

PERSONAL
INFORMATION
YOUSEF TAMSILIAN,
Assistant Professor & Director of SCU Laboratories Affairs

📍 Work Address: Petroleum, Gas & Petrochemical Engineering Department (PGP), Faculty of Engineering, Shahid Chamran University of Ahvaz (SCU), Golestan Ave., Ahvaz, Iran

Postal Code: 61357 83151

☎ +98 61 33333011 to 19 – Ext. 5754 ✉ tamsilian@scu.ac.ir

📍 Residence Address: Unit 31, Arvand Saheli Tower, Khaghani St., Amiri Ave., Abadan, Iran

Postal Code: 63168 98272

☎ +98 61 53530383 📞 +98 912 092 4520 ✉ tamsilian@gmail.com

Sex Male | Date of Birth 05/05/1986 | Nationality Iran, Abadan

PREFERRED JOB
APPLIED FOR

Technology Commercialization
(Lab to TOT)

Smart Nanomaterials and Polymers for: CEOR, Oil & Grease Absorption, Self-Cleaning Coating, Drilling Fluid, Lubricant VII, Textile Coating

Project Development
(FS to Operation)

Wastewater Treatment, Flare/Furnace Gas Recovery, Refinery/Petrochemical Process Troubleshooting and Debottlenecking

BRIEF
BACKGROUND

Skills Keywords

Acrylamide-based polymers, Inverse Emulsion Polymerization, Nanomaterials, Feasibility Study & Basic Design, Aspen-Polymer Software, OpenFOAM Software, Project Engineering, CEOR, O&G Absorption

Resume at statistics

ACADEMIC APPROACH from B.Sc. program up to now (15 years)			INDUSTRIAL APPROACH from M.Sc. program up to now (10 Years)	
Projects Done	Publications Done	Courses Passed	Projects Done	Courses Held
17	50	20	33	10
Academic Experience: 2 Years			Industrial Experience: 8 Years	

CITATION

Feb. 2019



Citation Indices

All

Since 2014

Citations

88

83

h-index

6

6

i10-index

4

4

https://scholar.google.com/citations?user=_CU9iuQAAAAJ

EDUCATION

2012-2016

Chemical Engineering - Nanotechnology

Ph.D. Graduate Program

GPA: 18.76

Sharif University of Technology (SUT, Tehran, Iran)

- Thesis: *Preparation of Thermoviscosifying Polymer Nanoparticles to Apply in Smart Enhanced Oil Recovery Process*
- Supervisor: Prof. A. Ramazani S.A., Prof. S. Sh. Ayatollahi, Prof. M. Masihi of SUT, Prof. J. J. Sheng of TTU, Prof. J. C. de la Cal & Prof. R. Tomovska of POLYMAT
- Sabbatical Course: POLYMAT of University of the Basque (Spain) & BASF Co. (Germany)
- Research Fellow: Texas Tech University (TTU, USA)

2009- 2011

Chemical Engineering - Polymer Engineering

M.Sc. Undergraduate Program

GPA: 17.77

Sharif University of Technology (SUT, Tehran, Iran)

- Thesis: *Preparation of Polyacrylamide Nanoparticle with Intelligent Nanoscale Coating to Control Solubility of Polymer during Polymer Enhanced Oil Recovery Process*
- Supervisor: Prof. A. Ramazani S.A. of SUT & Prof. R. Tomovska of POLYMAT

2004- 2008

Chemical Engineering

B.Sc. Undergraduate Program

GPA: 17.69

Sharif University of Technology (SUT, Tehran, Iran)

- Thesis: *Feasibility Study of ETBE Production Process Unit in Arak Petrochemical Complex*
- Supervisor: Dr. M. Adimi of Arak University & Prof. A. Ramazani S.A. of SUT

WORK EXPERIENCE**Academic:** 2 year**Industrial Years:** 8 year**Total Years:** 10 year

2017-Present

**Faculty Member & Member of University International Affairs Council****Shahid Chamran University of Ahvaz, Ahvaz, Iran**

