

Curriculum Vitae

Professor Seyed Abbas Shojaosadati



Personal Information

Name: Seyed Abbas Shojaosadati

Date of Birth: 25/05/1958

Marital Status: Married

Place of Birth: Yazd

P.O.Box: 14115-143 Tehran, Iran

Tel: (+98)21-82883341-82883803

E-mail: shoja_sa@modares.ac.ir

Fax: (+98)21-82884931

Education

| Degree | Institution | Field | Date |
|---------------|-----------------------|----------------------|-------------|
| B.Sc. | University of Isfahan | Chemistry | 1979 |
| M.Sc. | Birmingham University | Chemical Engineering | 1985 |
| Ph.D. | Birmingham University | Chemical Engineering | 1988 |

Award

Second Winner of 12th International Razi Medical Research Festival, 2007

Outstanding Professor in 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)

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

Books

1. **S. A. Shojaosadati**, Zamir S.M., Tavassoli T., (2016),Protocol for isolation, screening and cultivation of asphaltenes-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”, 8th Edition, Publisher: Tarbiat Modares University, Tehran (Farsi).
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 (Farsi).

Books Chapters

1. **S. A. Shojaosadati**, M.Nosrati, B.Golfar, "Energy Storage and Transduction in Mitochondria", Intech Open Access Publisher, 2011
2. 2. **S. A. Shojaosadati**, Editors: A. Paya, R, Kalantari Nezhad, "Socio-Cultural Impacts of the Fourth Wave of Scientific & Technological Development" Publisher: National Research Institute, 2011, pp 327-341

Patent

P. Hejazi, **S. A. Shojaosadati**, Z. Hamidi, E. Vasheghani, "Solid State Fermentation In Modified Zymotis Packed Bed Bioreactor" Pub. No.: US 2010/0203626 A1

A good number of Persian Patents

Journal Papers

Safavi M., **Shojaosadati S.A.**, Yang H.G., Kim Y., Park E.J., Lee K.C., Na D.H. (2017), Reducing agent-free synthesis of curcumin-loaded albumin nanoparticles by self-assembly at room temperature, *International Journal of Pharmaceutics*, 529,303-309.

Jamshidian H., **Shojaosadati S.A.**, Mousavi S.M., Soudi M.R., Vilaplana F.,(2017) Implications of recovery procedures on structural and rheological properties of schizophyllan produced from date syrup, *International Journal of Biological Macromolecules*.

Safavi M.S., **Shojaosadati S.A.**, Dorkoosh F.A., Jo H.J., Kwon Y.J., Lee K.C., Yang H.G., Park E.J., Na D.H., (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.

Hamedi S., **Shojaosadati S.A.**, Mohammadi,(2017), .Evaluation of the catalytic, antibacterial and anti-biofilm activities of the Convolvulus arvensis extract functionalized silver nanoparticles, *Journal of Photochemistry and Photobiology B: Biology*,167,36-44.

Chackoshian Khorasani A., **Shojaosadati, S.A.**, (2017), Starch-and carboxymethylcellulose-coated bacterial nanocellulose-pectin bionanocomposite as novel protective prebiotic matrices, *Food Hydrocolloids*, 63,273-285.

Mousavi S.B., Fazeli A., **Shojaosadati S.A.**, Fazeli M.R., Hashemi-Najafabadi S.(2017), Purification and efficient refolding process for recombinant tissue-type plasminogen activator derivative (reteplase) using glycerol and Tranexamic acid, *Process Biochemistry*,53,135 144.

Maboudi S.A., **Shojaosadati S.A.**, Arpanaei A. (2017), Synthesis and characterization of multilayered nanobiohybrid magnetic particles for biomedical applications, *Journal Materials & Design*, 115,317-324.

Bardania H., **Shojaosadati S.A.**, Kobarfard F., Dorkoosh F., Esfahani Zadeh M., Naraki M., Faizi M (2017), Encapsulation of eptifibatide in RGD-modified nanoliposomes improves platelet aggregation inhibitory activity, *Journal of thrombosis and thrombolysis*, 43,184-193.

Kouchakzadeh, H., Soudi T., Heshmati Aghda N., **Shojaosadati S.A.**, (2017), Ligand-modified biopolymeric nanoparticles as efficient tools for targeted cancer therapy, *Journal Current pharmaceutical design,in Press*

Rahaiee,S., Hashemi M., **Shojaosadati S.A.**, Moini S., Razavi S.H., (2017), Nanoparticles based on crocin loaded chitosan-alginate biopolymers: Antioxidant activities, bioavailability and anticancer properties, *International Journal of Biological Macromolecules*, 99, 401-408.

Kalantari H., Nosrati M., **Shojaosadati S.A.**, Shavandi M., (2017),Investigation of transient forms of sulfur during biological treatment of spent caustic, *Environmental Technology*,1-10

Parnian P., Zamir S.M., **Shojaosadati S.A.**,(2017), Effect of operating temperature on styrene mass transfer characteristics in a biotrickling filter,*Environmental technology*,38,1324-1332

Shojaosadati S.A.,Naeimipour S., Fazeli A.,(2017), FTIR investigation of secondary structure of Reteplase inclusion bodies produced in *Escherichia coli* in terms of urea concentration,*Iranian Journal of Pharmaceutical Research, In Press*.

Miri B., Motakef-Kazemi N., **Shojaosadati S.A.**,Morsali A.,(2017), Application of a nanoporous metal organic framework based on iron carboxylate as drug delivery system, *Iranian Journal of Pharmaceutical Research, In Press*

Heidari H.,Sedighi M., Zamir S.M, Shojaosadati S.A,(2017), Bisphenol A degradation by Ralstonia eutropha in the absence and presence of phenol, *International Biodeterioration & Biodegradation*,119,37-42

Nasirpour N.,Zamir S.M.,**Shojaosadati S.A.**,(2017), 21 Immobilization Techniques for Microbial, *Handbook of Metal-Microbe Interactions and Bioremediation*,357

Alinejad A., Zamir S.M., **Shojaosadati S.A.**,(2017), Different strategies for transient-state operation of a biotrickling filter treating toluene vapor, *Applied microbiology and biotechnology*,101,3451-3462

Ijadi Bajestani M., Mousavi S.M., Jafari A.,**Shojaosadati S.A.**,(2017), Biosynthesis and physicochemical characterization of a bacterial polysaccharide/polyamide blend, applied for microfluidics study in porous media, *International journal of biological macromolecules*,96,100-110

Papizadeh M., Nahrevanian H., Rohani M., Hosseini S.N., **Shojaosadati S.A.**, (2017) Lactobacillus rhamnosus Gorbach-Goldin (GG): A Top Well-Researched Probiotic Strain, Journal of Medical Bacteriology, 5, 46-59

Nezammahalleh H., Nosrati M., Ghanati F., **Shojaosadati S.A.**, (2017), Exergy-based screening of biocompatible solvents for in situ lipid extraction from Chlorella vulgaris, Journal of Applied Phycology, 29, 89-103

Chackoshian Khorasani A., **Shojaosadati S.A.**, (2017), Pectin-non-starch nanofibers biocomposites as novel gastrointestinal-resistant prebiotics, International journal of biological macromolecules, 94, 131-144

Feiz Soleimani F., Saleh T., **Shojaosadati S.A.**, Poursalehi R., (2017), Green Synthesis of Different Shapes of Silver Nanostructures and Evaluation of Their Antibacterial and Cytotoxic Activity, BioNanoscience, 1, 9

Zamir S.M., Tavassoli T., **Shojaosadati S.A.**, (2017) Protocol for Isolation, Screening, and Cultivation of Asphaltene-Degrading Microorganism, Hydrocarbon and Lipid Microbiology Protocols: Isolation and Cultivation, 119-129

Rastegar S.O., Mousavi S.M., **Shojaosadati S.A.**, Sheibani S., (2017), Kinetic constants determination of petroleum refinery effluent treatment in a UASB reactor using RSM, Environmental Engineering Management Journal (EEMJ), 16

Kalantari H., Nosrati M., **Shojaosadati S.A.**, Shavandi M., (2017), Optimization of Factors Affecting on Sulfide Oxidation from Synthetic Spent Caustic by Haloalkaliphilic Thioalkalivibrio versutus: Application of Response Surface Methodology, Iranian Journal of Chemical Engineering, 14, 75

Chackoshian Khorasani A., **Shojaosadati S.A.**, (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, 179-191

T.Saleh, **S. A. Shojaosadati**, 2016, "Multifunctional nanoparticles for cancer immunotherapy" Human Vaccines & Immunotherapeutics, 2164-5515 (Print) 2164-554X (Online).

H. Bardania, **S. A. Shojaosadati**, F. Kobarfard , F. Dorkoosh, 2016, "Optimization of RGDmodified Nano-liposomes Encapsulating Eptifibatide" Iran J Biotech, 14(2): e1399, 33-40.

N. Motakef-Kazemi, **S. A. Shojaosadati**, A. Morsali, 2016, "Evaluation of the effect of nanoporous nanorods Zn₂(bdc)₂(dabco) dimension on ibuprofen loading and release" J Iran Chem Soc, 13:1205-1212.

H. Kouchakzadeh, S. Hoseini Makarem, **S. A. Shojaosadati**, 2016, "Simultaneous loading of 5-flourouracil and SPIONs in HSA nanoparticles: Optimization of preparation, characterization and in vitro drug release study" Nanomed. J., 3(1): 35-42.

H. Mohammad-Beigi, **S. A. Shojaosadati**, D. Morshedi, N. Mirzazadeh, A. Arpanaei, 2016, “ The Effects of Organic Solvents on the Physicochemical Properties of Human Serum Albumin Nanoparticles” *Iran J Biotech*, 14(1):e1168, 45-50.

