

Curriculum Vitae

Personal information:

First name: *Seyyed Mohammad*

Last name: *Mousavi*

Birth Date: 5 Jun 1978

Nationality: Persian

Present Job Title: Associate Professor

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Biotechnology Group, Chemical Engineering Department, Tarbiat Modares University, Tehran, Iran

Education:

* Ph.D. in Chemical Engineering (2003-2007), Sharif University of Technology, Tehran, Iran.

* M.Sc. in Chemical Engineering (2000-2002), Sharif University of Technology, Tehran, Iran.

* B.Sc. in Chemical Engineering (1996-2000), Shahid Bahonar University of Kerman, Kerman, Iran.

Interests:

*** *Environmental Biotechnology:***

- *Bioleaching*

- *Bioremediation*

- *Biodesulfurization*

- *Wastewater Treatment*

*** *Food Biotechnology***

* *CFD Simulation and Mathematical Modeling of Biological Phenomena*

* *Statistical Modeling and Optimization of Biochemical Processes*

Teaching experience:

* *Modeling and Simulation of Biological Phenomena (M.Sc Course)*

* *Process Optimization (M.Sc and Ph.D Course)*

* *Environmental Biotechnology (Ph.D Course)*

* *Specific Discussions (Ph.D Course)*

Number of completed industrial projects: *I performed 12 projects for different industries.*

Number of graduated students:

M.Sc Students: Supervisor: 30 and Advisor: 21

Ph.D Students: Supervisor: 7, Under supervision: 4 and Advisor: 17

Publications:

Books:

1- Author of book entitled: “*Bioleaching of solid waste*”, *Tarbiat Modares University Press, Tehran, 2019.*

2- “*Electronic waste recycling techniques*”, by Hugo Marcelo Veit and Andréa Moura Bernardes, translated, *Tehran University Press, Tehran, 2019.*

3- “*Biochemical Engineering*”, by Shigeo Katoh and Fumitaki Yushida, translated, *Tarbiat Modares University Press, 2012.*

4- “*Mass transfer from fundamentals to modern industrial applications*”, by Koichi Asano, translated, *Tarbiat Modares University Press, Tehran, 2011.*

5- “*Modeling in transport phenomena*” by Ismail Tousan, translated, *Sharif University publisher, Tehran, 2010.*

6- “General Microbiology and Biochemistry”, **Sanjesh publisher, Tehran, 2004.**

7- “Applied Mathematics in Chemical Engineering”, **Sanjesh publisher, Tehran, 2004.**

Book chapters:

1- N. Bahaloo-Horeh, F. Vakilchap, **S.M. Mousavi**, “*Bio-hydrometallurgical Methods for Recycling Spent Lithium-Ion Batteries*”, In: Liang An (Eds): Recycling of Spent Lithium-Ion Batteries, 978-3-030-31833-8, Chapter 7, 2019, Published by **Springer-Nature**.

2- M. Baniasadi, **S.M. Mousavi**, “*A Comprehensive Review on the Bioremediation of Oil Spills*”, In: Microbial Action on Hydrocarbons, Chapter 10, pp. 223-254, 2019, Published by **Springer (Singapore)**.

3- A. Jafari, **S.M. Mousavi**, H. Motesaffi, H. Roohian, H. Hamed Sangari, “*Simulation of Hydrodynamics and Mass Transfer in a Valve Tray Distillation Column Using Computational Fluid Dynamics Approach*”, In: Advanced Topics in Mass Transfer, Chapter 13, pp. 265-280, 2011, Published by **InTech Publisher (Croatia)**.

4- T. Amani, **S.M. Mousavi**, M. Nosrati, “*CFD Simulation of Syntrophic Anaerobic Digestion of Volatile Fatty Acids in a Continuous Stirred Reactor*”. In: Engineering Applications of Computational Fluid Dynamics, Chapter 11, pp. 403-435, 2011, Published by **International Energy and Environment Foundation**.

5- **S.M. Mousavi**, A. Jafari, S. Yaghmaei, M. Vossoughi, I. Turunen, “*Experimental Investigation and Simulation of Ferrous Biooxidation and Flow Hydrodynamics in a Bubble Column Bioreactor using CFD Approach*”, In: Current Themes in Engineering Technologies, Ao, Sio-Iong, Amouzegar, Mahyar A., Chen, Su-Shing (Eds.), Published by **American Institute of Physics (AIP)**, pp. 68-82, 2008.

6- **S.M. Mousavi**, “*Investigation of Single Phase Approximation and Mixture Model on Flow Behaviour and Heat Transfer of a Ferrofluid using CFD Simulation*”, In: Advances in Computational Algorithms and Data Analysis, Ao, Sio-Iong; Rieger, Burghard; Chen, Su-Shing (Eds.), Published by **Springer**, pp. 495-507, 2008.

National Patents:

1- M. Arshadi, **S.M. Mousavi**, “*Recovery of gold, copper and nickel from discarded mobile phone PCBs using Acidithiobacillus ferrooxidans and Bacillus megaterium*”, Registration No.: 85826, **2015**. Evaluated by: Iranian Research Organization for Science and Technology.

