

Education

- **Feb. 2014 – Sep. 2017**
Chemical Engineering Faculty, Azad University of Shahrood – Shahrood, Iran.
(<http://iau-shahrood.ac.ir>)
University Rank in Iran: 2.
M.Sc. in Chemical Engineering in Processing, GPA: 3.19
M.Sc. Thesis: Process design and fabrication of nanocomposites based on poly (Lactic acid)/ poly (Caprolactone)/ Starch/POSS: Full morphological and rheological Characterization [Grade= A+].
Supervisors: Prof. Hossein Ali Khonakdar & Dr. Javad Seyfi.
- **Jan. 2012 – Mar. 2013**
Chemical Engineering Faculty, Tehran-Valiasr Technical University.
B.Sc. in Industrial Chemical Technology Engineering in Chemical Industries.
BSc. project: Crude Oil Standard [Grade= A+].
Supervisor: Dr. Ahmad Halaji Sani.

Honors & Awards

- **Research Associate** at Azad University of Shahrood
- **Ranked top 10%** of Iran's national qualification exam for university entrance
- Accepted as a **full-scholarship** student for bachelor degree in Tehran-Valiasr Technical University

Publication

- **B. N. Oshani**, S. M. Davachi, Iman. Hejazi, J. Seyfi, HA. Khonakdar, A. Abbaspourrad. "Enhanced compatibility of starch with poly (lactic acid) and poly (ϵ -caprolactone) by Incorporation of POSS nanoparticles: Study on thermal properties". International Journal of Biological Macromolecules, 2019.
Link: <https://www.sciencedirect.com/science/article/abs/pii/S0141813019351153>
- H. Rashidi, **B. N. Oshani**, I. Hejazi & J. Seyfi. "Tuning crystallization and hydrolytic degradation behaviors of poly (lactic acid) by using silver phosphate, zinc oxide and their nano-hybrids". Polymer-Plastics Technology and Materials, 2019.
Link: <https://www.tandfonline.com/doi/full/10.1080/25740881.2019.1625382>

- A.R.Khashab, **B. N. Oshani**. "Laboratory study of natural gas hydrates formation in acetone solution and Evaluation of injection Volume of this solution with different concentrations using the obtained results". The Second International Conference on New Research Findings in Chemistry and Chemical Engineering 2017.
Link: <https://civilica.com/doc/477519/>

Work Experience

- **Nov.2015- Mar. 2019**
ABS co. (Engineering laboratory Equipment Suppliers). As:
- **Technical & Sales Expert** (Chemical Engineering Dept.)

- **From 2019 to present**

Research assistant

Professor.Dr.Hossein Ali Khonakdar at Iran polymer and petrochemical institute.

Email: hakhonakdar@gmail.com

Link: <http://en.ippi.ac.ir/index.aspx?pageid=446&p=1>

Areas of Interest

- Design and preparation of multicomponent
- Nanocomposite Characterization
- Chemical & Process Engineering
- Simulation & Optimization (Chemical Processes)
- wastewater
- Biodegradable Plastics
- Surface Modification
- Polymer characterization
- Material Synthesis

Selected Courses

- Advanced Mass transfer in Chemical Engineering [Grade= A+].
- Advanced Thermodynamics in Chemical Engineering [Grade= A+].
- Advanced Kinetics and Reactor Design in Chemical Engineering [Grade= A+].

Workshops

- **High-Performance Liquid Chromatography (HPLC)**, Instrumental Analysis Lab of Chemical Engineering.
- **Gas Chromatography (GC)**, Instrumental Analysis Lab of chemical Engineering.
- **Karl Fischer**, Instrumental Analysis Lab of Chemical Engineering.
- **CHN**, Instrumental Analysis Lab of Chemical Engineering.
- **XRF**, Instrumental Analysis Lab of Chemical Engineering.
- **XRD**, Instrumental Analysis Lab of Chemical Engineering.

- **UV-Vis** , Instrumental Analysis Lab of Chemical Engineering.
- **FTIR** , Instrumental Analysis Lab of Chemical Engineering.
- **Aspen Plus**, Department Ch.E., Tehran Valiasr Girls Technical University.
- **Hysys** , Falat Ghareh Technical Institute, Tehran, Iran.
- **PFD-P&ID** , Falat Ghareh Technical Institute.
- **ICDL, Technical and Vocational Training Organization.** Ministry of Labor and Social Affairs.
- **Passive Sampling for Air Quality Measurements.** First Green Pars Conference at PSEEZ in Assaluyeh.
- **H2S Analyser**, ABS Company.
- **PM-93 Pensky-Martens Flash Point Tester**, ABS Company.
- **AvCount2 Particle Counter**, ABS Company.
- **Salt in Crude Analyser** , ABS Company.

Computer Skills

- **Operating Systems:** Microsoft Windows
- **Training Course:** P&ID
- **Process *Simulation*:** Aspen plus & Hysys
- **Application Software:** Microsoft Office
- **Piping:** PDMS

Languages

- **Persian** Native
- **English** Fluent (The IELTS will be taken soon)

Hobbies and Interests

- Swimming
- Yoga
- Cycling
- Reading books
- Snow Skiing
- Travelling

References

- **Hossein Ali Khonakdar**, Professor of Polymer Engineering at Iran Polymer & Petrochemical Institute And External Scientific Member at Leibniz Institute of Polymer Research - Dresden.
Email: hakhonakdar@gmail.com
Link: <http://en.ippi.ac.ir/index.aspx?pageid=446&p=1>
- **Javad Seyfi**, Assistant Professor of Chemical Engineering a Azad University of Shahrood.
Email: jseyfi@gmail.com
Link: <https://scholar.google.com/citations?user=kdk5iAAAAAJ&hl=en>
- **Ahmad Halaji Sani**, Assistant Professor of Chemical Engineering, Tehran University.
Email: Hallaji@ut.ac.ir
Link: <https://rtis2.ut.ac.ir/cv/hallaj/>