S. M. Ghaseminezhad, **S. A. Shojaosadati**, 2016, “Data on the role of starch and ammonia in green synthesis of silver and iron oxide nanoparticles” *Data in Brief* 7 , 999 – 1003.

S. M. Ghaseminezhad, **S. A. Shojaosadati**, 2016, “Evaluation of the antibacterial activity of Ag/Fe₃O₄ nanocomposites synthesized using starch” *Carbohydrate Polymers* 144, 454- 463.

Z. Deljoo Kojabada, **S. A. Shojaosadati**, 2016, “Chemical Synthesis of Polypyrrole Nanostructures: Optimization and applications for neural microelectrodes” *Material and Design* 96, 378-384.

Z. Azimzadeh Irani, Eduard J. Kerkhoven, **S. A. Shojaosadati**, Jens Nielsen, 2016, “ Genome-Scale Metabolic Model of *Pichia pastoris* With Native and Humanized Glycosylation of Recombinant Proteins” *Biotechnology and Bioengineering*, Vol. 113, No. 5, 961–969.

Z. Goudarzi, **S. A. Shojaosadati**, R. H. Sajedi, A. Maghsoudi, 2016, “Optimization of Autoinduction Conditions for the Heterologous Expression of a Maltogenic Amylase in *Escherichia coli*” *Applied Food Biotechnology*, 3 (2): 105-113.

A. Chakoshian Khorasani, **S. A. Shojaosadati**, 2016, “Bacterial nanocellulose-pectin bionanocomposites as prebiotics against drying and gastrointestinal condition” *International Journal of Biological Macromolecules* 83, 9-18.

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, 257-266.

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” *The Royal Society Of Chemistry*, 12, 1241-1249.

S. O. Rastegar, S. M. Mousavi, **S. A. Shojaosadati**, Tingyue Gu, 2016, “Bioleaching of fueloil ash using *Acidithiobacillus thiooxidans* in shake flasks and a slurry bubble column bioreactor” *The Royal Society Of Chemistry*, 6,21756-21764.

H. Azargoshasb, S. M. Mousavi, O. jamialahmadi, **S. A. Shojaosadati**, S. B. Mousavi, 2016, “Experiments and a three-phase computational fluid dynamics (CFD) simulation coupled with population balance equations of a stirred tank bioreactor for high cell density cultivation” *The Canadian Journal Of Chemical Engineering*, Volume 94, 20-32.

P. Parnian, S. M. Zamir, **S. A. Shojaosadati**, 2016, “Styrene vapor mass transfer in a biotrickling filter: Effects of silicone oil volume fraction, gas-to-liquid flow ratio, and operating temperature” *Chemical Engineering Journal* 284 , 926–933.

D. Mazaheri, **S. A. Shojaosadati**, P. Hejazi, S. M. Mousavi, 2015, "Bioethanol production performance in a packed bed solid-state fermenter: evaluation of operational factors and intermittent aeration strategies" *Ann Microbiol.*, 65, 351–357 .

N. Nasirpour, S. M. Mousavi, and **S. A. Shojaosadati**, 2015, "Biodegradation potential of hydrocarbons in petroleum refinery effluents using a continuous anaerobic-aerobic hybrid system" *Korean J. Chem. Eng.*, 32(5), 874-881.

S. O. Rastegar, S. M. Mousavi, **S. A. Shojaosadati**, R. Sarraf Mamoory, 2015, "Bioleaching of V, Ni, and Cu from residual produced in oil fired furnaces using *Acidithiobacillus ferrooxidans*" *Hydrometallurgy*, 157, 50-59.

P. Shahsavarzadeh-Jangi, **S. A. Shojaosadati**, S. Hashemi-Najafabadi, S. M. Mousavi, 2015, "Assessment of Bioavailability of Crude Oil in Three Different Agricultural Soils" *Iranian Journal of Chemical Engineering* Vol. 12, No. 1, 3-12.

T. Saleh, Azam Bolhassani , Seyed Abbas Shojaosadati, Saman Hosseinkhani, 2015, "Evaluation of Cell Penetrating Peptide Delivery System on HPV16E7 Expression in Three Types of Cell Line" *Iran J Biotech*, 13(1), e1115, 55-62.

H. Mohamad-Beigi, **S. A. Shojaosadati**, A. T ayaranian Marvian, J. Negergaard Pederson, L. Hyldgaard Klausen, G. Christiansen, J. Skov Pedersen, M. Dong, D. Morshedi, D. E. Otzen, 2015, "Strong interactions with polyethylenimine-coated human serum albumin nanoparticles (PEI-HSA NPs) alter α -synuclein conformation and aggregation kinetics" *Royal Society of Chemistry*, 7, 19627-19640.

Z. Deljoo Kojabad, **S. A. Shojaosadati**, 2015, "Chemical Synthesis of Polypyrrole Nanotubes for Neural Microelectrodes" *Procedia Materials Science* 11, 147 – 151.

T. Saleh, A. Bolhassani, **S. A. Shojaosadati**, M. R. Aghasadeghi, 2015, "MPG-based nanoparticle: An efficient delivery system for enhancing the potency of DNA vaccine expressing HPV16E7" *Vaccine* 33 (28) 3164-3170.

F. Rezvani, H. Azargoshasb, O. Jamialahmadi, S. Hashemi-Najafabadi, S. M. Mousavi, **S. A. Shojaosadati**, 2015, "Experimental study and CFD simulation of phenol removal by immobilization of soybean seed coat in a packed-bed bioreactor" *Biochemical Engineering Journal* 101, 32-34.

Z. Azimzadeh Irani, A. Maghsoudi, **S. A. Shojaosadati**, E Motamedian, 2015, "Development and in silico analysis of a new nitrogen-limited feeding strategy for fed-batch cultures of *Pichia pastoris* based on a simple pH-control system" *Biochemical Engineering Journal* 98. 1-9.

S. M. Zamir, S. Babatabar, **S. A. Shojaosadati**, 2015, "Styrene vapor biodegradation in single- and two-liquid phase biotrickling filters using *Ralstonia eutrophus*" *Chemical Engineering Journal* 267, 21-27.

S. Rahaiee, **S. A. Shojaosadati**, M. Hashemi, S. Moini, S. H. Razavi, 2015, "Improvement of crocin stability by biodegradeble nanoparticles of chitosan-alginate" International journal of biological macromolecules 28 (79) 423-432.

H. Mohammad-Beigi, **S. A. Shojaosadati**, D. Morshedi, A. Arpanaei, A. Tayaranian Marvian, 2015, "Preparation and in vitro characterization of gallic acid-loaded human serum albumin nanoparticles" Journal of Nanoparticle Research 17:167.

S. Rahaiee, M. Hashemi, S. Moini, **S. A. Shojaosadati**, S. H. Razavi, 2015, "Comparison of phytochemical constituents and antioxidant activities of aqueous and alcoholic extracts of saffron" Quality Assurance and Safety of Crops & Foods 7 (4), 521-529.

Gh. Fadaeian, **S. A. Shojaosadati**, H. Kouchakzadeh, F. Shokri, M. Soleimani, 2015, "Targeted Delivery of 5-fluorouracil with Monoclonal Antibody Modified Bovine Serum Albumin Nanoparticles" Iranian journal of pharmaceutical research 14 (2) 395-405.

M. Hashemi, **S. A. Shojaosadati**, S. H. Razavi, S. M. Mousavi, 2015, "Different catalytic behavior of α -amylase in response to the nitrogen substance used in the production phase" Journal of Industrial and Engineering Chemistry 21, 772-778.

H. Kouchakzadeh, M. S. Safavi, **S. A. Shojaosadati**, 2015, "Efficient Delivery of Therapeutic Agents by Using Targeted Albumin Nanoparticles", Advances in Protein Chemistry and Structural Biology (98) 121-143.

N. Nasirpour, S. M. Mousavi, **S. A. Shojaosadati**, 2015, "A study on cell surface hydrophobicity, growth and metabolism of Zymomonas mobilis influenced by PEG as a pretreatment agent" RSC Advances 5 (60) 48176-48180.

S. O. Rastegar, S. M. Mousavi, **S. A. Shojaosadati**, 2015, "Bioleaching of an oil-fired residual: process optimization and nanostructure NaV₆O₁₅ synthesis from the bioleachate" RSC Advances 5 (51) 41088-41097.

B. Khazra, S. M. Mousavi, S. Mehrabi, M. Hashemi, **S. A. Shojaosadati**, 2015, "Biodegradation of heptadecane in hydrocarbon polluted dune sands using a newly-isolated thermophilic bacterium, *Brevibacillus borstelensis* TMU30: statistical evaluation and process optimization" RSC Advances 5 (42) 33414-33422.

S. Kheradmandnia, S. Hashemi-Najafabadi, **S. A. Shojaosadati**, S.M. Mousavi, Kh. Malek Khosravi, 2015, "Development of parallel miniature bubble column bioreactors for fermentation process" J chem. Technol biotechnol, Volume 90, Issue 6, 1051–1061.

M. Hashemi, S.H. Razavi, **S. A. Shojaosadati**, S.M. Mousavi, 2015, "Different catalytic behavior of α -amylase in response to the nitrogen substance used in the production phase" Journal of Industrial and Engineering Chemistry, Volume 21, Pages 772–778.

E. Sadat Hosseini, R. Kasra Kermanshahi, S. Hosseinkhani, **S. A. Shojaosadati**, M. Nazari, 2015, "Conjugated linoleic acid production from various substrates by probiotic lactobacillus plantarum" J Ann Microbiol, Volume 65, Issue 1, pp 27–32.