- 2- N. Bahaloo-Horeh, **S.M. Mousavi**, “*Bioleaching of metals from spent lithium-ion mobile phone batteries using adapted Aspergillus niger*”, Registration No.: 90241, **2016**. Evaluated by: Iranian Research Organization for Science and Technology.
- 3- H. Hosseini, M. Kokabi, **S.M. Mousavi**, “*Fabrication of nanofiber aerogel based on bacterial cellulose using supercritical method*”, Registration No.: 90163, **2017**. Evaluated by: Iranian Research Organization for Science and Technology.
- 4- H. Hosseini, M. Kokabi, **S.M. Mousavi**, “*Fabrication of conductive nanocomposite aerogel using supercritical method based on bacterial cellulose/reduced graphene oxide*”, Registration No.: 93843, **2018**. Evaluated by: Iranian Research Organization for Science and Technology.
- 5- H. Hosseini, M. Kokabi, **S.M. Mousavi**, “*Fabrication of smart nanocomposite aerogel using supercritical method based on bacterial cellulose/multiwall carbon nanotubes as bio-mechanical sensor*”, Registration No.: 93751, **2018**. Evaluated by: Iranian Research Organization for Science and Technology.
- 6- S.O. Rastegar, **S.M. Mousavi**, S.A. Shojaosadati, **2014**, “Bioleaching of Vanadium from Power Plants Residuals”.
- 7- M. Motaghd, **S.M. Mousavi**, S.A. Shojaosadati, S.O. Rastegar, **2014**, “Bioleaching of Platinum and Rhenium from Refinery Spent Catalyst using a Cyanogenic Bacterium”.
- 8- O. Ravanshad, **S.M. Mousavi**, S.A. Shojaosadati, **2014**, “A New Method for Hydrolysis of Microalgae”.
- 9- F. Rezvani, S. Hashemi-Najafabadi, **S.M. Mousavi**, S.A. Shojaosadati, S. Saharkhiz, **2012**, “Phenol Removal from Industrial Wastewater using Soybean Hulls in a Packed Bed Bioreactor”.

Journal Papers:

- 1- **S.M. Mousavi**, S. Yaghmaei, M. Vossoughi, A. Jafari, and S. A. Hoseini, **2005**, “Comparison of Bioleaching Ability of Two Native Mesophilic and Thermophilic Bacteria on Copper Recovery from Chalcopyrite Concentrate in an Airlift Bioreactor”, *Hydrometallurgy*, **80**, 1-2, pp 139-144. (Impact factor: 2.027)
- 2- **S.M. Mousavi**, A. Jafari, S. Yaghmaei, M. Vossoughi, and R. Roostaazad, **2006**, “Bioleaching of low-grade sphalerite using a column reactor”, *Hydrometallurgy*, **82**, 1-2, pp 75-82. (Impact factor: 2.027)

- 3- **S.M. Mousavi**, S. Yaghmaei , F. Salimi, and A. Jafari, **2006**, “*Influence of process variables on biooxidation of ferrous sulfate by an indigenous Acidithiobacillus ferrooxidans. Part I: Flask experiments*”, **Fuel**, **85**,17-18, pp 2555-2560. (Impact factor: 3.248)
- 4- **S.M. Mousavi**, A. Jafari, S. Yaghamei, M. Vossoughi and P. Sarkomaa, **2006**, “*Computer simulation of fluid motion in a porous bed using a volume of fluid method: Application in heap leaching*”, **Minerals Engineering**, **19**, 10, pp 1077-1083. (Impact factor: 1.352)
- 5- **S.M. Mousavi**, S. Yaghmaei, M. Vossoughi , A. Jafari, and R. Roostaazad, **2006**, “*Zinc Extraction from Iranian Low-Grade Complex Zinc-Lead Ore by Two Native Microorganisms: Acidithiobacillus ferrooxidans and Sulfolobus*”, **International Journal of Mineral Processing**, **80**, 2-4, pp 238-243. (Impact factor: 1.304)
- 6- **S.M. Mousavi**, M. Vossoughi, S. Yaghmaei, and A. Jafari, **2006**, “*Copper Recovery from Chalcopyrite Concentrate by an Indigenous Acidithiobacillus ferrooxidans in an Air-Lift Bioreactor*”, **Iranian Journal of Chemistry and Chemical Engineering**, **25**, 3, pp 21-26. (Impact factor: 0.25)
- 7- **S.M. Mousavi**, I. Alemzadeh, and M. Vossoughi, **2006**, “*Use of Modified Bentonite for Phenolic Adsorption in Treatment of Olive Oil Mill Wastewater*”, **Iranian Journal of Science and Technology**, **30**, B5, pp 613-619. (Impact factor: 0.375)
- 8- **A. Jafari**, **P. Zamankhan**, and **S.M. Mousavi**, **2006**, “*Computer simulation of flocs interactions: Application in fiber suspension*”, **Colloids and Surfaces A: Physicochemical and Engineering Aspects**, **292**, 2-3, pp 99-109. (Impact factor: 2.359)
- 9- A. Jafari, P. Zamankhan, **S.M. Mousavi**, and K. Henttinen, **2006**, “*Multiscale modeling of fluid turbulence and flocculation in fiber suspensions*”, **Journal of Applied Physics**,**100**,3. (DOI information: 10.1063/1.2218034)
- 10- S.A. Hosseini, S. Yaghmaei, **S.M. Mousavi**, and A. Jadidi, **2006**, “*Biodesulfurization of Dibenzothiophene by a Newly Isolated Thermophilic Bacteria Strain*”, **Iranian Journal of Chemistry and Chemical Engineering**, **25**, 3, pp 65-71. (Impact factor: 0.25)
- 11- **S.M. Mousavi**, S. Yaghmaei, M. Vossoughi, A. Jafari, R. Roostaazad, and I. Turunen, **2007**, “*Bacterial leaching of low-grade ZnS concentrate using indigenous mesophilic and thermophilic strains*”, **Hydrometallurgy**, **85**, 1, pp 59-65. (Impact factor: 2.027)
- 12- **S.M. Mousavi**, S. Yaghmaei, and A. Jafari, **2007**, “*Influence of process variables on biooxidation of ferrous sulfate by an indigenous Acidithiobacillus ferrooxidans. Part II: Bioreactor experiments*”, **Fuel**, **86**,7-8, pp 993-999. (Impact factor: 3.248)