▪ Petroleum, Gas & Petrochemical Engineering Department

Course Taught for Universities:

- Numerical Calculation
- General Chemistry
- Water & Wastewater Engineering
- Research Methods for Engineer
- Basic for Drilling Eng.
- Advanced Drilling Eng.
- Mechanical Facilities

Course Taught for Industries:

- Wastewater Engineering
- Membrane Technology in Oil & Gas Industries
- Thermodynamic

Touched Projects:

- Lab Work & Pilot Plant, Smart Polymers and Nanomaterial for Enhanced Oil Recovery Process, 2017-now.
- BEDP & Process Package Scopes, Superhydrophobic Sponge to Continuous Removal of Oil & Grease from Industrial Wastewater, 2017-now.

Business or sector Monthly Payment Based, Full-time

2010-2017

**Technical Instructor****Sharif University of Technology, Tehran, Iran**

Applied Courses:

- Chemical Eng. Package in Gas Refinery, Scientific Text Writing, OpenFOAM Software, Design of Experiment (DOE), Phased Array UT Inspection, Project Engineering

Business or sector Course Payment Based, Part-time

2013- Present

**CEO****MPA Co., Abadan, Iran**

Touched Projects:

- BEDP & Process Package Scopes, Self-Cleaning Superhydrophobic Paint, 2017-now.

Business or sector Monthly Payment Based

2015-2017

**Engineering Project Manager****Oil Design & Construction Co., Tehran, Iran**

Touched Projects:

- BEDP & Process Package Scopes, New LPG Treating Unit of Abadan Oil Refinery Upgrading Project, NIOEC, Iran, 2016-17.
- FS Scope, Abadan Oil Refinery Upgrading Project, NIOEC, Iran, 2016-17.
- FS Scope, Tabriz Oil Refinery Products Upgrading Project, TzORC, Iran, 2017.
- FS, BEDP & DE Scopes, Process Optimization and Energy Saving Project in South/North Catalytic Reforming Units along with Replacing the Existing Shell & Tube Heat Exchanger with Packinox Plate Heat Exchanger and Installing Waste Heat Boiler in the Existing Furnaces, TORC, Iran, 2017.
- FS Scope, Fertilizer and Chemicals Production Complex Project, TmChem, Turkmenistan, 2017.
- EPC Scope, CO₂ Recovery Unit Project, Fanavaran Petrochemical Complex, Iran, 2017.
- MR Scope, Tabriz Oil Refinery Products Outlook Project, SK Engineering & Construction, South Korea, 2016.

Business or sector Monthly Payment Based, Full-time

2013-2015

**Senior Project Engineer****Daneshpajouhan Noavar Co., Tehran, Iran**

Touched Projects:

- FS & BEDP Scopes: Quantification & Documentation of Executive Procedure for Phased Array Ultrasonic Inspection to Detect Flaws of Polyethylene Pipes, NIGC, Iran, 2013-15.
- MR Scope: Marketing Research & Developing Marketing Strategy in ABS Polymer and Derivatives, Ghaedbasir Petrochemical Complex, 2014-15.
- MR Scope: Marketing Research & Developing Marketing Strategy for Using Chemicals in National Iranian Oil Companies, NIOC, 2015.
- MR Scope: Marketing Research and Developing Marketing Strategy in Lubricant Oils for Sepahan Oil Company, Iran, 2015.
- MR Scope: Marketing Research & Developing Marketing Strategy in Granule, Hunt, and Bentonite Sulphur for Shahid Hasheminejad Gas Refinery Company, Iran, 2013.