R. Panahi, E. Vasheghani-Farahani, **S. A. Shojaosadati**, B. Bambai, 2014, "Auto-inducible Expression System Based on the SigB-dependent ohrB Promoter in *Bacillus subtilis*" Molecular Biology 48 (6) 852-857.

D. Mazaheri, **S. A. Shojaosadati**, 2014, "ChemInform Abstract: Mathematical Models for Microbial Kinetics in Solid-State Fermentation: A Review." Iranian Journal of Biotechnology;11(3), 156-167.

H. Kouchakzadeh, **S. A. Shojaosadati**, F. Shokri, 2014, "Efficient loading and entrapment of tamoxifen in human serum albumin based nanoparticulate delivery system by a modified desolvation technique" Journal Chemical Engineering Research and design, 92, 1681-1692.

S. Kheradmandnia, S.M. Mousavi, S. Hashemi-Najafabadi, **S. A. Shojaosadati**, 2014, "Modeling and CFD Simulation of Hydrodynamics and Mass Transfer in a Miniature Bubble Column Bioreactor" Journal of Engineering and technology sciences, 2, 223-242.

S. O. Rastegar, S.M. Mousavi, M. Rezaei, **S. A. Shojaosadati**, 2014, " Statistical evaluation and optimization of metals from molybdenite concentrate using Acidianus brierleyi" Journal of Industrial and Engineering Chemistry, Volume 20, Issue 5, 3096–3101.

A. Karimi, **S. A. Shojaosadati**, P. Hejazi, Ebrahim Vasheghani farahani, M. Hashemi,"Porosity changes durings packed bed solid-state fermentation " J of Industrial and Engineering chemistry, 2014, *In press*.

H. Kouchakzadeh, **S. A. Shojaosadati**, F. Shokri, "Efficient Loading and entrapment of tamoxifen in human serum albumin based nanoparticulate delivery system by a modified desolvation technique", Chemical Engineering Research and Design, 2014, *In press*.

S. Hamed, **S. A. Shojaosadati**, S. Shokrollahzadeh, S. Hashemi-Najafabadi, 2014, " Extracellular biosynthesis of silver nanoparticles using a novel and non-pathogenic fungus, *Neurospora intermedia*: controlled synthesis and antibacterials activity", J Microbiol Biotechnol, 30, 693-704.

N. Motakef-Kazemi, **S. A. Shojaosadati**, A.Morsali, 2014, "In Situ Synthesis of a drugloaded MOF at room Temperature" Microporous and Mesoporous Materials, 186, 73-79.

N. Motakef-Kazemi, **S. A. Shojaosadati**, A.Morsali, 2014, "Metal organic framework $[Zn_2(1,4-bdc)_2(dabco)]_n$ as drug delivery" Advanced Materials Research, 829,247-250.

Z. Deljou Kojabad, S. Sanjabi, **S. A. Shojaosadati**, 2014, "Electrodepositon of gold and Polypyrrole thin films for neural microelectrodes" Advanced Materials Research, 829, 337341.

M. Ahi, M. Azin, **S. A. Shojaosadati**, E. Vasheghani farahani, M. Nosrati, 2013, “ Optimization of Sugarcane Bagasse Hydrolysis by Microwave-Assisted Pretreatment for Bioethanol Production” Chemical Engineering Technology, 36, 11, 1997-2005.

M. Hashemi, S. M. Mousavi, S. H. Razavi, **S. A. Shojaosadati**, 2013, “ Comparison of submerged and solid state fermentation systems effects on the catalytic activity of *Bacillus* sp.

KR-8104 α -amylase at different pH and temperatures” Industiral Crops and Products, 43, 661667.

Sh. Yegane Sarkandy, **S. A. Shojaosadati**, R. Khalilzadeh, 2013, “The Effect of Mg²⁺ and Mn²⁺ on Over-Production of Interlekin-2 in Recombinant *E.coli*” Iran.J. Chem. Eng, 32, 1, 127-131.

M. R. Mofarrahi, **S. A. Shojaosadati**, 2012, “Antibacterial properties of pure titanium coated with silver nanoparticles” J, Nano and Biomaterials, 4, 281-289.

S. Saharkhiz, D. Mazaheri, **S. A. Shojaosadati**, 2013, “ Evalution Of Bioetheanol Production From Carob Pods By Zymomonas mobilis AND Saccharomyces cerevisiae In Solid Submerged Fermentation” J. Preparative Biochemistry&Biotechnology, 43, 415-430.

H. Kouchakzadeh, **S. A. Shojaosadati**, J. Mohammadnejad, M. Paknejad, M.J. Rasaee, 2013, “Attachment of an anti-MUC1 monoclonal antibody to 5-FU loaded BSA nanoparticles For active targeting of breast cancer cells” J, Human Antibodies, 21, 49-56.

H. Kouchakzadeh, **S. A. Shojaosadati**, F. Tahmasebi, F. Shokri, 2013, “Optimization of an anti-HER2 monoclonal antibody targeted delivery system usinf PEGylated human serum albumin nanoparticles” International Journal of Pharmaceutics, 477, 62-69.

A. Fazeli, **S. A. Shojaosadati**, M. R. Fazeli, kh. Khalifeh, Sh. Ariaeenejad, A. A. MoosaviMovahedi, 2013, “The role of trehalose for metastable state and functional form of recombinant interferon beta-1b”J of Biotechnology,163, 318-324.

F. Yazdiyan, **S. A. Shojaosadati**, M. NosratiT, M. Pesaran Haji Abbas, E.V. Farahani, 2012, “Mixing Studies in Loop Bioreactors For Production of Biomass From Natural Gas” Iranian Journal Of Chemical Engineering, 31, 91-101.

V. Ghadirian, **S. A. Shojaosadati**, S. Hashemi-Najafabadi, 2012, “ Evaluation of *Bacillus subtilis*, Acinetobacter calcoaceticus, and Pseudomonas for bio-deemulsification of watercrude oil emulsion” Iranian Journal Of Chemical Engineering, 30, 133-139.

D. Mazaheri, **S. A. Shojaosadati**, S.M. Mousavi, P.Hejazi, S.saharkhiz, 2012, “Biotechno production from carob pods by solid-state fermentation with zymomonas mobilis” J. Applied Energy, 99, 372-378.

S. Hamedi, S. M. Ghaseminezhad, **S. A. Shojaosadati**, S. Shokrollahzadeh, 2012, “Comparative study on silver nanoparticles properties produced by green methods” Iranian J Of Biotechnology, 10, 3, 191-197.

S. M. Ghaseminezhad, S. Hamedi, **S. A. Shojaosadati**, 2012, “ Green synthesis of silver nanoparticles by a novel method: Comparative study of their properties” J, Carbohydrate Polymers, 89, 467-472.

F. Rahnama, E.V. Farahani, F. Yazdian, **S. A. Shojaosadati**, 2012, “ PHB production by methylocystis hirsute from natural gas in a bubble column and a vertical loop bioreactor” J, Biochemical Engineering, 65, 51-56.

M. Mohammad-Taheri, E.V. Farahani, H. Hosseinkhani, **S. A. Shojaosadati**, M. Soleimani, 2012, “Fabrication and characterization of a new MRI contrast agent based on a magnetic dextran-spermine nanoparticle system” Iranian Polymer Journal, 21(4), 239-251.

M. Hashemi, **S. A. Shojaosadati**, S.H. Razavi, S. M. Mousavi, Kh. Khajeh, M. Safari, 2012 “The Efficiency of Temperature-Shift Strategy to Improve the Production of -amylase by Bacillus sp. In a Solid-State Fermentation System”, J Food Bioprocess Technol. 15, 10931099.

A. Maghsoudi, S. Hosseini, **S. A. Shojaosadati**, E.V. Farahani, M. Nosrati, A. Bahrami, 2012, “A new Methanol-feeding Strategy for the Improved Production of α -galactosidase in High Cell-density Fed –batch Cultures of *Pichia pastoris* Mut⁺ Strains “J Biotechnology and Bioprocess Engineering 17, 76-83.

S. M. Robatjazi, **S. A. Shojaosadati**, R. Khalilzadeh, E.V. Farahani, N. Balochi, 2012 , “Immobilization of magnetic Modified *Flavobacterium* ATCC 27551 using magnetic field and evaluation of the enzyme stability of immobilized bacteria” Bioresource Technology, 104, 611.

A. Ghiyasedin, **S. A. Shojaosadati**, E.V.Farahani,”Modification and optimization of chitin extraction process from shrimp shell.” Iranian Journal of Chemical Engineering, 30(1), 1-9.

T. Tavassoli, S.M. Mousavi, **S. A. Shojaosadati**, H. Salehizadeh, 2011, “Asphaltene biodegradation using microorganisms isolated from oil samples” Fuel, 93, 142-148.

M. Hashemi, S.M. Mousavi, S.M. Razavi, **S.A. Shojaosadatai**, 2011, “Mathematical Modeling of biomass and α -amylase production Kinetics by Bacillus sp. In solid-state fermentation based on solid dry weight variation”, Biochemical Engineering Journal. 53, 159164.

A. Hajipour, N. Moghadam, M. Nosrati, **S. A. Shojaosadati**, 2011,”Aerobic Thermophilic Treatment Of Landfili Leachate In A Moving-Bed Biofilm Bioreactor” Iran. J. Environ, 8(1). 3-14

M. hashemi, **S. A. Shojaosadati**, S.H. Razavi, S.M. Mousavi, 2011,”Evaluation of Caindependent α -amylase production by Bacillus sp. KR-8104 in submerged and solid state fermentation systems” Iranian Journal Of Biotechnology, 9(3), 188-239.

A. Fazeli, **S. A. Shojaosadati**, M.R. Fazeli, H. Ilka, 2011,” Effect of parallel feeding of oxidizing agent and protein on fed-batch refolding process of recombinant interferon beta-1b, Process Biochemistry, 46,796-800.