- 13- **S.M. Mousavi**, S. Yaghmaei, M. Vossoughi, and A. Jafari, **2007**, “Efficiency of copper bioleaching of two mesophilic and thermophilic bacteria isolated from chalcopyrite concentrate of Kerman -Yazd regions in Iran”, *Scientia Iranica*, **14**, **2**, pp 180-184. (Impact factor: 0.242)
- 14- **S.M. Mousavi**, S. Yaghmaei, A. Jafari, M Vossoughi, and Z. Ghobadi, **2007**, “Optimization of ferrous biooxidation rate in a packed bed bioreactor using Taguchi approach”, *Chemical Engineering & Processing: Process Intensification*, **46**, **10**, pp 935-940. (Impact factor: 1.924)
- 15- **S.M. Mousavi**, P. Zamankhan, and A. Jafari, **2008**, “Computer simulations of sodium formate solution in a mixing tank”, *Communications in Nonlinear Science and Numerical Simulation*, **13**, **2**, pp 380-399. (Impact factor: 2.806)
- 16- **S.M. Mousavi**, S. Yaghmaei, M. Vossoughi, R. Roostaazad, A. Jafari, M. Ebrahimi, O. Habibollahnia Chabok, and I. Turunen, **2008**, “The effects of Fe (II) and Fe (III) concentration and initial pH on microbial leaching of low-grade sphalerite ore in a column reactor”, *Bioresource Technology*, **99**, pp 2840-2845. (Impact factor: 4.98)
- 17- A. Jafari, **S.M. Mousavi**, and P. Kolari, **2008**, “Numerical investigation of blood flow. Part I: In microvessel bifurcations”, *Communications in Nonlinear Science and Numerical Simulation*, **13**, pp 1615-1626. (Impact factor: 2.806)
- 18- **S.M. Mousavi**, A. Jafari, S. Yaghmaei, M. Vossoughi, and I. Turunen, **2008**, “Experiments and CFD simulation of ferrous biooxidation in a bubble column bioreactor”, *Computers & Chemical Engineering*, **32**, pp 1681-1688. (Impact factor: 2.404)
- 19- A. Jafari, T. Tynjala, **S.M. Mousavi**, P. Sarkomaa, **2008**, “CFD simulation and evaluation of controllable parameters effect on thermomagnetic convection in ferrofluids using Taguchi technique” *Computers & Fluids*, **37**, pp 1344-1353. (Impact factor: 1.810)
- 20- A. Jafari, T. Tynjala, **S.M. Mousavi**, P. Sarkomaa, **2008**, “Simulation of heat transfer in a ferrofluid using computational fluid dynamics technique” *International Journal of Heat and Fluid Flow*, **29**, pp 1197-1202. (Impact factor: 1.927)
- 21- A. Jafari, **S.M. Mousavi**, and P. Kolari, **2009**, “Numerical investigation of blood flow. Part II: In capillaries”, *Communications in Nonlinear Science and Numerical Simulation*, **14**, pp 1396-1402. (Impact factor: 2.806)
- 22- A. Jafari, **S.M. Mousavi**, K. Pietarinen and P. Sarkomaa, **2008**, “Modeling and CFD simulation of flow behavior and dispersivity through randomly packed bed reactors”, *Chemical Engineering Journal*, **144**, pp 476-482. (Impact factor: 3.681)
- 23- R. Dehghan, M. Noaparast, M. Kolahdoozan, **S.M. Mousavi**, **2008**, “Statistical evaluation and optimization of factors affecting the leaching performance of a sphalerite concentrate”, *International Journal of Mineral Processing*, **89**, pp 9-16. (Impact factor: 1.304)