Business or sector Monthly Payment Based, Full-time

ACADEMIC BACKGROUND

INDUSTRIAL BACKGROUND



2011-2012

Senior Process Engineer**TESCO, Phases 15 & 16, South Pars Gas Field Development, Assaluye, Iran**

Industrial Courses:

- N₂ Purging, Utilities Units, Gas Process Units, Mechanical/Process Isolation, Chemical Engineering Package in Gas Refinery, Phased Array UT Inspection

Touched Projects:

- Pre-commissioning & Commissioning of Process Units: Gas Treating, SRU & Tail Gas Treatment, Condensate Stabilization, NGL Fractionation, Sour Water Stripper, Ethane/Propane/ Butane Treatment & Drying
- Pre-commissioning & Commissioning of Utilities Units: Fuel Gas, Steam Generation & Distribution, Instrument & Services Air & Nitrogen, Sea Water Desalination, Fire Water, Cooling Water, Flare & Blow Down

Business or sector Monthly Payment Based, Full-time

2010-2011

Sharif University of Technology
Sharif Energy Research Institute (SERI)**Senior Process Engineer****Sharif Energy Research Institute (SERI), Tehran, Iran**

Touched Projects:

- Comprehensive Program Development of Energy Optimization in National Iranian Oil Company including IOOC, ICOFC, NISOC

Business or sector Monthly Payment Based, Full-time

2007-2008

**Process Engineer****Pardis (Ghadir) Petrochemical Complex, Assaluye, Iran**

Touched Project:

- Operation in Ammonia & Urea Units

Business or sector Monthly Payment Based, Full-time

2005-2006

Kimya
Gostaran
Sepehr**Process Engineer****Kimyagostaran Sepehr Co., Arak, Iran**

Touched Projects:

- Pre-commissioning & Commissioning of ETBE and MEG

Business or sector Monthly Payment Based, Part-time**PATENT PUBLICATION****International:** 2 Published**National:** 2 Published**Total:** 4 Published

Jun. 2015

UNITED STATES
PATENT AND TRADEMARK OFFICE

US Patent, Published

Smart Polymer Flooding Process

- Inventors: Y. Tamsilian, A. Ramazani S.A.
- Application NO.: US20150148269

Jul. 2014

UNITED STATES
PATENT AND TRADEMARK OFFICE

US Patent, Published

Producing Nanostructure of Polymeric Core-Shell to Intelligent Control Solubility of Hydrophilic Polymer during Polymer Flooding Process

- Inventors: Y. Tamsilian, A. Ramazani S.A.
- Application NO.: US20140187451

Mar. 2012

Judicial system of Iran
Office of Registration of
Documents and Lands

Iranian Patent, Published

Design of Intelligent Nanoscale Core-Shell Structure of Polyacrylamide-Polystyrene for Controlled Release of Polymer during Enhanced Oil Recovery Process

- Inventors: Y. Tamsilian, A. Ramazani S.A.
- Application NO.: 74181

Jan. 2011

Judicial system of Iran
Office of Registration of
Documents and Lands

Iranian Patent, Published

Preparation of Polyacrylamide Nanoparticle with Intelligent Nanoscale Coating to Control Solubility of Polymer during Polymer Flooding Process

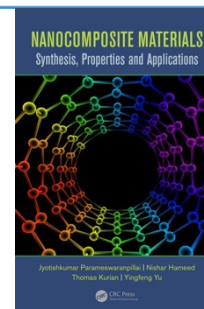
- Inventors: Y. Tamsilian, A. Ramazani S.A.
- Application NO.: 68076

BOOK PUBLICATION**Book:** 2 Published**Chapter Book:** 1 Published**Total:** 3 Published

Oct. 2016

Taylor & Francis Publication, Published
Chapter: Synthesis of Nanomaterials
Book: Nanocomposite Materials:
Synthesis, Properties and Applications of
Nanomaterials

- Authors: A. Ramazani S.A., Y. Tamsilian, M. Shaban



Dec. 2012

Ava Publication, Published
Solution Book of Molecular
Thermodynamic for Fluid-Phase
Equilibrium

- Authors: J. Shariaati, Y. Tamsilian

Sep. 2011

Noavar Publication, Published
Computational Fluid Dynamics with
OpenFOAM Software

- Authors: Y. Tamsilian, A. Zolfaghari

**JOURNAL PUBLICATION****ISI-indexed:** 7 Published**ISI Non-indexed:** 6 Published**Total:** 13 Published

Under Preparation

ACS Materials & Interfaces Journal, American Chemical Society Publication
Superhydrophobic Polyurethane Composites Modified by Magnesium Stearate/MOF/
SiO₂/TiO₂: Synthesis, Characterization and Evaluation of Organic Pollutants Sorption

