

SAMANEH SANJARI

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EDUCATION

PhD of Chemical Engineering, 2009-2014, Amirkabir University (Tehran Polytechnic), Tehran

With a GPA of **19.04** on a 20 scale.

MSc of Chemical Engineering (Biotechnology), 2005-2008, Tarbiat Modares University, Tehran

With a GPA of 16.31 on a 20 scale.

BSc of Chemical Engineering, 2000- 2005, Tehran University, Tehran

With a GPA of 15.67 on a 20 scale.

WORK EXPERIENCE

Institute for International Energy Studies, Institute for International Energy Studies: 2022-

Now

- Head of Technology Policy and Foresight Group, Institute of Strategic Technology Studies
- Researcher: Carrying out downstream projects in the oil and gas field (Petrochemicals): Chemical Parks, development of value chain of methanol/ Carrying out projects related to foresight and future studies: Futurology of world energy

Ministry of Petroleum of Iran: 2011-2022

- Head of Technology Foresight Office (2018-2022): The concept and function of foresight in the oil and gas was introduced to the oil industry and to the experts and managers of this industry. Besides projects were also carried out in this field.
- Basic engineering policy making expert (2010-2018): Policy making, preparing Procedures for oil and gas industry (with emphasis on Technology): TRL (Technology Readiness Level), TTA (Technology Target Area), WBS in Research and development oil projects, Technology management, Intellectual Property, Reverse Engineering

NIORDC (National Iranian Oil Refining and Distribution Company): 2005-2011

- Expert of the Export and Bunkering of the oil products, Deputy of Supply and Distribution in NIOPDC: 2008-2011
- Expert of the Data Analysis in the Deputy of Supply and Distribution in NIORDC (National Iranian Oil Refining and Distribution Company): 2005-2008

IROST (Iranian Research Organization for Science and Technology): 2003-2005

- Chemical engineering internship for Cooperation in the treatment of Alumina ore for catalyst production in Chemistry Institute of Iranian Research Organization for Science and Technology, Tehran Iran.
- Cooperation in the field of green chemistry and related subjects.

JOURNAL PAPERS

1. Osmotic coefficient data and an excess Gibbs energy function for single-phase complex system of glucose + alcohol + water, *Fluid Phase Equilibria*, Volume 277, Issue 2, 2009, 107-113:
2. Experimental studies and kinetic modeling of cyclodextrin glucoamylase production from starch with the use of *Bacillus* sp. DSM 2523, *Starch/Stärke*, Volume 66, 2014, 606-614
3. Hydrodynamics and mass transfer coefficients of airlift reactors with net draft tubes of different sizes: Production of cyclodextrin glucoamylase using *Bacillus* sp. DSM 2523, *Starch/Stärke*, Volume 66, 2014, 1-12
4. Modeling and Optimization of β -Cyclodextrin Production by *Bacillus licheniformis* using Artificial Neural Network and Genetic Algorithm, *Iranian Journal of Biotechnology*, Volume 11, Issue 4, 2013, 223-232
5. *Bacillus* sp. DSM 2523 entrapped within chitosan beads used as the whole cell biocatalyst for the production of cyclodextrin glucoamylase in a fluidized bed bioreactor, *Starch/Stärke*, Volume 68 (9-10), 2016, 989–998

PATENTS

- Enzymatic production of a cyclic starch (β -cyclodextrin) as a surfactant.
- Design and construction of an airlift reactor with the net draft tube (ALR-NDT)

LECTURING EXPERIENCE

Cooperation to the M.Sc. and B.Sc. projects in the Amirkabir (Polytechnic) University: 2011-2017

Lecturing of the main Chemical Engineering courses in Islamic Azad University (Science and Research Branch, Tehran): 2014-2016

LANGUAGE SKILLS

- Persian: Mother tongue
- English: Fluent in speaking, listening, writing and reading
- Arabic: Familiar
- German: Familiar

COMPUTER SKILLS

- Proficient/familiar with: HYSIS/ ASPEN/ FLUENT/ Gambit/ COMSOL/ Neural Power (Artificial Neural Network Modeling)/ RSM (Design Expert)/ MAPLE/ SPSS/ MS Office