- 24- **S.M. Mousavi**, A. Jafari, S. Chegini, and I. Turunen, **2009**, “*CFD simulation of mass transfer and flow behaviour around a single particle in bioleaching process*”, **Process Biochemistry**, **44**, 696-703.. (Impact factor: 2.627)
- 25- M. Soleimani , S. Hosseini, R.Roostaazad , J. Petersen, **S.M. Mousavi**, A. Kazemi Vasiri, **2009**, “*Microbial leaching of a low-grade sphalerite ore using a draft tube fluidized bed bioreactor*”, **Hydrometallurgy**, **99**(3-4), pp 131-136. (Impact factor: 2.027)
- 26- B. Ebrahimi, S.A. Shojaosadati, S.O. Raanaie, **S.M. Mousavi**, **2010**, “*Optimization and evaluation of acetylcholine esterase immobilization using response surface methodology*”, **Process Biochemistry**, **45**(1), pp 81-87. (Impact factor: 2.627)
- 27- J. V. Mehrabani, M. Noaparast, **S.M. Mousavi**, R. Dehghan, **2010**, “*Process optimization and modelling of sphalerite flotation from a low grade Zn-Pb ore using response surface methodology*”, **Separation and Purification Technology**, **72**, 242-249. (Impact factor: 2.921)
- 28- J. V. Mehrabani, M. Noaparast, **S.M. Mousavi**, R. Dehghan, E. Rasooli, H. Hajizadeh, **2010**, “*Depression of pyrite in the flotation of high pyrite low grade lead-zinc ore using Acidithiobacillus ferrooxidans*”, **Minerals Engineering**, **23**(1), pp 10-16. (Impact factor: 1.352)
- 29- 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 acetylcholine esterase as a biosensor*”, **Biotechnology and Bioprocess Engineering**, **15**, pp383-391. (Impact factor: 1.278)
- 30- B. Ebrahimi, S.A. Shojaosadati, **S.M. Mousavi**, **2010**, “*A new changeable bioreactor for organophosphate detection in a flow-through system*”, **8**(3), pp138-145, **Iranian Journal of Biotechnology**.
- 31- M. Hashemi, S.H. Razavi, S.A. Shojaosadati, **S.M. Mousavi**, K. Khajeh, and M. Safari, **2010**, “*Development of a solid-state fermentation process for production of an alpha amylase with potentially interesting properties*”, **110**(3), 333–337, **Journal of Bioscience and Bioengineering**. (Impact factor: 1.793)
- 32- **S.M. Mousavi**, S.A. Shojaosadati, J. Golestani, F. Yazdian, **2010**, “*CFD simulation and optimization of effective parameters for the biomass production in a propeller loop bioreactor using Taguchi method*” **49**, 1249–1258, **Chemical Engineering & Processing: Process Intensification**. (Impact factor: 1.924)
- 33- F. Amiri, S. Yaghmaei, **S.M. Mousavi**, **2010**, “*Comparison of different methods in bioleaching of tungsten rich spent hydro-cracking catalyst using adapted Penicillium*

simplicissimum BBRC-20019” **Chemical Engineering Transactions**, Volume 21, Editor J. J. Klemeš, H. L. Lam, P. S. Varbanov.

34- S.O. Rastegar, **S.M. Mousavi**, S.A. Shojaosadati, S. Sheibani, 2011, “*Optimization of petroleum refinery effluent treatment in a UASB reactor using response surface methodology*”, 197, 26–32, **Journal of Hazardous Materials**. (Impact factor: 4.553)

35- M. Hashemi, **S.M. Mousavi**, S.H. Razavi, S.A. Shojaosadati, 2011, “*Mathematical modeling of biomass and alpha-amylase production kinetics by Bacillus sp. in solid-state fermentation based on solid dry weight variation*” 53, 159–164, **Biochemical Engineering Journal**. (Impact factor: 2.769)

36- F. Amiri, S. Yaghmaei, **S.M. Mousavi**, 2011, “*Bioleaching of tungsten-rich spent hydrocracking catalyst using Penicillium simplicissimum*”, 102, 1567–1573, **Bioresource Technology**. (Impact factor: 4.98)

37- T. Amani, M. Nosrati, **S.M. Mousavi**, 2011, “*Using enriched cultures for elevation of anaerobic syntrophic interactions between acetogens and methanogens in a high-load continuous digester*”, 102, 3716–3723, **Bioresource Technology**. (Impact factor: 4.98)

38- T. Amani, M. Nosrati, **S.M. Mousavi**, R.K. Kermanshahi, 2011, “*Modeling and statistical optimization of mesophilic anaerobic digestion of volatile fatty acids using enriched cultures*”, 8(1), 83-96, **International Journal of Environmental Science and Technology**. (Impact factor: 3.051)

39- R. Mafi Gholami, S.M. Borghei, **S.M. Mousavi**, 2011, “*Bacterial leaching of a spent Mo–Co–Ni refinery catalyst using Acidithiobacillus ferrooxidans and Acidithiobacillus thiooxidans*”, **Hydrometallurgy**, 106, 26-31. (Impact factor: 2.027)

40- M. Soleimani, J. Petersen, R. Roostaazad, S. Hosseini, **S.M. Mousavi**, A. Najafi, A. Kazemi Vasiri, 2011, “*Leaching of a zinc ore and concentrate using the Geocoat™ technology*”, **Minerals Engineering**, 24, 64–69. (Impact factor: 1.352)

41- 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, 165-172. (Impact factor: 2.756)

42- 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. (Impact factor: 4.144)

43- M. Hashemi, S.A. Shojaosadati, S.H. Razavi, **S.M. Mousavi**, 2011, “*Evaluation of Ca-independent α -amylase production by Bacillus sp. KR-8104 in submerged and solid state fermentation systems*”, 9(3), pp188-196, **Iranian Journal of Biotechnology**.