- Author: A. Parsaie, M. Mohammadi Khanaposhtani, M/ Ryazi, Y. Tamsilian

Under Preparation

ACS Materials & Interfaces Journal, American Chemical Society Publication
Superhydrophobic Polyurethane Composites Modified by MOF: Synthesis,
Characterization and Evaluation of Organic Pollutants Sorption

- Author: Y. Tamsilian, Z. Ansari, A. Maghsoudian, R. Kazemi

Under Preparation

ACS Materials & Interfaces Journal, American Chemical Society Publication
Self-Cleaning Materials as a Promising Technology: An Update Review

- Author: A. Parsaie, Y. Tamsilian

Under Preparation

Energy & Fuel Journal, Elsevier Publication
Experimental and Theoretical Study of Core Scale Spontaneous Imbibition Process
during Chemically Enhanced Smart Water Process

- Author: M. Shirazi, Sh. Kord, M. Jamialahmadi, Y. Tamsilian

Under Preparation

Energy & Fuel Journal, Elsevier Publication
Chemical Enhanced Oil Recovery Process: An Updated Review

- Author: M. Shirazi, Y. Tamsilian, J. J. Sheng, R. Tomovska

Under Preparation

Polymer Review Journal, Taylor & Francis Publication
Polymer Flooding as One of the Most Promising Technologies in Enhanced Oil
Recovery Process: An Update Review

- Author: F. Hashemi, Y. Tamsilian, J. J. Sheng, R. Tomovska

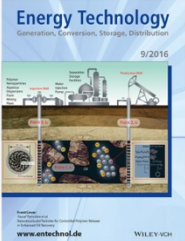
Under Preparation

Fuels Journal, Elsevier Publication
Nanotechnology-Assist Enhanced Oil Recovery Process: An Updated Review

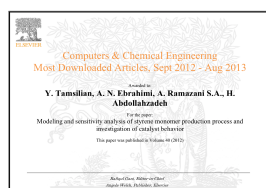
- Author: M. Shrazi, Y. Tamsilian, J. J. Sheng, R. Tomovska