B. Ebrahimi, **S. A. Shojaosadati**, P. Daneshgar, P. Norouzi, S.M. Mousavi, 2011, “Performance evaluation of fast Fourier-transform continuous cyclic-voltammetry pesticide biosensor”, *Analytica Chimica Acta*, 687, 168-176.

M. Hashemi, S.H. Razavi, **S. A. Shojaosadati**, S.M. Mousavi, 2011, “The potential of brewer’s spent grain to improve the production of α-amylase by *Bacillus* sp. KR-8104 in submerged fermentation system”, *New Biotechnology*, 28(2), 165-172.

E. Hosnani, M. Nosrati, **S. A. Shojaosadati**, 2010, “Role Of Extraxellular Polymeric Substances in Dewaterability of Untreated, Sonicated And Digested Waste Activated Sludge” *Iran.J.Environ*, 7(5) 395-400.

F. Yazdian, **S. A. Shojaosadati**, M. Nosrati, E. Vasheghani-Farahani, 2010 “Comparison of Different Loop Bioreactors Based on Hydrodynamic Characteristics, Mass Transfer, Energy Consumption and Biomass Production From Natural Gas” *Journal Of Chemical Engineering Science* , 29(4), 37-56.

A. Bahrami, **S. A. Shojaosadati**, R. Khalilzadeh, A.R. Saeedinia, E.Vasheghani Farahani, J.Mohammaduan-Mosaabadi, 2010, “Production of recombinant human granulocyte-colony stimulating factor by *Pichia pastoris*, *Iranian Journal of Biotechnology*, 162-169.

P. Hejazi, F. Borenberg, G. Isik, K. Rupar-Gadd, G. Strandmark, **S. A. Shojaosadati**, U. Welander, 2010 “Treatment of α-Pinene- Contaminated Air Using silicone Oil-Coated Perlite Biofilter”, *Environmental Progress&Sustainable Energy*, 29(3), 313-318.

Sh.Yeganesarkandy, R. khalilzadeh, **S. A. Shojaosadati**, M. Sadeghizadeh, A. Mohammadfarnoud, 2010, “A novel amino acid supplementation strategy based on a stoichiometric model to enhance human IL-2 (interleukin-2) expression in high-cell-density *Escherichia coli* cultures”, *Biotechnol.Appl.Biochem*, 57, 151-156.

S. A. Shojaosadati, F. Ganji, B. Zahedi, H.A. Rafiee_pour, H. Ghouchian, 2010, “Effect of Different CNTs Oxidation Methodson Thiocoline Detection by surfactant Modified Graphite Electrodes” *j. Nanosci. Nanotechnol*, 6(4), 195-204

H. Kouchakzadeh, **S. A. Shojaosadati**, A. Maghsoudi, E. Vasheghani Farahani, 2010, “Optimization of PEGylation Conditions for BSA Nanoparticles Using Response Surface Methodology”, *AAPS PharmSciTech*, 11(3), 1206-1211.

S. M. Robatjazi, **S. A. Shojaosadati**, R. Khalilzadeh& E.Vasheghani-Farahani , 2010 “Optimization of the covalent coupling and ionic adsorption of magnetic nanoparticles on *flavobacterium ATCC27551* using the taguchi method”, *Biocatalysis and Biotransformation*, 28(5-6), 304-312.

H. Vaheed, **S. A. Shojaosadati**, H.Galip, 2010,” Evaluation and optimization of ethanol production from carob pod extract by *Zymomonas mobilis* using response surface methodology” , *J Ind Microbiol Biotechnol*, 38, 101-111.

H. Aghajani-Lazarjani. E. Vasheghani-Farahani, **S. A. Shojaosadati**, S. Hashemi-Najafabadi, S. Zahediasl, T. TTiraihi, F. Atyabi. 2010, “The effect of two different polyethylene glycol (PEG) derivatives on the immunological response of PEG grafted pancreatic islets”, *J Artif Organs*, 13, 218-224.

B. Ebrahimi, **S. A. Shojaosadati**, S. M. Mousavi, 2010, “ Evaluation and Optimization of factors Affecting the Performance of a flow-through system based on immobilized acetylcholineesterase as a biosensor”, *Biotechnology and Bioprocess Engineering*, 15, 383391.

S. M. Mousavi, **S. A. Shojaosadati**, J. Golestani, F. Yazdian. 2010, “CFD simulation and optimization of effective parameters for biomass production in a horizontal tubular loop bioreactor”, *Chemical Engineering and processing*, 49, 1249-1258.

S. Boozarpour, M. Sadeghizadeh, M.A. Shokrgozar, S.Hosseinkhani, **S. A. Shojaosadati**, S. Gharavi, Gh. Ahangari, B. Ranjbar,2010, “Bacterial overexpression of the human interleukin-2 in insoluble from via the pET Trx fusion system”, *Iranian J of Biotechnology*, 8(3), 270-274.

M. Dashti Saridorgh, Y. Roozbehani, **S. A. Shojaosadati**, 2010, “The Efct Neuspora sitophila Fungi on Chemical comprsition, Digestibility and Degradability of Sugar Beet pulp”, *Iranian J.Animal Science*, 40(4), 1-12.

M. Hashemi, **S. A. Shojaosadati**, 2010, “Genetically-modified foods: opportunities & challenges”. *Sciences & Food Technology*,7(1), 89-102.

B. Ebrahimi, **S. A. Shojaosadati**, S.M. Mousavi, 2010, “ A new changeable bioreactor for detection of organophosphate in a flow-through system”, *Iranian Journal of Biotechnology*, 8(3), 164-171.

M. Hashemi, S.H. Razavi, **S. A. Shojaosadati**, S.M. Mousavi, K. KHajeh, M. Safari, 2010 “Development of a solid-state fermentation process for production of an alpha amylase with potentially interesting properties, *Journal of Bioscience and Bioengineering*, 110(3), 337-333.

F. Farzan, **S. A. Shojaosadati** , H.A. Tehrani, 2010, “A preliminary report on the isolation and identification of magnetotactic bacteria from iran environment” *Iranian Journal of Biotechnology*, 8(2), 102-98.

B. Golfar, M. Nosrati, **S. A. Shojaosadati**, 2010, “A thermodynamic approach to energy transduction in mitochondria” *J.Non-Equilib.Thermodyn*, 35, 15-34.

Z. S. Aghamiri, M. R. Mehrnia, Sh. Fatemi, **S. A. Shojaosadati**, F. Yazdian, 2010.”Mathematical modeling of a horizontal tubular loop bioreactor for biomass production from natural gas”, *Process Biochemistry*, 45, 1393-1400.

V. Babaeipour, **S. A. Shojaosadati**, R. Khalilzadeh, N. Maghsudi, A. Mohammad Farnoud.2010. “Enhancement of Human γ -Interferon Production in Recombinant E.coli Using Batch Cultivation”, *Appl Biochem Biotechnol* , 160, 2366-2376.

S. Esfandiar, S. Hashemi-Najafabadi, **S. A. Shojaosadati**, S. A. Sarrafzadeh and Z. Pourpak.

2010. "Purification and refolding of Escherichia coli-expressed recombinant human interleukin-2", Biotechnol. Appl. Biochem, 55, 209–214.

Z. S. Aghamiri, M.R. Mehrnia, F. Yazdian, **S. A. Shojaosadati** and S. Fatemi. 2009. "Evaluation of growth kinetics models for a methanotrophic bacteria on natural gase", Chemical Engineering Science Journal, 43(1), 11-18.

F. Yazdian, M. Pesaran Hajiabbas, **S. A. Shojaosadati**, M. Nosrati, E. VasheghaniFarahani, M.R. Mehrnia. 2009. "Study of hydrodynamics, mass transfer, energy consumption, and biomass production from natural gas in a forced-liquid vertical tubular loop bioreactor", Biochemical Engineering Journal 49, 192-200.

F. Yazdian, **S. A. Shojaosadati**, M. Nosrati, M. Pesaran Hajiabbas, K. Malek Khosravi, 2009. "On-Line Measurement of Dissolved Methane Concentration During Methane Fermentation in a Loop Bioreactor", Iran.J.Chem.Chem.Eng, 28(4), 13-21.

Z. B. Mokhtari-Hosseini, E.Vasheghani-farahani, **S. A. Shojaosadati**, R.Karimzadeh, 2009. "Media Selection for Poly (hydroxybutyrate) Production from Methanol by *Methylobacterium extorquens DSMZ1340", Iran.J.Chem.Chem.Eng, 28(3), 45-52.*

A. Khosravi, **S. A. Shojaosadati**. 2009."Evaluation of silver nanoparticles produced by fungus *Fusarium oxysporum* ", Int.J.Nanotechnol, 6,973-983.

Z. Sahebnazar, **S. A. Shojaosadati**, M. Mohammad-Taheri, M. Nosrati. 2010. "Biodegradation of low-density polyethylene (LDPE) by isolated fungi in solid waste medium", Waste Management, 30, 396–401.

B. Ebrahimi, **S. A. Shojaosadati**, S.O. Ranaie, S.M. Mousavi. 2010, "Optimization and evaluation of acetylcholine esterase immobilization on ceramic packing using response surface methodology", Process Biochemistry, 45 (1), 81-87.

F. Gharekhani,N.Ghaemi, **S. A. Shojaosadati**, 2009, "Lactic acid production by cell immobilization method and insitu extractional Fermentation" vol.22. j.karbordi

A. Hatamian-Zarmi, **S. A. Shojaosadati**, E. Vasheghani-Farahani, S. Hosseinkhani, A. Emamzadeh. 2009, "Extensive biodegradation of highly chlorinated biphenyl and Aroclor 1242 by *Pseudomonas aeruginosa TMU56* isolated from contaminated soils", International Biodeterioration & Biodegradation. 63, 788-794.

