Behshahr, Iran



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Education ..

M.Sc. in chemical Engineering, Sahand University of Technology

Sept 2013-Sept 2015

GPA: (3.34 / 4.0)

Thesis: Investigation of ZrO₂ Addition on CuO/ZnO/Al₂O₃ Nanocatalyst Performance Used in Steam

Reforming of Methanol

Supervisor: Professor Mohammad Haghighi

B.Sc. Chemical Engineering, University of Mohaghegh Ardabili(UMA)

Sept 2006 - Sept2010

GPA: (2.43 / 4.0)

Thesis: Investigation of Types of Water Hardness and its Impact on Industrial Facilities

Supervisor: Professor Mariana Moshashaie

Research Interest

Heterogeneous Catalysis

Environmental Engineering

Hydrogen Production

Academic Experience

• Research Assistant, University of Science and Technology of Mazandaran

2017 - Present

Manage Research Team, Extensive Experience in Laboratory Skills, Leading Scientific Projects

• Teaching Assistant, University of Science and Technology of Mazandaran

2017 - Present

Chemistry Laboratory,
Mass and Energy Balance
Introduction to chemical Engineering
Heat Transfer

• Research Assistant, Catalysis Research Center, Sahand University of Technology

2013 - 2015

Conducting Research in heterogeneous Catalysis

• Teaching Assistant, University of Mohaghegh Adrabili

2009

Physics Laboratory

Job Experience ...

Production Manager DANAREF Company,

2017-present

Conducting Research in heterogeneous Catalysis

Health and Safety Expert, Pouya Pakhsh Company (food and cosmetic distribution)

2015-2017

Monitoring the quality control of food, public health

Publications

- Ajamein, H., & <u>Ahmadi, F</u>. (in preparation). Heterogeneous catalysis for water treatment: Carbon-based catalysts for heavy metals removal.
- <u>Ahmadi, F.</u>, Haghighi, M., & Ajamein, H. (in preparation). Preparation of CuO/ZnO/ZrO₂/Al₂O₃ nanocatalyst for steam methanol reforming process [Patent].
- Ahmadi, F., Haghighi, M., & Ajamein, H. (2016). Sonochemically assisted co-precipitation synthesis of CuO/ZnO/ZrO₂/Al₂O₃ nanocatalyst for fuel cell grade hydrogen production via steam methanol reforming. Journal of Molecular Catalysis A: Chemical, 417, 145–158. https://doi.org/10.1016/j.molcata.2016.05.027

- Motevallian Seyyedi, A., Haghighi, M., & <u>Ahmadi, F</u>. (2016, March). Improving the performance of atmospheric hydrogen production by hydrocracking process on CZA modified nanocatalyst using various surface activators. *1st National Conference on Refining Processes*, Tabriz, Iran.
- Ahmadi, F., Haghighi, M., & Ajamein, H. (2015, September). Influence of ultrasound power on physicochemical properties and catalytic performance of CuO/ZnO/ZrO₂/Al₂O₃ nanocatalyst used in hydrogen production via methanol reforming. 3rd Hydrogen & Fuel Cell Conference (HFCC3), Iranian Research Organization for Science & Technology (IROST), Tehran, Iran. https://civilica.com/doc/595431
- <u>Ahmadi, F.</u>, Haghighi, M., & Ajamein, H. (2015, July). Application of sonochemical synthesis of CuO/ZnO/ZrO₂/Al₂O₃
 nanocatalyst for hydrogen production by the steam methanol reforming process. Iranian Inorganic Chemistry Conference,
 Azarbaijan Shahid Madani University, Iran.
- Ahmadi, F., Haghighi, M., & Ajamein, H. (2015, July). Co-precipitation synthesis of ZrO_2 -doped $CuO/ZnO/Al_2O_3$ nanocatalyst used in steam reforming of methanol. Iranian Inorganic Chemistry Conference, Azarbaijan Shahid Madani University, Iran.
- <u>Ahmadi, F.</u>, Haghighi, M., & Ajamein, H. (2015, September). Influence of ultrasound power on physicochemical properties and catalytic performance of CuO/ZnO/ZrO₂/Al₂O₃ nanocatalyst used in hydrogen production via methanol reforming. 3rd Hydrogen & Fuel Cell Conference (HFCC3), Iranian Research Organization for Science & Technology (IROST), Tehran, Iran. https://civilica.com/doc/595431

	Test scores	
IELTS (Academic): 6.5 (Overall score) Listening: 7.5, Writing: 6.0, Speaking: 7.0, Reading: 6.0 Test date: Aug 2		
	Skills	
Software	Aspen HYSYS	
Lab Instrument Skills	Material characterization XPS, XRD, EDX, SEM, BET, FTIR, Gas Cl	hromatography
Editor	Microsoft Office - OneNote	
	Awards and Honors	
Received a full tuition waiver from Sahand University of Technology		2013
Received a full tuition waiver from University of Mohaghegh Ardabili.		2006
	Workshop & Congress	
Patents Registration, Sahand University of Technology		2014
Electronic Resources and Databases, Sahand University of Technology		2013
HYSYS Software, University of Mohaghegh Ardabili		2007
	Certification	
Introduction to Nanotechnolo	gy, Sahand University of technology, Tabriz, Iran	2015
Commercialization of Nanotechnology in the Field of Medicine. Sahand University of Technology		y 2015
Safety of Working with Chemi	cals, Sahand University of Technology	2014
	Poforoncos	

- References
- Prof. Mohammad Haghighi ,Founder and director of reactor and catalyst research center(RCRC), faculty of chemical engineering, Sahand University of Technology, Tabriz, Iran
 Email: haghighi@sut.ac.ir, mhaghighip@yahoo.com
- Amir Heydari, Associate Professor, Chemical Engineering Group, Faculty of Engineering, University of Mohaghegh Ardabili, Ardabil Iran ,Email: Heydari@uma.ac.ir
- Javad Rahbar Shahrouzi ,Associate Professor, Chemical Engineering Group, faculty of chemical engineering, Sahand University of Technology, Tabriz, Iran, Email: shahrouzi@sut.ac.ir