2019-Submitted

IJGE Journal

- Phase Arrayed Ultrasonic Test of Polyethylene Electrofusion Joints: An Updated Review
 ▪ Authors: Y. Tamsilian, H. Beigi-rizi
- 2019-Submitted Polymer Chemistry Journal
 Preparation of Associative Polyacrylamide Nanoparticles Incorporating with High Percent of Various Non-Ionic, Aromatic Hydrophobic Groups and Investigation of their Solution Behaviour and Shear Viscosity in Presence of High Salinity Brines
 ▪ Authors: M. Shaban, A. Ramazani, J. Poostforooshan, S. Beuermann, Y. Tamsilian, A. Weber
- 2019-Submitted ACS Materials & Interfaces Journal
 Synthesis and Thermoassociative Properties of Aqueous Solution of High Molecular Weight Graft Copolymers Containing Poly(acrylamide-co-diacetoneacrylamide) Side Chains
 ▪ Authors: Y. Tamsilian, A. Agirre Extebarrial, M. Fernandez, J. J. Sheng, R. Tomovska
- 2019-Published Journal of Applied Polymer Science, Wiley Online Library Publication
 Inverse Emulsion Polymerization of Triple Monomers of Acrylamide, Maleic Anhydride and Styrene to Achieve Highly Hydrophilic-Hydrophobic Modified Polyacrylamide
 ▪ Author: Z. Lalehgani, A. Ramazani S.A., Y. Tamsilian, M. Shrazi
- 2018-Published Academic Journal of Polymer Science, Juniper Publishers
 Polymer Enhanced Oil Recovery Process: An Updated, Narrowed Review
 ▪ Author: M. Shirazi, Sh. Kord, M. Jamialahmadi, Y. Tamsilian
- 2016-Published Nanotechnology Monthly Journal, Iranian Publication
 Review on Nanomaterial Application in Enhanced Oil Recovery Process
 ▪ Authors: Y. Tamsilian, A. Ramazani S.A., Sh. Ayatollahi
- 2016-Published European Polymer Journal, Elsevier Publication
 Facile Synthesis of Cauliflower-like Hydrophobically Modified Polyacrylamide Nanospheres by Aerosol-photopolymerization
 ▪ Authors: M. Shaban, A. Ramazani S.A., M. M. Ahadian, Y. Tamsilian, A. P. Weber
- 2016-Published Energy Technology Journal, Wiley-VCH Verlag GmbH & Co.
 Nanostructured Particles for Controlled Polymer Release in Enhanced Oil Recovery
 ▪ Authors: Y. Tamsilian, A. Ramazani S.A., Sh. Ayatollahi, J. C. de la Cal, J. J. Sheng, R. Tomovska
-  * **Note: Featured on the front cover**
- 2015-Published Colloids and Polymer Journal, Springer
 High Molecular Weight Polyacrylamide Nanoparticles Prepared by Inverse Emulsion Polymerization: Reaction Conditions-Properties Relationships
 ▪ Authors: Y. Tamsilian, M. Shaban, A. Ramazani S.A., Sh. Ayatollahi, R. Tomovska
- 2014-Published Scientia Iranica F, Elsevier Publication
 Enhanced Oil Recovery Performance and Time-Dependent Role of Polymeric Core-Shell Nanoemulsion
 ▪ Authors: Y. Tamsilian, A. Ramazani S.A.
- 2013-Published Journal of Dispersion Science and Technology, Taylor & Francis Publication
 Formation and Economical Study on Hydrate Technology with NGH Pellets
 ▪ Authors: Y. Tamsilian, A. Nejadbrahimi, A. Ramazani S.A.
- 2013-Published Farayand Journal, Sharif University of Technology Publication
 Dynamic Analysis and Fabrication Process of Mechanical Elements with ABAQUS Software
 ▪ Authors: Y. Tamsilian

2012-Published



Computers & Chemical Engineering Journal, Elsevier Publication
 Modelling and Sensitivity Analysis of Styrene Monomer Production Process and Investigation of Catalyst Behaviour

▪ Authors: Y. Tamsilian, A. Nejadebrahimi, A. Ramazani S.A., H. Abdollahzadeh

* **Note: Gifted for Most Downloaded Articles**

2012-Published

Brazilian Journal of Petroleum and Gas, Elsevier Publication
 Study of Hydrogel Modified Drilling Fluid: Preparation, Rheological Properties and Swelling Behaviours of Chitosan N-Isopropylacrylamide Hydrogel

▪ Authors: Y. Tamsilian, A. Ramazani S.A.

2011-Published

Petroleum Research Journal (RIPI), Iranian Publication
 Comparison of Prepared Hydrogels by Heating and Irradiation Methods and Investigation of Their Effects on Rheological Properties of Drilling Mud

▪ Authors: Y. Tamsilian, A. Ramazani S.A.

2011-Published

Farayand Journal, Sharif University of Technology Publication
 Introduction of OpenFOAM: CFD Software

▪ Authors: Y. Tamsilian

2010-Published

Petroleum Science and Technology Journal, Taylor & Francis Publication
 Preparation and Rheological Investigation of Polymer and Hydrogel Modified Drilling Mud

▪ Authors: Y. Tamsilian, A. Ramazani S.A., N. Khosravi

CONFERENCE PUBLICATION

Oral: 23

Poster: 9

International: 23

National: 7

Total: 30

2018-Poster

13th International Seminar on Polymer Science & Technology (13th ISPST), Tehran, Iran

Synthesizing New Hydrophobically Thermoassociative Smart Copolymer Appropriate for High Temperature, High Salinity Reservoir Condition

▪ Authors: A. Maghsoudian, Sh. Kord, Y. Tamsilian, M. Shajirat, A. Kazemi Abadshapouri