- 44- J. V.Mehrabani, **S.M. Mousavi**, M. Noaparast, **2011**, “*Evaluation of the replacement of NaCN with Acidithiobacillus ferrooxidans in the flotation of high-pyrite, low-grade lead-zinc ore*”, **80**, 202-208, **Separation and Purification Technology**. (Impact factor: 2.921)
- 45- F. Amiri, **S.M. Mousavi**, S. Yaghmaei, **2011**, “*Enhancement of bioleaching of a spent Ni/Mo hydroprocessing catalyst by Penicillium simplicissimum*”, **80**, 566-576, **Separation and Purification Technology**. (Impact factor: 2.921)
- 46- F. Amiri, S. Yaghmaei, **S.M. Mousavi**, S. Sheibani, **2011**, “*Recovery of metals from spent refinery hydrocracking catalyst using adapted Aspergillus niger*”, **109**, 65-71, **Hydrometallurgy**. (Impact factor: 2.027)
- 47- T. Tavassoli, **S.M. Mousavi**, S.A. Shojaosadati, H. Salehizadeh, **2012**, “*Asphaltene biodegradation using microorganisms isolated from oil samples*”, **93**, 142-148, **Fuel**. (Impact factor: 3.248)
- 48- R. Mafi Gholami, **S.M. Mousavi**, S.M. Borghei, **2012**, “*Process optimization and modeling of heavy metals extraction from a molybdenum rich spent catalyst by Aspergillus niger using response surface methodology*”, **18**, 218-224, **Journal of Industrial and Engineering Chemistry**. (Impact factor: 1.977)
- 49- T. Amani, M. Nosrati, **S.M. Mousavi**, **2012**, “*Response surface methodology analysis of anaerobic syntrophic degradation of volatile fatty acids in an upflow anaerobic sludge bed reactor inoculated with enriched cultures*”, **17**, 133-144, **Biotechnology and Bioprocess Engineering**. (Impact factor: 1.278)
- 50- M. Hashemi, S.A. Shojaosadati, S.H. Razavi, **S.M. Mousavi**, K. Khajeh, M. Safari, **2012**, “*The efficiency of temperature-shift strategy to improve the production of alpha amylase by Bacillus sp. in a solid state fermentation system*”, **5**, 1093-1099, **Food and Bioprocess Technology: An International Journal**. (Impact factor: 3.703)
- 51- H. Motesghafi, **S.M. Mousavi**, S.A. Shojaosadati, **2012**, “*The possible mechanisms involved in nanoparticles biosynthesis*”, **18**, 2046-2050, **Journal of Industrial and Engineering Chemistry**. (Impact factor: 1.977)
- 52- F. Amiri, **S.M. Mousavi**, S. Yaghmaei, M. Barati, **2012**, “*Bioleaching kinetics of a spent refinery catalyst using Aspergillus niger at optimal condition*” **Biochemical Engineering Journal**, **67**, 208–217. (Impact factor: 2.769)
- 53- D. Mazaheri, S.A. Shojaosadati, **S.M. Mousavi**, P. Hejazi, S. Saharkhiz, **2012**, “*Bioethanol production from carob pods by solid-state fermentation with Zymomonas mobilis*”, **Applied Energy**, **99**, 372–378. (Impact factor: 5.106)

