction in recombinant *E. coli*" 2003.
6. Dr R. Khalilzadeh, "Development of high cell density cultivation for interferon gamma in recombinant *E. coli*" 2003.

7. Dr V. Babaeipour, “Maximizing specific productivity and yield for fed-batch cultivation of recombinant *E. coli* producing interferon gamma”, 2006.
8. Dr P. Hejazi, “Scale-up of Zymotis packed-bed bioreactor”, 2007.
9. Dr A. Bahrami, “Evaluation and optimization of recombinant human granulocyte-colony stimulating factor production in fed-batch culture of *Pichia pastoris*”, 2008.
10. Dr F. Yazdian, “An experimental investigation of process variables for production of single cell protein from natural gas”, 2009.
11. Dr S. Yeganeh-Sarkandi, “Fed-batch cultivation culture of recombinant *E. coli* in the production of interleukin-2”, 2009.
12. Dr A. Hatamian-Zarmi, “Biodegradation of Polychlorinated Bighelenyls (PCB) by Indige nous Microorganisms”, 2009.
13. Dr B. Ebrahimi-Houseinzadeh, “Organophosphorous Compound Indirect Detection Using Novel Electrochemical methods and Immobilized Enzyme”, 2009.
14. Dr M. Hashemi, “Optimization of Ca-independent α -amylase Production by *Bacillus* SP.KR-8104 in batch Fermentation”, 2010.
15. Dr H. Vahid, “Production Of Ethanol From Carob”, 2010
16. Dr A. Maghsoudi, “Development of a New Feeding Stategies in the Fed-batch Cultivation of *Pichia Pastovis* for the Improved Production of Recombinant Proteins”, 2011.
17. Dr S.M. Robatjazi, “Use of nanomagnetite for enzyme immobilization”, 2011.
18. Dr A. Fazeli, “Refolding of Recombinant Protein”, 2013.
19. Dr H. Khuchakzadeh, “Production and in vitro Evaluation of a Targeted Drug Delivery System Containing Tamoxifen Based on Albumin Nanoproticles Conjugated to Monocloral Antibody”, 2013.
20. Dr Mazaheri-Tehrani, “Development of Solid State Fermentation for Biofuel production”, 2013.
21. Dr Sepideh Hamedi, “Improvement of properties of Silver Nanoparticles Produced Using Mycelial Fungi”, 2013.
22. Dr Mohsen Ahi
23. Dr Negar Motakef
24. Dr Tayebbeh Saleh
25. Dr Zahra Azimzadeh, (Metabolic Engineering)
26. Dr Housein Mohammad-Beigi, (Nanobiotechnology)
27. Dr Sayed Ali Maboudi, (Nanobiotechnology)
28. Dr Sayed Ali Maboudi, (Nanobiotechnology)
29. Dr Maryam Safavi (Nanobiotechnology)
30. Dr Hajar Jamshidian (Industrial Biotechnology)
31. Dr Hajar Jamshidian (Industrial Biotechnology)
32. Dr Mahshid Roshani (Bioleaching)
33. Dr Fatemeh Ahmadpour (Nanobiotechnoogy)
34. Dr Alireza Chakoshian (Nanobiotechnoogy)
35. Dr Zohreh Deljoo kojabad (Nanobiotechnoogy)
36. Dr Mohammad Pour-Yaghoubi (Nanobiotechnoogy)
37. Dr Zahra Najarzadeh (Nanobiotechnoogy)

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(At least 20 alumni have been hired as faculty members in top Iranian Universities, the rest of them have been employed in prominent pharmaceutical companies in Iran)

NAMES AND ADDRESSES OF SEVERAL REFEREES

1. Professor, Muarry Moo-Young, Department of Chemical Engineering, University of Waterloo, Canada
2. Professor Andrew Lyddiatt, Department of Chemical Engineering, University of Birmingham, U.K.
3. Professor Babak Bonakdarpour, Department of Chemical Engineering, University of Amirkabir, I.R.I

BOARD MEMBER & MEMBERSHIP OF SCIENTIFIC SOCIETIES

1. Iranian Society of Chemistry and Chemical Engineering
2. Iranian Society of Chemical Engineering
3. Iranian Society of Biotechnology
4. American Chemical Society (Biochemical Division)
5. Board Member of Asian Societies For Lactic Acid Bacteria
6. Board member of Iranian probiotic and functional food association

REFEREE FOR JOURNAL ARTICLES SUBMITTED TO

1. International Journal of Engineering (IRI)
2. Iranian Journal of Chemistry and Chemical Engineering
3. Journal of Science and Technology (Shiraz University)
4. Scientia (Sharif University)
5. Amirkabir (Amirkabir University)
6. Iranian Journal of Biotechnology
7. Iranian Journal of Chemical Engineering
8. Biotechnology Progress

9. Biochemical Engineering Journal
10. Biotechnology and Bioengineering
11. Process Biochemistry
12. Bioresource Technology
13. Bionanomedicin
14. Carbohydrate Polymers
15. International Journal of Pharmaceutics
16. Colloids and Surfaces B: Biointerfaces
17. Biocatalysis and Agricultural Biotechnology
18. Arabian Journal of Chemistry
19. Drug Delivery
20. Journal of Drug Delivery Science and Technology
21. International Journal of Biological Macromolecules
22. International Biodeterioration and Biodegradation
23. Journal of Hazardous Materials
24. Other international journals