2018-Poster

2nd International Biennial Oil, Gas and Petrochemical Conference (OGPC2018), Tehran, Iran

Polymer Flooding as One of the Most Promising Technologies in Enhanced Oil Recovery: An Update Review

▪ Authors: A. Maghsoudian, M. Shajirat, Sh. Kord, Y. Tamsilian, Sh. Vosoughi

2018-Poster

7th International Congress on Nanoscience & Nanotechnology (7th ICNN), Tehran, Iran
 Spontaneous Imbibition Study of Titania-Seawater Nanofluid

▪ Authors: M. Shirazi, Sh. Kord, M. Jamialahmadi, Y. Tamsilian

2018-Poster

7th International Congress on Nanoscience & Nanotechnology (7th ICNN), Tehran, Iran
 Enhanced Oil Recovery Process by Silica Nanoparticles and Hydrophilic Polymer: Simultaneous Wettability Alteration and Viscosity Increase Mechanism

▪ Authors: A. Kazemi Abadshapooria, M. Riazi, M. Malayeri, Y. Tamsilian

2018-Oral

2nd National Congress on Fractured Reservoirs Development Approached for Enhanced Recovery from Reservoirs, Tehran, Iran

Synthesis of New Polymer for Oil Recovery from High Temperature and High Salinity Fractured Carbonate Oil Reservoirs

▪ Authors: A. Maghsoudian, M. Shajirat, Sh. Kord, Y. Tamsilian, Sh. Vosoughi

2016-Oral

6th Global Experts Meeting on Nanomaterials and Nanotechnology, Spain
 Protected Polyacrylamide Nanostructure Used for Enhanced Oil Recovery: Stability Behaviours and Flooding Tests

- 2016-Oral

6th International Conference on Nanostructures (ICNS6), Kish, Iran
[Molecular Dynamic Simulation of Wettability Alteration of Carbonate Core Plug Using CTAB Surfactants](#)
 ▪ Authors: Y. Tamsilian, A. Ramazani S.A., Sh. Ayatollahi, J. Carlos de la Cal, J. J. Sheng, R. Tomovska
- 2015-Oral

5th International Colloids Conference, Amsterdam, The Netherlands
[Novel Core-Shell Nanostructure of Polyacrylamide/Polystyrene to Take away Limitations of the Classical Polymer Flooding](#)
 ▪ Authors: Y. Tamsilian, M. Shaban, A. Ramazani S.A., Sh. Ayatollahi
- 2015-Poster

9th International Petroleum Technology Conference (IPTC), Doha, Qatar
[Polymer Waterflooding Design and Implementation Using Novel Core-Shell Nanostructure of Polyacrylamide/Polystyrene](#)
 ▪ Authors: Y. Tamsilian, M. Shaban, A. Ramazani S.A., Sh. Ayatollahi
- 2015-Oral

77th European Association Geoscientists & Engineers (EAGE), Madrid, Spain
[Smart EOR Process using Novel Core-Shell Nanostructure](#)
 ▪ Authors: Y. Tamsilian, M. Shaban, A. Ramazani S.A., Sh. Ayatollahi
- 2014-Oral

5th International Conference on Nanostructures (ICNS5), Kish, Iran
[Study of Wettability Effects on Microscopic and Macroscopic Sweep Efficiency of Polymer Flooding: An Experimental Approach](#)
 ▪ Authors: Y. Tamsilian, A. Ramazani S.A.
- 2013-Oral

International Conference on Nanotechnology: Fundamentals and Applications (ICNFA2013), Montreal, Canada
[Smart Polymer Flooding Process with Nanoscale Core-Shell Structure](#)
 ▪ Authors: Y. Tamsilian, A. Ramazani S.A.
- 2012-Oral

3rd International Conference on Nanotechnology and Biosensors (ICNB2012), Kuala Lumpur, Malaysia
[Preparation of Core-Shell Structure Particles by Inverse Emulsion Polymerization to be used in Modified Polymer Flooding Process](#)
 ▪ Authors: Y. Tamsilian, A. Ramazani S.A.
- 2012-Poster