- 54- T. Amani, M. Nosrati, **S.M. Mousavi**, 2012, “*Analysis of the Syntrophic Anaerobic Digestion of Volatile Fatty Acids Using Enriched Cultures in a Fixed-Bed Reactor*”, ***Water Environment Research***, **84**, 460-472. (Impact factor: 0.883)
- 55- F. Rezvani, S. Hashemi-Najafabadi, **S.M. Mousavi**, S.A. Shojaosadati, S. Saharkhiz, 2012, “*Optimization of the removal of phenol by soybean seedcoats using response surface methodology*”, ***Water Science and Technology***, **66**, 2229-2236. (Impact factor: 1.122)
- 56- 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*”, **43**, 661–667, ***Industrial Crops and Products***. (Impact factor: 2.468).
- 57- I. Asghari, **S.M. Mousavi**, F. Amiri, S. Tavassoli, 2013, “*Bioleaching of spent refinery catalysts: A review*”, **19**, 1069-1081, ***Journal of Industrial and Engineering Chemistry***. (Impact factor: 2.145)
- 58- E. Amini, M.R. Mehrnia, **S.M. Mousavi**, N. Mostoufi, 2013, “*Experimental Study and Computational Fluid Dynamics Simulation of a Full-Scale Membrane Bioreactor for Municipal Wastewater Treatment Application*”, **52**, 9930-9939, ***Industrial and Engineering Chemistry Research***. (Impact factor: 2.206).
- 59- F. Gerayeli, F. Ghosvandi, **S.M. Mousavi**, S. Yaghmaei, F. Amiri, 2013, “*Screening and optimization of effective parameters in biological extraction of heavy metals from refinery spent catalysts using a thermophilic bacterium*”, **118**, 151-161, ***Separation and Purification Technology***. (Impact factor: 2.894).
- 60- F. Hoobakht, F. Ganji, E. Vasheghani-Farahani, **S.M. Mousavi**, 2013, “*Eudragit RS PO nanoparticles for sustained release of pyridostigmine bromide*”, **15:1912**, ***Journal of Nanoparticle Research***. (Impact factor: 2.175).
- 61- S.E. Hashemi, A. Rezaee, M.R. Nikodel, H. Ganjidost, **S.M. Mousavi**, 2013, “*Equilibrium and kinetic studies of the adsorption of sodium dodecyl sulfate from aqueous solution using bone char*”, **109**, 433–446, ***Reaction Kinetics and Mechanisms and Catalysis***. (Impact factor: 1.104).
- 62- M. Motaghd, **S.M. Mousavi**, S.O. Rastegar, S.A. Shojaosadati, 2014, “*Platinum and rhenium extraction from a spent refinery catalyst using Bacillus megaterium as a cyanogenic bacterium: Statistical modeling and process optimization*”, **171**, 401-409, ***Bioresource Technology***. (Impact factor: 5.06).
- 63- M. Arshadi, **S.M. Mousavi**, 2014, “*Simultaneous recovery of Ni and Cu from computer-printed circuit boards using bioleaching: Statistical evaluation and optimization*”, **174**, 233-242, ***Bioresource Technology***. (Impact factor: 5.06).

- 64- S.O. Rastegar, **S.M. Mousavi**, S.A. Shojaosadati, **2014**, “Cr and Ni recovery during bioleaching of dewatered metal-plating sludge using *Acidithiobacillus ferrooxidans*”, **167**, **61-68**, *Bioresource Technology*. (Impact factor: **5.06**).
- 65- N. Nasirpour, **S.M. Mousavi**, S.A. Shojaosadati, **2014**, “A novel surfactant-assisted ionic liquid pretreatment of sugarcane bagasse for enhanced enzymatic hydrolysis”, **169**, **33-37**, *Bioresource Technology*. (Impact factor: **5.06**).
- 66- M. Ijadi Bajestani, **S.M. Mousavi**, S.A. Shojaosadati, **2014**, “Bioleaching of heavy metals from spent household batteries using *Acidithiobacillus ferrooxidans*: Statistical evaluation and optimization”, **132**, **309-316**, *Separation and Purification Technology*. (Impact factor: **3.065**).
- 67- M. Shahrabi-Farahani, S. Yaghmaei, **S.M. Mousavi**, F. Amiri, **2014**, “Bioleaching of heavy metals from a petroleum spent catalyst using *Acidithiobacillus thiooxidans* in a slurry bubble column bioreactor”, **132**, **41-49**, *Separation and Purification Technology*. (Impact factor: **3.065**).
- 68- I. Asghari, **S.M. Mousavi**, **2014**, “Effects of key parameters in recycling of metals from petroleum refinery waste catalysts in bioleaching process”, **13**, **139-161**, *Reviews in Environmental Science and Bio/Technology*. (Impact factor: **2.263**).
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Selected papers in national conferences:

- 1- **S.M. Mousavi**, S. Yaghmaei, M. Vossoughi, A. Jafari, and M.S. Jafari, “*Copper Recovery from Chalcopyrite Concentrate by Indigenous Mesophilic and Thermophilic Bacteria*”, **10th Iranian Chemical engineering congress**, November 23-25, 2005, Zahedan, Iran.
- 2- **S.M. Mousavi**, S. Yaghmaie, and S.A. Hosseini, “*Biohydrometalurgy: Best selection in economic and technology*”, **9th Iranian Chemical engineering congress**, November 23-25, 2004, Tehran, Iran.
- 3- S.A. Hosseini, S. Yaghmaie, **S.M. Mousavi**, and A. Jadidi, "*Isolation of a New Indigenous Thermophilic Strain and Investigation of Its Ability toward Biodesulfurization* ", **9th Iranian Chemical engineering congress**, November 23-25, 2004 (Opted as one the best papers in congress by the congress jury), Tehran, Iran.
- 4- **S.M. Mousavi**, I. Alemzadeh, and M. Vossoughi, “*Modification of Mineral Clays with Quaternary Ammonium Compounds as Adsorbent of Phenol and Phenolic Compounds from Olive Mill Wastewater*”, **13th National Congress on Food Industries**, October 24-25, 2002, Tehran, Iran.
- 5- A. Kaffash, S. Yaghmaei, **S.M. Mousavi**, “*Computational Fluid Dynamics Simulation of Bioleaching Process in a Bubble Column Reactor for Spent Catalysts Metals*”, **The 15th Iranian National Congress of Chemical Engineering (IChEC)**, February 17-19, 2015, Tehran, Iran.
- 6- A. Haghtalab, J. Yousefi Seyf, **S.M. Mousavi**, “*Vapor Liquid Equilibrium Calculation for Binary Mixtures Using Molecular Dynamics Simulation*”, **The 15th Iranian National Congress of Chemical Engineering (IChEC)**, February 17-19, 2015, Tehran, Iran.
- 7- M.J. Jowkar, **S.M. Mousavi**, “*A biological approach for Indium extraction from discarded liquid crystal displays (LCDs)*”, **Conferences on Chemical & Materials Engineering**, June 2, 2016, Tehran, Iran.

