yasin safaei
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Education

M.Sc. in chemical engineering, Process design, Iran. September 2015-July 2018
Quchan university of technology
Thesis: Numerical Study and modeling of CO2 Dissolution in Deep Saline Aquifers for Safe Storage of CO2
Supervisor: Dr. Mojtaba Seyyedi and Dr. Hossein Beiki

B.Sc. in chemical engineering, Chemical and mineral industry, Iran September 2005- December 2009
Sistan and Baluchestan University
Thesis: Laboratory study and industrial feasibility of leaching of oxide minerals
Supervisor: Professor Mohammad Khoshnoodi

Journal Publications

1. **Jalil Pazhoohan**, H.Beiki , M.Esfandyari'' Experimental investigation and ANFIS prediction of copper recovery from the flotation tailings by acid leaching in a batch agitated tank'' *International Journal of Mining Science and Technology (Submitted), May 2018.*

2. M.Seyyedi, B.Rostami, M.Pasdar, **Jalil Pazhoohan**'' Experimental and numerical study of the effects of formation brine salinity and reservoir temperature on convection mechanism during CO2 storage in saline aquifers''*Journal of Natural Gas Science and Engineering, July 2016.*

Conference Publications

1. M. Seyyedi, B. Rostami, **Jalil Pazhoohan** ''Experimental Study of the Impact of Salinity and Temperature on Convection Mechanism during CO2 Storage in Saline Aquifers''*78th EAGE Conference & Exhibition, Vienna 2016.*

2. **Jalil Pazhoohan**, H. Beiki, A. Zare ''Mathematical and thermodynamic modeling of carbon dioxide solubility in saline aquifers''*4th international conference on science and engineering, Rome-Italy,10-11 July 2016.*

3. **Jalil Pazhoohan**, H. Beiki, M. Mahdaviyan ''Review of carbon dioxide absorption technologies'' *Third National Conference on New Technologies in Chemistry, Petrochemicals and Nano in Iran. Tehran, April 2016*

4. **Jalil Pazhoohan**, M. Mahdaviyan ‘‘Laboratory study and industrial feasibility of leaching of oxide minerals of Taknar copper mine’’ *4th national conference on chemistry and chemical engineering (with nano industry development approach),Quchan November 2015.*

5. Y. Jafari, **Jalil Pazhoohan** ‘‘Simulation of HT-PEM fuel cell using CFD’’ *Third National Conference on New Technologies in Chemistry, Petrochemicals and Nano in Iran. Tehran, April 2016.*

Research interest

- Multiphase flow modelling
- Drug delivery
- Carbon capture and storage
- Nano technology
- Waste processing

Certifications

1. HSE Direct Assessment services, September 2015, License HS-804-09.
2. Visual Testing Examinations – ASNT, Sep 2015 – Feb 2020, License 35360.
3. Oil and Gas Management, Amin Institute of Higher Education, July 2016-November2016.

Experience

Project Supervisor, National Iranian Gas Company, Iran January 2016 – Present

- Electro fusion and Butt jointing of polyethylene (PE) pipes.
- Natural gas transmission and distribution piping systems.
- Natural gas pressure reducing station (CGS & TBS) design.
- Visual Inspection of steel welds according ASME Standards.

Research assistant in Quchan university December 2015-Agust 2016

- Led and taught Mass transfer course for undergraduate Student of Quchan university of technology.

Project Manager, Adonis Aria engineering and technical laboratory, Iran 2013-2015

- Carrying out the crash test of electrofusion welds of the polyethylene welding of the gas transmission pipes
- Investigating the use of non-destructive methods to identify the defects of polyethylene welds

Chemical Engineer, Toos Flat Khavaran engineering company, Iran 2010-2012

- consulting on the design, construction, and commissioning of mineral processing sites to the exploitation stage through feasibility studies and additional testing to select the best processing method to achieve the investor's objectives, taking into account the project scheduling schedule.

Awards

Top researcher at Quchan university of technology among all of master's students, September 2015.

Skills

- Excellent team player with excellent communication skills
- Expert in successfully consulting, designing, performing and analysis the data of Cu experiments performed with apparatus atomic absorption AA240 spectrometer.
- Experienced in working with COMSOL Multiphysics.
- Good understanding of MATLAB programing and ANFIS.
- Numerical dissolution of Partial Differential Equations.
- Familiar to Python programing.
- Expert in generic drugs, their usage, dosage and effects
- Familiarity with industrial pharmacology

References

- Dr. Mojtaba Seyyedi, Postdoctoral Associate at Department of Chemical and Petroleum Engineering, University of Calgary (thesis supervisor).
  Email: seyyedmojtaba.seyyed@ucalgary.ca

- Dr. Hossein Beiki, Assistant Professor at Department of Chemical Engineering, Quchan University of Technology, (thesis supervisor).
  Email: hbeiki@qiet.ac.ir