Z.B. Mokhtari-Hosseini, E. Vasheghani-Farahani, **S. A. Shojaosadati**, R. Karimzadeh, A. Heidarzadeh Vazifehkhoran. 2009. "Effect of feed composition on PHB Production from methanol by HCDC of *Methylobacterium extorquens (DSMZ 1340)*", Society of Chemical Industry. 84, 1139-1139.

S. Yeganeh-Sarkandi, A.M. Farnoud, **S. A. Shojaosadati**, R. Khalilzadeh, M. Sadeghizadeh, B. Ranjbar, V. Babaeipour. 2009, "Overproduction of human interleukin-2 in recombinant Escherichia

coil BL21 high-cell-density culture by the determination and optimization of essential amino acids using a simple stoichiometric model”, Biotechnology and Applied Biochemistry, 54, 31-39.

Z. B. Mokhtari-Hosseini, E. Vasheghani-Farahani, A. Heidarzadeh Vazifehkhoran, **S. A. Shojaosadati**, R. Karimzadeh, K. Khosravi Dariani. 2009, “Statistical Media Optimization for Growth and PHB Production from Methanol by Methylotrophic Bacterium”, Bioresource technology. 100, 2436-2443.

A. Darban, **S. A. Shojaosadati**, A. Yaraghi. 2009. “Recovery of Metal from Low Grade Oxide Minerals by Using Aspergillus niger”, Mineral processing and Extractive Metallurgy.18, 73-77.

F. Sarvi, S. Hashemi Najafabadi, E. Vasheghani-Farahani, **S. A. Shojaosadati**. 2009, “Surface Coating of Red Blood Cells with Monomethoxy poly-Ethylene Glycol Activated with Two Different Reagents”, Iranian Chemistry and Chemical Engineering. (27-3), 1-9.

F. Yazdian, **S. A. Shojaosadati**, M. Nosrati, M. Pesaran Hajiabbas, E. Vasheghani-Farahani. 2009. “Investigation of gas properties, design, and operational parameters on hydrodynamic characteristic, mass transfer, and biomass production from natural gas external airlift loop bioreactor”, Chemical. Eng. Sci. 64, 2455- 2465.

A. Bahrami, **S. A. Shojaosadati**, R. Khalilzadeh, J. Mohammadian, E. Vasheghani-Farahani, Masomian. 2009. “Prevention of human granulocyte colony-stimulating factor protein aggregation in recombinant Pichia pastoris fed-batch fermentation using additives”, Biotechnology and Applied Biochemistry. 52, 141-148.

F. Yazdian. **S. A. Shojaosadati**, M. Nosrati, M.R. Mehrnia, E. Vasheghani-Farahani. 2009, “Study of geometry and operational conditions on mixing time, gas hold up, mass transfer, flow regime and biomass production from natural gas in horizontal tubular loop bioreactor”, Chemical. Eng. Sci. 64, 540-547.

V. Babaeipour, **S. A. Shojaosadati**, R. Khalilzadeh, N. Maghsoudi, F. Tabandeh. 2009. “A proposed feeding strategy for overproduction of recombinant proteins in Escherichia coli”, Biotechnol. Appl. Biochem. 49, 1-7.

A. Maghsoudi, **S. A. Shojaosadati**, E. Vasheghani-Farahani. 2008. “5-Fluorouracil-Loaded BSA Nanoparticles: Formulation Optimization and In Vitro Release Study”, AAPS PharmSciTech. 9, 1092-1096.

R. Panahi, E. Vasheghani-Farahani, **S. A. Shojaosadati**. 2008. “Determination of adsorption isotherms for L-lysine imprinted polymer”, Iranian Journal of Chemical Engineering. 5(4), 49-55.

S. **A. Shojaosadati**, S.M. Varedi Koulai, V. Babaee, A.M.Farnod. 2008. “Recent Advances in High Cell Density Cultivation for Production of Recombinant Protein”, Iranian Journal of Biotechnology. 6(2), 63-84.

- A. Bagherzadeh Namazi, **S. A. Shojaosadati**, S. Hasemi-Najafi. 2008. "Biodegradation of Used Engine Oil Using Mixed and Isolated Cultures", International Journal of Environmental Research. 2, 431-440.
- S.A. Ataee, E. Vasheghani-Farahani, **S. A. Shojaosadati**, H. Abdol Tehrani. 2008. "Isolation of PHA-producing bacteria from date syrup waste", Macromolecular symposium. 296, 11-16.
- M. Nosrati, A. Jalali, **S. A. Shojaosadati**, Serikerishnan. 2008. "Determination of Biooxidation Energy Released by Thermopiles in Secondary and Mixed Bio-Solids Determination of Bio-Oxidation Energy Released by Thermopiles in Secondary and Mixed Bio-Solids", Iranian J. Chem. & Chem. Eng. 26, 24-31.
- S. A. Shojaosadati**, A.bahrami sharifi, R.Khalilzadeh, E.Vasheghani-Farahani, 2008. "twostage glycerol feeding for enhancement of recombinant hG-CSF production in a fed-batch culture of Pichia pastoris", Biotechnology letters. 30, 1081-1085.
- S. A. Shojaosadati**, M. Pazuki, K. Yaghoubi . 2008. "Variable opimization for biopulping of agricultural residues by ceriporipsis subvermispora", Bioresource technology. 99, 8-12.
- H. Alvandi, M. Azar, **S. A. Shojaosadati**. 2008. "Diacetyl Production in Batch Fermentation Process by Lactic Starter Cultures". Journal of Food Science and Technology. 5(2), 27-39.
- A. Bagherzadeh-Namazi, **S. A. Shojaosadati**, S. Hashemi-Najafabadi. 2008. "Biodegradation of Used Engine Oil Using Mixed and Isolated Cultures". International Journal of Environmental Research. 2(4), 431-440.
- S. A. Shojaosadati**, S.M. Varedi-Kolaei, V. Babaepour, A.M. Farnoud. 2008. "Recent advances in high cell density cultivation for production of recombinant protein". Iranian Journal of Biotechnology. 6(2), 63-84.
- S. A. Ataei, E, Vasheghani Farahani, **S. A. Shojaosadati**, H.A. Tehrani,2008, "Isolation of PHA-producing bacteria from date syrup waste".Macromolecular Symposium. 269, 11-16.
- H. Alvandi, M. Azar, **S. A. Shojaosadati**. 2008. "Diacetyl production in batch fermentation process by lactic starter cultures lactic".Iranian Journal of food science and technology, 5(2), 27-39.
- A. Bahrami, **S. A. Shojaosadati**, R. Khalilzadeh, E. Vasheghani- Farahani. 2008, "Two-stage glycerol feeding for enhancement of recombinant hG-CSF production in fed-batch culture of Pichia Pastoris", Biotechnology Letters, 30, 1081-1085.
- K. Yaghoubi, M. Pazouki, **S. A. Shojaosadati**, 2008, "Variable optimization for biopulping of agricultural residues by Ceriporiopsis subvermispora", Bioresource Technology, 99, 43214328.
- V. Babaepour , **S. A. Shojaosadati**, R. Khalilzadeh , N. Maghsoudi, F. Tabandeh, 2008, "A proposed feeding strategy for overproduction of recombinant proteins in Escherichia coli", Biotechnology and Applied Biochemistry, 49, 1-7.

S. A. Shojaosadati, Z. Hamidi Esfahani, P. Hejzi, E. Vasheghani-Farahani, Arein Rinzema . 2007. "Evaluation of strategies for temperature and moisture control in solid state packed bed bioreactors" ,Iranian Journal of Biotechnology. 5, 219-225.

S.M. Varedi Koulai, R. Karimzadeh, **S. A. Shojaosadati**, J. Towfighi-Dariani. 2007. "Modeling of single cell protein production from cheese whey using tanks-in-series model". Iranian J. Biotechnology. 5(2), 87-92.

S. A. Shojaosadati, S.Nematian, S. Hashemi Najafabadi. 2007. "Investigating the effect of soil organic carbon on bioavailability of pollutant and comparing its bioremediation in insitu slurry bioreactor". Amirkabir . 16(67), 17-23.

S. A. Shojaosadati, Z. Hamidi-Esfahani, P. Hejazi, E. Vasheghani- Farahani, A. Rinzema. 2007. "Evaluation of strategies for temperature and moisture control in solid state packed bed bioreactors" . Iranian Journal of Biotechnology. 5(4), 219-225.

S. K. Shafaghi asl, J. Towfighi Darian, **S. A. Shojaosadati**. 2007. "Effect of aeration on COD of whey". Iranian Chemical Engineering Journal. 6(30), 65-70.

K. Nazem, Y. Ruzbahan, **S. A. Shojaosadati**. "Nutritional values of citrus waste treated by Neurospora sitophila". Science and Technologies in Agriculture and Natural Resources. 43(B), 495-505.

S. K. Shafaghiasl, J. Tofiqhi Darian, **S. A. Shojaosadati**. 2007, "Efficiency of airlift reactor in producing single cell protein from cheese Whey". Iranian Journal of Food Science and Technology, 4(2): 47-56.

S. Hashemi Najafabadi, E. Vasheghani Farahani, **S. A. Shojaosadati**, Y. Iwanaga, 2007, "Surface coating of islets of langerhans by activated polyethylene glycol", Journal of Polymer Science and Technology, 6, 529-538.

R. Panahi, E. Vasheghani-Farahani, **S. A. Shojaosadati** 2007, "Separation of l-lysine from dilute aqueous solution using molecular imprinting technique", Biochemical Engineering Journal, 35(3), 352-356.

