



ROYA HAMIDI

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● WORK EXPERIENCE

01/09/2020 – 31/12/2023 Rome, Italy

RESEARCH ASSISTANT SAPIENZA UNIVERSITY OF ROME

- Production of bio-oil from biomass using hydrodynamic cavitation technology
- Synthesis of highly crystalline Y zeolite from rice husk waste
- Synthesis of biochar as an adsorbent for furfural removal
- Bio oil production from bio-mass like oak-wood and lignin
- Hydro upgrading of bio oil with in-situ hydrogen production over synthesized catalyst
- Plastic upgrading into value-added products

01/09/2016 – 30/08/2020 Tehran, Iran

RESEARCH ASSISTANT TARBIAT MODARES OF TECHNOLOGY

- Successful synthesis of highly crystalline Y zeolite from cheap mineral bentonite
- Design and modification of catalysts with advanced methods
- Hydro desulfurization and hydrocracking of heavy oil to clean and lighter hydrocarbon

01/02/2011 – 30/06/2013 Lahijan, Iran

UNIVERSITY LECTURER OF CHEMICAL ENGINEERING ISLAMIC AZAD UNIVERSITY OF LAHIJAN

- Heat Transfer II
- Chemical Reaction Engineering
- Basic Principles and Calculations in Chemical Engineering
- Chemistry

01/06/2012 – 30/09/2016 Rasht, Iran

QUALITY CONTROL MANAGER NATURAL MINERAL WATER PLANT

- Conducted product tests including microbiology and chemical to ensure meet quality standards
- Identified products defects and made important repairs
- Supervised staff and gave feedback to the production team
- Investigation of clients' invited feedback regarding produced products with the aim of adopting better policies and development by finding new prospects
- Prepared weekly and monthly reports for upper manager

01/04/2020 – 30/11/2021 Tehran, Iran

CHEMICAL ENGINEER IRAN ENGINEERING INSPECTION CO

- Inspection of importing and exporting products
- Technical inspection of industrial machinery and equipment
- Inspection of materials and products of manufacturing and industrial units

● EDUCATION AND TRAINING

01/09/2016 – 31/12/2021 Tehran, Iran

DOCTOR OF PHILOSOPHY Tarbiat Modares University of Tehran

01/09/2009 – 31/10/2011 Tabriz, Iran

MASTER Sahand university of technology

LANGUAGE SKILLSMother tongue(s): **PERSIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	B2	C1	C1
ITALIAN	A2	A2	A2	A2	A2

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user***DIGITAL SKILLS**

ASPEN PLUS (CHEMICAL ENGINEERING PROCESS SOFTWARE) | ANSYS workbench, ANSYS fluent | Basic knowledge in programming in MatlabC++Java | Microsoft Office package: Microsoft Word, Excel, PowerPoint, Access | Xpert Hiscore

ADDITIONAL INFORMATION**PUBLICATIONS**

Recent developments and future outlooks of hydrodynamic cavitation as an intensification technology for renewable biofuels production, Journal of Environmental Chemical Engineering, Volume 11, Issue 5, October 2023, 110819.

R. Hamidi, M. Damizia, P. De Filippis, D. Patrizi, N. Verdone, G. Vilardi, B. de Caprariis

Lignin-enriched waste hydrothermal liquefaction with ZVMs and metal-supported Al₂O₃ catalyst, Biomass and Bioenergy, Volume 165, October 2022, 106594

L.Tai, R.Hamidi, L. Paglia, P. De Filippis, M. Scarsella, B. De Caprariis,

Effect of modified zeolite supports on guaiacol hydrotreating with in-situ generated hydrogen, Renewable energy, Volume 182, January 2022, Pages 647-658

L. Tai, R.Hamidi, B. de Caprariis, M. Damizia, L. Paglia, M. Scarsella, P. De Filippis, R. Karimzadeh

Hydrotreating of oak wood bio-crude using heterogeneous hydrogen producer over Y zeolite catalyst synthesized from rice husk. Energy Conversion and Management, Volume 255, March 2022, 115348

R. Hamidi, L. Tai, L. Paglia, M. Scarsella, M. Damizia, P. De Filippis, S. Musivand, B. De Caprariis

Co-treatment of plastics with subcritical water for valuable chemical and clean solid fuel production, Journal of cleaner production, Volume 337, February 2022, 130529.

L.Tai, S. Musivand, M. Damizia, B. de Caprariis, R. Hamidi, W. Ma, P. De Filippis,

Influence of Fuel Type on Ultrasonic-assisted Combustion Synthesis of NiMo/Al₂O₃ Catalyst for Hydrodesulfurization of Thiophene, Journal of petroleum science and technology, volume 11, April 2022, pages 14-23.

R. Hamidi, R. Khoshbin, R. Karimzadeh,

A new approach for synthesis of well-crystallized Y zeolite from bentonite and rice husk ash used in Ni-Mo/Al₂O₃-Y hybrid nanocatalyst for hydrocracking of heavy oil, Advanced Powder Technology, 32 (2021) 524-534

R.Hamidi, R. Khoshbin, R. Karimzadeh,

In Situ Hydrodeoxygenation of Guaiacol using Magnetic Catalysts and Heterogeneous Hydrogen Producer, CHEMICAL ENGINEERING TRANSACTIONS, 2021, 86, 85-90

L. Tai, B. De Caprariis, P. De Filippis, R. Hamidi, M. Scarsella,

Facile fabrication, characterization and catalytic activity of a NiMo/Al₂O₃ nanocatalyst via a solution combustion method used in a low temperature hydrodesulfurization process: the effect of fuel to oxidant ratio, RSC Advances, 10 (2020) 12439-12450

R.Hamidi, R. Khoshbin, R. Karimzadeh,

The simultaneous removal of calcium, magnesium and chloride ions from industrial wastewater using magnesium–aluminum oxide, Journal of Environmental Science and Health, Part A, 48 (2013) 1225-1230

R. Hamidi, D. Kahforoushan, E. Fatehifar,

Kinetics and mechanism of sorption of chloride ion from sodium carbonate manufacturing wastewater by Mg–Al oxide, Desalination and Water Treatment, (2014) 1-10

R. Hamidi, P. Kazemi,

Sensitivity analysis of a natural gas triethylene glycol dehydration plant in Persian gulf region, Petroleum & Coal,53 (2011) 71-77

P. Kazemi, R. Hamidi,



J. Amedeo
Roja