Selected papers in international conferences:

- 1- **S.M. Mousavi**, I. Alemzadeh, and M. Vossoughi, “*Modification of Mineral Clays by Hexadecyltrimethyl Ammonium as Adsorbent of Fatty acids and Resin acids from Wasrewwater*”, **5th International Conference and Exhibition on CHEMISTRY IN INDUSTRY**, October 14-16, 2002, Bahrain.
- 2- **S.M. Mousavi**, M. Vossoughi, and S. Yaghmaie, "*Modeling of Copper Recovery from Sulfide Minerals by Native Thiobacillus ferrooxidans in a Fluidized Bed Bioreactor*", **International Biohydrometallurgy Symposium conference**, September 25-29, 2005, Cape Town, South Africa.
- 3- **S.M. Mousavi**, M. Vossoughi, and S. Yaghmaei, "*Copper Recovery from Chalcopyrite Concentrate by an Indigenous Acidithiobacillus ferrooxidans with an Airlift Bioreactor*", **Bio and Hydromet '05 Conference**, May 14-16, 2005, Cape Town, South Africa.

- 4- **S.M. Mousavi**, P. Zamankhan, S. Yaghmaei, A. Jafari, and A. Jarrahan, “Detailed Modeling of Heap Type Reactors Used in Metal Extraction Processes” **Computational Modelling in Mineral Processing Conference**, November 7-9, 2005, Cape Town, South Africa.
- 5- **S.M. Mousavi**, S. Yaghmaei, M. Vossoughi, and A. Jafari, “Comparison of Bioleaching Ability of Two Native Mesophilic and Thermophilic Bacteria on Copper Recovery from Chalcopyrite Concentration: in Airlift Bioreactor and Shake Flask” 10th Mediterranean Congress of Chemical Engineering, November 15-18, 2005, Barcelona, Spain.
- 6- **A. Jafari**, **P. Zamankhan**, **S.M. Mousavi**, and **P. Kolari** “*Modeling of Blood Flow in Microvessels*” **EMBEC'05-THE 3rd EUROPEAN MEDICAL AND BIOLOGY ENGINEERING CONFERENCE**, November 20-25, 2005, Prague, Czech Republic.
- 7- A. Jafari, **S.M. Mousavi**, P. Kolari, and P. Zamankhan, “*Simulation of Blood Flow through a Microvessel Branching*” **The Fourth IASTED International Conference on BIOMEDICAL ENGINEERING ~BioMED 2006~** (pp. 31-38), February 15-17, 2006, Innsbruck, Austria.
- 8- **S.M. Mousavi** and P. Zamankhan, “*LARGE EDDY SIMULATIONS OF A BRINE-MIXING TANK*”, **25th International Conference on Offshore Mechanics and Arctic Engineering (OMAE 2006, paper number: 92082)**, June 4-9, 2006, Hamburg, Germany.
- 9- A. Jafari, P. Zamankhan, **S.M. Mousavi**, K. Pietarinen, and P. Sarkomaa, “*Investigation of Flow Dynamics in Porous Media using Computer Simulation*”, **20th annual European Simulation and Modeling Conference (ESM'2006, paper code: FLUID-03, pp. 157-163)**, October 23-25, 2006 - LAAS, Toulouse, France.
- 10- **S.M. Mousavi**, A. Jafari, S. Yaghmaei, M. Vossoughi, I. Turunen, M.R. Kamali, and P. Sarkomaa, “*CFD Simulation of concentration profiles and velocity field. Application: in bioleaching process*”, **17th European Symposium on Computer Aided Process Engineering (ESCAPE17, paper code: T4-458)**, May 27-30, 2007, Bucharest, Romania.
- 11- A. Jafari, T. Tynjälä, **S.M. Mousavi**, and P. Sarkomaa, “*CFD Simulation of heat transfer in ferrofluids*”, **European Congress of Chemical Engineering -6 (ECCE-6)**, September 16-21, 2007, Copenhagen, Denmark.
- 12- H. Yousefi, **S.M. Mousavi**, A. Jafari, A. Soleymani, “*Prediction of biological ferrous oxidation rate using artificial neural network*”, **North-American Simulation Technology Conference (NASTEC'08)**, August 13-15, 2008, Montreal (Quebec), Canada.
- 13- A. Jafari, **S.M. Mousavi**, T. Tynjala, P. Sarkomaa, “*CFD Simulation of Gravitational Sedimentation and Clustering Effects on Heat Transfer of a Nano-ferrofluid*”, **Progress in Electromagnetics Research Symposium (PIERS 2009)**, March 23–27, 2009, Beijing, China.