S.M. Varedi Kolaei, R. Karimzadeh, **S. A. Shojaosadati**, J. Towfighi, 2007, "Modeling of single cell protein production from cheese whey using tanks-in-series model", Iranian Journal of Biotechnology 5(2), 87-92.

A. Mohammadian ,**S. A. Shojaosadati**, M. Rezaee, "A Fusarium oxysporum mediates Photogeneration of Silver Nanoparticles", Iranica Scientia

Z.Hamidi Esfahani, P. Hejzi, **S. A. Shojaosadati**, M.Hoogschagen, E.Vasheghani-Farahani, A. Rinzema, 2007, "A two-phase kinetic model for fungal growth in solid-state cultivation",Biochemical Engineering Journal, 36(2), 100-107.

M. Nosrati, **S. A. Shojaosadati**, M. Jalali, T.R. Sreekrishnan, 2007, "Determination of BioOxidation Energy Released by Thermophiles in Secondary and Mixed Bio-Solids", Iranian Journal of Chemistry and Chemical Engineering, 26 (2) 125-130.

V. Babaeipour, **S. A. Shojaosadati**, S.M. Robatjazi, R. Khalilzadeh, N. Maghsoudi, 2007, "Over-production of human interferon-N by HCDC of Recombinant Escherichia coli", Process Biochemistry 42, 112-117.

Z.Ahangi, **S. A. Shojaosadati** et al. "Production of fungal protein using Oxysporum PTCC 5115". Nutrition Science and Food Industry of Iran. 1(2), 29-34.

S.M. Varedi Koolaee, **S. A. Shojaosadati**, V. Babaeipour, N. Ghaemi, 2006,"Physiological and morphological changes of recombinant E.coli during over-expression of human interferon- in HCDC", Iranian Journal of Biotechnology, 4(4), 230-238.

F. Sarvi, E. Vasheghani-Farahani, **S. A. Shojaosadati**, S. Hashemi- Najafabadi, M. Moin, Z. Pourpak, 2006, "Surface treatment of red blood cells with monomethoxypoly(ethylene glycol) activated by succinimidyl carbonate", Iranian Polymer Journal, 15 (6), 2006, 525-534.

M.H. Fazaelipoor, **S. A. Shojaosadati**, E. Vasheghani-Farahani, 2006, "Two Liquid Phase Biofiltration for Removal of n-Hexane from Polluted Air", Environmental Engineering Science, 23 (6) 954-959.

S. Hashemi-Najafabadi, E. Vasheghani-Farahani, **S. A. Shojaosadati**, 2006, "A Method to Optimize PEG Coatings of Red Blood Cells", Bioconjugate Chemistry, 17 -1288-1293.

S. Hashemi-Najafabadi, E. Vasheghani-Farahani, **S. A. Shojaosadati**, 2006, "Surface treatment of red blood cells with monomethoxypoly(ethylene glycol) activated by succinimidyl carbonate", Iranian Polymer Journal, 15 (6) 525-534.

S. Hashemi-Najafabadi, E. Vasheghani-Farahani, **S. A. Shojaosadati**, M.J. Rasaee, M. Moin, Z. Puorpak, 2006, "Factorial Design Optimization of Red Blood Cell PEGylation with a Low Molecular Weight Polymer", Iranian Polymer Journal, 15 (8) 675-683.

P. Shafiee, **S. A. Shojaosadati** and A.H. Charkhabi. 2006,"Biodegradation of polycyclic aromatic hydrocarbons by aerobic mixed bacterial culture isolated from hydrocarbon polluted soils", Iranian Journal of chemistry and chemical Engineering ,25(3) 73-78.

M. Nosrati, **S. A. Shojaosadati** and T.R.Sreekrishnan,2006,"Thermophilic aerobic digestion of activated sludge; reduction of solids and pathogenic microorganisms" Iranian Journal ofChemistry and Chemical Engineering, 25 (1), 67-71.

F.Yazdian,S.Taghizadeh, **S. A. Shojaosadati**, R. Khalilzadeh, M. Jahanshahi and M.Nosrati, 2005, "Production of single cell protein from natural gas: Parameter optimization and RNA evaluation" Iranian Journal of Biotechnology, 3(4), 235-242.

N.Golmakani, M.J.Rasaee, M.Froozandeh, **S.A.Shujaosadsati**, S.Kashani and K.Omidifar, 2005 “Continuous production of monoclonal antibody in a packed-bed bioreactor”, Biotechnology and Applied Biochemistry 41,1-6.

M. Nosrati, **S. A. Shojaosadati** , T.R. Sreekrishnan and S.N.Mukhopadhyay ,2004, “Inhibition of thermophilic anaerobic digestion of waste food by long chain fatty acid and propionate”, Iranian Journal of Biotechnology, 2(4), 261-268.

F. Tabandeh, **S. A. Shojaosadati**. B.Yaghchali, M.Khodabandeh, M.H.Sanati, 2005,”Evaluation of Heat induction strategy for recombinant human growth hormone expression in fed-batch fermentation”, Iranian Journal of Biotechnology 3(1),24-30.

R.Khalilzadeh , **S. A. Shojaosadati**, A.Bahrami and N.Maghsoudi, 2004,”Fed-batch cultivation of recombinant E.coli producing human interferon gama under controlled specific growth rate”, Iranian Journal of Biotchnology,2(2),113-121.

S. Hashemi-Najafabadi,E.Vasheghani-Farahani,**S. A. Shojaosadati** and M.J.Rasaee,2005,”Evaluation of the surface treatment of red blood cells by polymer coating”, Polymer Science and Technology Journal,18(5),311-317.

M. Farshidy, **S. A. Shojaosadati** and M. Saffary, 2004, “Investigation of the effects of mixed cultures of mesophile bacteria on the bioleaching of sulfidic copper ores with different mineralogy” Amirkabir,15 (58), 423-434.

F. Tabandeh, B. Yakhchali, **S. A. Shojaosadati**, M. Khodabandeh and M.H. Sanati, 2004, “Growth Kinetics and human growth hormone production of a heat-inducible recombinant E.coli during batch fermentation”, Iranian Journal of Science & Technology, Transaction A, 28(A1), 11-17.

M. Jahanshahi, S. Eilliams, A. Lyddiatt and **S. A. Shojaosadati**, 2004, “Preparation and purification of synthetic protein nanoparticulates”,IEE. Proceedings Nanobiotechnology, 151(5), 176-182.

K. Khosravi-Darani, E. Vasheghani-Farahani, **S. A. Shojaosadati** and Y. Yamini, 2004, “Effect of process variables on supercritical fluid disruption of Ralstonia eutropha cells for poly (R-hydroxybutyrate) recovery”, Biotechnology Progress, 20, 1757-1765.

S. S.Fatemi, J.Towfighi-Darani, B.Yakhchali and **S. A. Shojaosadati**, 2004, “Media and Specific Growth Rate Selection for High-cell-density Cultivation of Recombinant Escherichia coli Producing hGM-CSF in fed-batch process”, Iranian Journal of Chemical Engineering, 1(1), 47-56.

N.Golmakani, M.J.Rasaee, M.Forouzandeh and **S. A. Shojaosadati**, 2004, “Large Scale Production of Monoclonal Antibody Avoiding Down-Stream Poocessing”,

S.M. Robatjazi, **S. A. Shojaosadati** and M. Karbasy, 2004,”Purification of L-Lysine in simulated moving bed and fixed-bed chromatography”, Chinese Journal of chromatography, 22(4), 431-

Z. Hamidi Esfahani, **S. A. Shojaosadati**, A. Rinzema, 2004, "Modelling of simultaneous effect of moisture and temperature on *A. niger* growth in solid-state fermentation", Biochemical Engineering Journal, 21, 265-274.

J. Mohammadian - Mosabadi, H. Naderi-Manesh, N. Maghsoudi, R. Khalilzadeh, **S. A. Shojaosadati**, M. Ebrahimi, 2004, "The effect of oxidative stress on production of recombinant human interferon-gamma in *Escherichia coli*", Biotechnology and Applied Biochemistry, 41, 37-42.

K. Khosravi-Darani, E., Vasheghani-Farahani. and **S. A. Shojaosadati**, 2004, "Application of the Taguchi design for production of poly (β-hydroxybutyrate) by *Ralstonia eutropha*", Iranian Journal of Chemistry and Chemical Engineering 23(1), 131-136.

Y.A. Asadpour, **S. A. Shojaosadati**, A. Ghoroghi, M.R. Kalbassi, and A. Khosrowshahi, 2004, "Determination of chemical and biochemical composition of *Artimia urmiana* cyst shell and Extraction of its Chitin", Iranian Scientific Fisheries Journal, 12, 1-13.

Y.A. Asadpour, **S. A. Shojaosadati**, M.R. Kalbassi, and A. Khosrowshahi, 2002, "Extraction of chitin from cyst shell of *Artimia urmiana*" Iranian Journal of Marine Science, 1(3), 1-9.

K. Khosravi-Darani and **S. A. Shojaosadati**, 2003, "A solid state fermentation system for production of ethanol from apple pomace", Modares Technical and Engineering Journal, 10, 55-61.

R. Rezaei Sardari, E. Vasheghani-Farahani and **S.A. Shojaosadti** 2003, "Lactic acid production by *Lactobacillus casei* in a Fed-batch fermentation of whey: Optimization of feed conditions", Modares Technical and Engineering journal, 10, 25-32.

R. Rezaei Kalantary, A. Badkoubi, **S. A. Shojaosadati**; and H. Gangidoust, 2004, "Biodegradation of Anthracene in supersaturated medium by contaminated soil micro organisms mixed culture" Modares Technical and Engineering, 14, 39-49.

K. Khosravi-Darani, E. Vasheghani Farahani, **S. A. Shojaosadati**, 2003, "Application of the Plackett-Burman statistical design to optimize poly (β-hydroxybutyrate) production by *Ralstonia eutropha* in batch culture", Iranian Journal of Biotechnolgy, 1(3), 155-161.

H. Zilouei, **S. A. Shojaosadati**, R. Khalilzadeh and B. Nasernejad, 2003, "Bioleaching of copper from low-grade ore using isolated bacteria and defined mixed cultures", Iranian Journal of Biotechnology", 1(3), 162-167.

S.S. Fatemi, B. Yakhchali, J. Towfighi-Dariani, **S. A. Shojaosadati**, A. Zomorodipour, A.A. Karkane, and F. Rastgar Jazlit, 2003, "Selection of a suitable strain from recombinant *Escherichia coli* strains with the same genetic structure expressing periplasmic hGM-CSF", Journal of Bioscience and Bioengineering, 96(6) 578-580.

F. Tabandeh, **S. A. Shojaosadati**, A. Zomorodipour, M. Khodabandeh, M.H. Sanati and B.Yakhchali, 2004, "Heat-induced production of human growth hormone by high cell density cultivation of recombinant *Escherichia coli*", Biotechnology letters, 26, 245-250.

R. Khalilzadeh, **S. A. Shojaosadati**, N. Maghsoudi, J. Mohammadian - Mosaabadi, M.R. Mohammadi, A. Bahrami, N. Maleksabet, M.A. Nassiri-Khalilli, M. Ebrahimi and H. Naderimanesh, 2004, "Process development for Production of recombinant human interferon expressed in *Escherichia coli*", Journal of Industrial Microbiology Biotechnology, 31, 63-69.

R. Khalilzadeh, **S. A. Shojaosadati**, A. Bahrami and N. Maghsoudi, 2003, "Over-expression of recombinant human interferon - gamma in high cell density fermentation of *Escherichia Coli*", Biotechnology Letters, 25(23), 1989-1992.

Y.A. Asadpour, **S. A. Shojaosadati**, M.R. Kalbasi and A. Kosroushhi Asl, 2003, "Quality evaluation of chitin and chitosan extracted from Cyst Shell of the *Artimia urmiana* and its comparison with other types from Shrimp and Carb's shell", Polymer Science and Technology Journal. 16(No 2),89-94.

H.Salehzadeh and **S. A. Shojaosadati**,2003,"Removal of metal ions from aqueous solution by polysaccharide produced from *Bacillus firmus*", Water Research ,17,4231-4235.

Z. Hamidi-Esfahani, **S. A. Shojaosadati** and E. Vasheghani- Farahani, 2003, "An empirical model of *A. niger* growth in solid state fermentation", Amirkabir,14(53), 59-68.

M. Hosseini, **S. A. Shojaosadati** and J. Towfighi, 2003, "Application of a bubble-column reactor for the production of a single-cell protein from cheese whey", Industrial and Engineering Chemistry Research, 42, 764-766.

S. A. Shojaosadati and M.H. Fazaelipor, 2003, "Biofiltration of n-Hexane from Airstreams", Amirkabir, 14, 157-161.

Y. Asadpour, **S. A. Shojaosadati**, M.R. Kalbasi and A.Khosroshahi, 2003, "Extraction of chitin and production of chitosan from *Artemia urmiana* cyst shells", Iranian Marin Science, 3, 1-7. (Farsi)

K. Khosravi Darani, **S. A. Shojaosadati**, 2003, "Production of ethanol from apple pomace by solid state Fermentation", Modares Technical and Engineering Journal, 10, 55-60 . (Farsi)

A. Ghoodarzi, **S. A. Shojaosadati**, 2002, "Isolation, selection and optimization of growth conditions of photosynthetic bacteria in batch fermentation", Iranian Journal of chemistry and chemical Engineering. 20, No.1, 55-62.

S. A. Shojaosadati and S. Hashami Najafabadi, 2002, "Bioremediation of hydrocarbon polluted soil", International Journal of Engineering Science. 13, No. 4, 11-20.

M.H.fazaelipoor and **S. A. Shojaosadati**, 2002,"The effect of silicon oil on biofiltration of hydrophobic compound", Environmental Progress, 21, No. 4, 221-225.

S. A. Shojaosadati and A. Seifi, 2001, "The performance of compost biofilter for hydrogen sulfide removal from contaminated air" Esteghlal Journal of Engineering. 20, No.1.43-53.

H. Salehizadeh and **S. A. Shojaosadati**, 2001 “Isolation and characterisation of a bioflocculant produced by *Bacillus firmus*” Biotechnology Letters, 24, 35-40.

S. **A. Shojaosadati** and V. Babaeipour, 2001, “Citric acid production from apple pomace in multi-layer packed bed solid - state bioreactor”, Process Biochemistry, 37,909-914.

H.Salehizadeh and **S. A. Shojaosadati**,2001,”Extracellular biopolymorphic flocculant: recent trends and its biotechnological importance”, Biotechnology Advances, 19, 371-385.

F.Tabandeh, B. Yakhchali, **S. A. Shojaosadati** , M.Khodabandeh and M.H.Sanati, 2001, “ Growth Kinetics and Human Growth Hormone Production of a Heat-inducible Recombinant *Fschrichia Coli* during batch Fermentation”, Iranian Journal of Science& Technology,

A.Bahrami and **S. A. Shojaosadati**, G Mohebali, 2001,”Bidegradation of dibenzothiophene by thermophilic bacteria”, Biotechnology Letters, 23(11) 899-901.

S.S. Fatemi and **S. A. Shojaosadati**, 2000, “Citric acid production from apple pomade by using solid state fermentation”, Iranian Journal of Chemistry and Chemical Engineering.18, No. 182, 44-48.

S. A. Shojaosadati, B. Rasouli, 2000, “ Isolation and validation of the proper Microorganism for producing single cell protein utilizing whey”, Isfahan University Research Journal, 11(1). (Farsi)

S. A. Shojaosadati, et al 2000, “Bioconversion and enzymatic activities of *Neurospora sitophila* grown under solid state and submerged fermentation on Sage hampers”, International Journal of Engineering.13, No. 3, 65-69.

S. A. Shojaosadati, Y. Chisti, and M. Moo-Young, 1999, “Reduction of nucleic acids levels in *Neurospora sitophila* by heat treatment”, International Journal of Engineering Science.10, No. 2, 83-93.

M.R.Jahani, J.Masoudi and **S. A. Shojaosadati**, “ Production and purification of Toxocariasis second-stage Larval excretory- secretory antigen and its application in diagnosing of infection “. Kosar Medicine Journal, 1(2), 147-157. (Farsi)

S. A. Shojaosadati, M. Rezaei, and B. Rasouli, 1999, “Optimization of Citric Acid Production by Using Experimental Design in Solid-State Fermentation by *Aspergillus niger*” ,Esteghlal Journal of Engineering, 18, No. 1

S. A. Shojaosadati, M. Rezaei, and B. Rasouli, 1999, “Optimization of SCP production from cheese whey under continuous cultivation”, , Iranian Journal of Chemistry and Chemical Engineering,11, No. 43, 314-320.

S. A. Shojaosadati, and S. Elyasi, 1999, “Removal of hydrogen sulfide by the compost biofilter with sludge of leather industry”, Resources, Conservation and Recycling, 27, 139144.

S. A. Shojaosadati, R. Khalilzadeh, A. Jalilzadeh, and H.R. Sanaei, 1999, "Bioconversion of molasses stillage to protein as an economic treatment of this effluent", Resources, Conservation and Recycling, 27, 125-138.

S. A. Shojaosadati, A. Faraidouni, A. Madadi-Nouei, I. and I. Mohamadpour, 1999, "protein enrichment of lignocelluloses substrates by solid state fermentation using Neurospora sitophila", Resources, Conservation and Recycling, 27, 73-87.

S. A. Shojaosadati, Y. Chisti and M. Moo-Young, 1998, "solid state fermentation of untreated-leached beet pulp with Neurospora sitophila", Iranica Scientia, 5 (3,4)

R. Faraidouni and **S. A. Shojaosadati**, 1998, "Protein enrichment of wheat bran by Neurospora Sitophila using solid state fermentation", Amirkabir, 39,211-216.

S. **A. Shojaosadati** et. al, 1997, "SCP production from stillage" Iranian Journal of Chemistry and Chemical Engineering.17, No. 2,73-79.

S. A. Shojaosadati, H. R. Sanaei and S. M. Fatemi, 1996, "The use of cell and stillage recycle in conventional ethanol fermentation" Journal of Chemical Technology and Biotechnoogy 97,362-366.

S. A. Shojaosadati and M. N. Ghazali, 1996, "Single-Cell protein (SCP) production from Methanol-utilizing Bacteria" in I. R. Iran, AmirKabir, 8, No.30,33-41.

H. Torabizadeh, **S. A. Shojaosadati**, and H.A. Tehrani, 1996 "Preparation and Characterization of Bioemulsifier from Saccharomyces cerevisiae and its application in food products". Lebensmittel Wissenschaft Und Technologie 29, 734-734.

S.H.Razavi, **S. A. Shojaosadati**, M.Hamed, 1995, "Extraction and measurement of beta carotene from carrot juice and its applications in Sunflower oil", Journal of Basic Sciences. 7(1-2), 24-31.

S. A. Shojaosadati and A. Lyddiatt, 1994, "Preparation and Characterisation of immunoabsorbents for High Performance Liquid Affinity Chromatography", Iranian Journal of Chemistry and Chemical Engineering .13, No1,59-67.

A. Lyddiatt, M.A. Desai, J.G. Huddleston, J. Rudge and **S. A. Shojaosadati**, 1988. "Controlled fabrication and operation of immunoabsorbents." Journal of Chemical Technology and Biotechnolog 45, 47-60.