- 14- O. Ravanshad, N. Nasirpour, **S.M. Mousavi**, S.A. Shojaosadati, “*Investigation of Microalgae Hydrolysis for Bioethanol Production*”, **The 8th International Chemical Engineering Congress & Exhibition (IChEC)**, February 24-27, 2014, Kish, Iran.
- 15- N. Nasirpour, **S.M. Mousavi**, S.A. Shojaosadati, O. Ravanshad, “*A Novel Surfactant-assisted Ionic Liquid Pretreatment of Sugarcane Bagasse for Enhanced Enzymatic Hydrolysis*”, **The 8th International Chemical Engineering Congress & Exhibition (IChEC)**, February 24-27, 2014, Kish, Iran.
- 16- M. Ijadi, **S.M. Mousavi**, S.A. Shojaosadati, “*Bioleaching of Heavy Metals from Spent Household Batteries*”, **The 8th International Chemical Engineering Congress & Exhibition (IChEC)**, February 24-27, 2014, Kish, Iran.
- 17- M. R. Samadzadeh Yazdi, M. Abdollahy, **S.M. Mousavi**, A. khodadadi, “*Adaptation of acidophilic thermophile Acidianus brierleyi with chalcopyrite concentrate for copper recovery via bioleaching*”, **The 8th International Chemical Engineering Congress & Exhibition (IChEC)**, February 24-27, 2014, Kish, Iran.
- 18- S. M. Soleymani, A. R. Majdi Nasab, M. Nosrati, **S. M. Mousavi**, “*Investigation of Biological Nutrient Removal Performance in a Modified Step Feed Process*”, **The 8th International Chemical Engineering Congress & Exhibition (IChEC)**, February 24-27, 2014, Kish, Iran.
- 19- P. Rasoulnia, **S.M. Mousavi**, “*A comparison between spent-medium bioleaching and chemical leaching of V and Ni from an oil-fired ash produced in power plant furnaces*”, **The 9th International Chemical Engineering Congress & Exhibition (IChEC)**, December 26-28, 2015, Shiraz, Iran.
- 20- N. Bahaloo Horeh, S.M. Mousavi, S. A. Shojaosadati, F. Vakilchap, “*Bioleaching of spent mobile phone batteries using adapted Aspergillus niger*”, **The 9th International Chemical Engineering Congress & Exhibition (IChEC)**, December 26-28, 2015, Shiraz, Iran.
- 21- F. Vakilchap, S.M. Mousavi, S. A. Shojaosadati, N. Bahaloo Horeh, “*Bioleaching process for recovery of valuable elements from red mud by Aspergillus niger*”, **The 9th International Chemical Engineering Congress & Exhibition (IChEC)**, December 26-28, 2015, Shiraz, Iran.
- 22- H. Qavam Saeedi, A. Pirouzi, M. Nosrati, **S.M. Mousavi**, “*A liquid velocity correlation for a triangular external airlift photo bioreactor with counter-current flow and doubled aeration from the down comer in addition to riser*”, **The 9th International Chemical Engineering Congress & Exhibition (IChEC)**, December 26-28, 2015, Shiraz, Iran.
- 23- P. Rasoulnia, **S.M. Mousavi**, “*Bioleaching of Precious Metals from an Oil-Fired Ash Using Organic Acids Produced by Aspergillus niger in Shake Flasks and Bioreactor*”, **International Journal of Chemical Engineering and Applications**, August 14-16, 2016, Porto- Portugal.

24- H. Hosseini, M. Kokabi, **S.M. Mousavi**, “*Bacterial Cellulose Nanofibers Aerogel Dried by Supercritical CO₂*”, **Proceedings of the 6th International Conference on Nanostructures (ICNS6)**, March 7-10, 2016, Kish Island, Iran.

Awards

- * Scholarship from the Ministry of Science, Research and Technology, Tehran, Iran (2003-2007)
- * Research grant from Academy of Finland, Helsinki, Finland (2005-2006)
- * Scholarship from the Centre for International Mobility (CIMO), Helsinki, Finland (2006)
- * Academic Scholarship, Lappeenranta University of Technology, Lappeenranta, Finland (2006-2007)
- * Research grant from Academy of Finland, Helsinki, Finland (2007)

Membership associations:

- * Member of Iranian chemical engineering association
- * Member of Iranian food engineering association
- * Member of Iranian nanotechnology association

Reviewer of the following journals:

- *Applied Microbiology and Biotechnology*
- *Biochemical Engineering Journal*
- *Bioresource Technology*
- *Biotechnology Progress*
- *Chemical Engineering Journal*
- *Chemical Engineering & Processing: Process Intensification*
- *Critical Reviews in Biotechnology*
- *Fuel*
- *Hydrometallurgy*

- *Iranian Journal of Biotechnology*
- *Iranian Journal of Chemical Engineering*
- *Iranian Journal of Chemistry & Chemical Engineering*
- *Iranian Journal of Polymer Science and Technology*
- *Iranian Journal of water & wastewater*
- *Journal of Industrial and Engineering Chemistry*
- *Journal of Hazardous Materials*
- *Process Biochemistry*
- *Resources, Conservation and Recycling*
- *Separation and Purification Technology*
- *Waste Management*
- ...