A. Lyddiatt, M.A. Desai, J.G. Huddleston, **S. A. Shojaosadati**, Sansomsmith and C.W. Wells, 1988. "Solid phases and product Recovery: new options for bios elective adsorption. In: World

Biotechnology Report, on line publication, London,167-172.

S. A. Shojaosadaty, and A. Lyddiatt, 1987. "Application of affinity HPLC to recovery and monitoring operations in biotechnology (ed. M. J. Verrall and M. J. Hudson), Ellis-Harwood, Chi Chester, V. K 436- 445.

S. A. Shojaosadati, 1989, "A brief review of biotechnology and impact on future of human life", Darou va Darman, 62, 33-41. (Farsi)

J. Rudge, M.A. Desai, **S. A. Shojaosadati**, and A. Lyddiatt, 1987, "Continuous culture of marine hybridomas with integrated product recovery. In: modern approaches to animal cell Technology (ed. R. E. Spire and J. B. Griffith), Butter worth, London, 556-575.

CONGRESS AND SEMINAR PAPERS (Since 2007)

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.
126. E. Seyed Jafari, **S. A. Shojaosadati**, N. Ghaemi, 2007, "Linking antibody to Albumin nanoparticles for the production of controlled drug delivery system" ibid.
127. Z. Mokhtari Hosseini, A. Heidarzade Vazife-Khoran, E. Vasheghani- Farahani, **S. A. Shojaosadati**, R Karimzadeh, K Khosravi-Darani, 2007, "Optimization of a cultivation medium for growth of Methylobacterium Extorquens" ibid.
128. M. Pesaran, F. Yazdian, **S. A. Shojaosadati**, M.R. Mehrnia, M Nosrati, E. VasheghaniFarahani, 2007 "Investigation of gas holdup, mixing time and flow regime in a loop bioreactor for the production of SCP from natural gas" ibid.
129. Y. Asadpour, A. Motallebi, **S. A. Shojaosadati**, 2007, "Biotechnological approach for production of chitin and chitosan from Artemia urmiana cyst shell" ibid.
130. **S. A. Shojaosadati**, P. Shafiei, A.H. Charkhabadi, P. Sazandechi, A. Ziedini, S. Hashemi Najafabadi, 2007, "Bioremediation of polycyclic hydrocarbons (PAHs) and their adsorption/desorption in soil" International Conference on Environmental, Industrial and Applied Microbiology (BioMicroWorld2007), Seville, Spain.
131. A.M. Farnoud, S. Yegane Sarkandy, **S. A. Shojaosadati**, V. Babaeipour, M. Sadeghzadeh, 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.
132. A. Karimi, A.M. Farnoud, **S. A. Shojaosadati**, S. Yegane Sarkandy, M. Sadeghzadeh, 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.

133. Z.B. Mokhtari Hosseini, A. Heidarzadeh 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.
134. A. Karimi, **S. A. Shojaosadati**, P. Hejazi, E. Vasheghani Farahani, 2007, “Investigation of the porosity change during solid state fermenttion and modeling these changes in terms of growth kinetics and humidity” ibid.
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.
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.
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.
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.
139. Z. Sahebnazar, M. Mohammad Taheri, **S. A. Shojaosadati**, M. Nosrati, 2007, “Evaluation of biodegradability of polyethylene under composting condition” ibid.
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.
141. A. Bahrami, **S. A. Shojaosadati**, R. Khalilzadeh, E. Vasheghani Farahani, 2008, “Enhancement of oxygen transfer and recombinant hGCSF production in *Pichia Pastoris* fed-batch fermentation” ibid.
142. S.A. Ataei, E. Vasheghani Farahani, **S. A. Shojaosadati**, H.A. Tehrani,2008, “Poly (hydroxylbutyrate-co-hydroxyvalerate) production in a batch fermentation of cheap substrates with co-cultures of *Propionibacterium shermanii* and a *Bacillus* strain isolated from date syrup waste” ibid.
143. Z.B. Mokhtri-Hosseini, A. Heidarzadeh-Vazifehkoran, E. Vasheghani Farahani, **S. A. Shojaosadati**, R. Karimzadeh, K. Khosravi Darani, 2008, “Media selection for poly (hydroxyl butyrate) production from methanol by *Methylobacterium extorquens DSMZ 1338*” ibid.

144. A.M. Farnoud, S. Yegane Sarkandy, **S. A. Shojaosadati**, M.Sadeghyzadeh, V. Babaeipour, R. Khalilzadeh, 2008, “Full factorial design experiments for investigating the effect of calculated amounts of amino acids on cell density and production of human interleukin-2 in recombinant E.coli BL21” ibid.
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.
146. Z. Sahebnazar, M. Mohammadtaheri, **S. A. Shojaosadati**, M. Nosrati, 2008, “Evaluation of biodegradability of polyethylene by isolated fungi” ibid.
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.
148. A. Karimi, **S. A. Shojaosadati**, P. Hejazi, E. Vasheghani Farahani, 2008,”Porosity change during solid-state fermentation of Aspergillus niger in laboratory scale packed bed bioreactors” ibid.
149. A.Bahrami, **S. A. Shojaosadati**, R. Khalilzade, E. Vasheghani-Farahani, A. Saedinia, J. Mohammadian. 2008 “Optimization of medium compositions and environmentak conditions for secretory production of recombinant human G-CSF by Pichia Pastoris”. The First National Conference of Applied Microbiology , Tehran, Iran.
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.
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
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
153. **S. A. Shojaosadati**, H.A. Bahrami, Khalilzadeh, E. Vasheghani- Farahani, 2009, “Feedmg strategies for improved production of recombinant hG-CSF in Pichia pastori “29th International Exhibition-Congress on Chemical Engineering, Environmental Protection and Biotechnology, Frankfurt- Germany.
154. **S. A. Shojaosadati**, “Systems Biology: A Disruptive Technology” , 2009, The 6th National Biotechnology Congress of I.R.Iran, Tehran

155. **S. A. Shojaosadati**, H.Vahidi, H. Cealip,2009 “ Ethanol fermentation of carbon pods oextract by Zymomonas mobilis” , 3rd International Conference on Environmental Industrial and Applied Microbiology (BioMicroWorld2009), Portugal .
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 .
157. A.Hatamian-zarmi, **S. A. Shojaosadati**, E. Vasheghani-farahani, S. Hosseinkhani,2009 “Biodegradation of nine polychlorinated biphenyls by a newly isolated bacterium, Pseudomonas aeroginosa TMU56 obtained from Iranian contaminated soils”, The 6th International Chemical Engineering Congress, Kish Island, Iran.
158. H.Roohian, E.Vasheghani-farahani **S. A. Shojaosadati**, 2009,” Investigation the effect of redox potential on the enhancement of PHB production by Wautersia eutropha” ibid .
159. H.Moteshafi, **S. A. Shojaosadati**, K. Khaje, E. Vasheghani-farahani, 2009. “Biosynthesis and Comparison silver nanoparticles production by fusarium oxysporum in the presence of silver nitrate and sulfate” ibid.
160. T.Noei,Aghaei. **S. A. Shojaosadati**, SA.Mousavi,” Biodegradation of polycyclic aromatic hydrocarbons (PAHs) inpetroleum refinery wastewater”, 2010. 13th Iranian National Chemical Engineering Congress.Kermansha
161. N.Nasirpour, SM.Mousavi. **S. A. Shojaosadati**, “Combination of UASB and biofilm packed bed reactor in Tehranrefinery wastewater treatment” 2010 . 13th Iranian National Chemical Engineering Congress.Kermansha
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
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
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, Environmental Biotechnology,

Biochemical Engineering, Enzyme Technology,Nanobiotechnology

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
4. Boleaching of copper from sulfide ore
5. Strategies for production of valuable products from GMO
6. Bioremediation of soil which contaminated with derivatives of crude oil
7. National biotechnology Program
8. Production of SCP from natural gas
9. Production of metallic nano-particles with biological methods
10. Production of Albumin nano-particles for drug delivery
11. Others

Students Supervised

More than 90 M.Sc. Students

Ph.D. Students supervised

1. Dr M.H. Fazaelipour, "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 *Artimia 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 Strategies 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 Nanoparticles Conjugated to Monoclonal Antibody", 2013.
20. Dr D. 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 Tayebeh Saleh

PhD Students under supervision

1. Mrs Zahra Azimzadeh, (Metabolic Engineering)
2. Mr Housein Mohammad-Beigi, (Nanobiotechnology)
3. Mr Sayed Ali Maboudi, (Nanobiotechnology)
4. Mr Hassan Bardania, (Nanobiotechnology)
5. Mrs Masoumeh Ghasemi-Nejad, (Nanobiotechnology)
6. Mrs Maryam Safavi (Nanobiotechnology)

7. Mrs Hajar Jamshidian (Industrial Biotechnology)
8. Mr Babak Mousavi (Refolding)
9. Mrs Mahshid Roshani (Bioleaching)
10. Mrs Fatemeh Ahmadpour (Nanobiotechnoogy)

11. Mr Alireza Chakoshian (Nanobiotechnoogy)
12. Mrs Zohreh Deljoo kojabad (Nanobiotechnoogy)
13. Mr Mohammad Pour-Yaghoubi (Nanobiotechnoogy)
14. Mr Mahmoud Rahimi Zarchi (Monoclonal Antibody)

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

MEMBERSHIP OF SCIENTIFIC SOCIETIES:

1. Iranian Society of Chemistry and Chemical Engineering
2. Iranian Society of Chemical Engineering
3. Iranian Society of Biotechnology
4. International Society of Environmental Biotechnology
5. American Chemical Society (Biochemical Division)
6. Pakistan Society of Microbiology

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. Other international journals