10th International Seminar on Polymer Science & Technology (ISPST 2012), Tehran, Iran
[Polymerization of Hydrophobic Polymer Nanocoating \(HPNC\) over Hydrophilic Polymer Nanoparticles \(HPNP\) to Optimize EOR Process](#)
 ▪ Authors: Y. Tamsilian, A. Ramazani S.A.
- 2012-Oral

PPS Amricas Conference 2012, Ontario, Canada
[Preparation of Core-Shell Nanostructure by Water-Soluble and Oil-Soluble Polymers to Intelligently Control Solubility of Active Polymer during Polymer Flooding Process](#)
 ▪ Authors: Y. Tamsilian, A. Ramazani S.A.
- 2012-Oral

The 14th Iranian National Chemical Engineering Congress (IChEC2012), Tehran, Iran
[Risk Assessment of ETB Production Process](#)
 ▪ Authors: Y. Tamsilian, M. Adimi, A. Ramazani S.A.
- 2012-Oral

11th Nanotechnology Student Conference, Tehran, Iran
[Preparation of Hydrophilic Polymer Nanoparticles with Intelligent Polymeric Nanoscale Coating to Control Solubility of Polymer during Polymer Flooding Process](#)
 ▪ Authors: Y. Tamsilian, M. Adimi, A. Ramazani S.A.
- 2011-Poster

PPS 2011 Asia/Australia Regional Meeting, Kish, Iran
[Modelling and Simulation of Generalized Newtonian and Viscoelastic Fluid Flows in Screw Turning Extruder in The Presence of Leakage Flow](#)
 ▪ Authors: Y. Tamsilian, A. Ahmadian, A. Ramazani S.A.

- 2011-Poster PPS 2011 Asia/Australia Regional Meeting, Kish, Iran
Solving the Undesirable Polymerization Problem in The Industrial Unit of Styrene Production
▪ Authors: Y. Tamsilian, A. Nejadebrahimi, A. Ramazani S.A.
- 2011-Oral 7th International Chemical Engineering Congress & Exhibition (7th ICHECH Conference), Kish, Iran
Pore Network Investigation of Hydrate Dissociation Behavior in Porous Media
▪ Authors: Y. Tamsilian, A. Nejadebrahimi, R. Bozorgmehry, S. Jamshidi
- 2011-Oral 7th International Chemical Engineering Congress & Exhibition (7th ICHECH Conference), Kish, Iran
Investigation of Screw Turning and Barrel Turning Boundaries in Single Screw Extruders by OpenFOAM CFD Software
▪ Authors: Y. Tamsilian, A. Ahmadian, A. Ramazani S.A.
- 2011-Oral European Polymer Federation (EPF), Granada, Spain
Experimental Investigation of Crosslinked Polymer Formulation for Drilling Fluid Approach to Modified Rheological Properties in Carbonate Wells
▪ Authors: Y. Tamsilian, A. Ramazani S.A.
- 2011-Oral European Polymer Federation (EPF), Granada, Spain
Viscoelastic and Generalized Newtonian Fluids Simulation in Single Screw Extruder Using Computational Fluid Dynamic
▪ Authors: Y. Tamsilian, A. Ahmadian, A. Ramazani S.A.
- 2011-Oral Polymer Process Society (PPS-27), Morocco, Maghreb
Realistic Three-Dimensional Flow Simulation of Viscoelastic Fluids in Extruder Using Finite-Volume Method
▪ Authors: Y. Tamsilian, A. Ahmadian, A. Ramazani S.A.
- 2011-Oral Polymer Process Society (PPS-27), Morocco, Maghreb
Simulation of Flow of Three Conformational Rheological Models in Contraction Flows
▪ Authors: Y. Tamsilian, A. Ramazani S.A., A. Behrang
- 2011-Oral 1st Hydrate Conference, Tehran, Iran
Modelling Hydrate Formation Using Irregular Pore Network Model
▪ Authors: A. Nejadebrahimi, R. Bozorgmehty, S. Jamshidi, Y. Tamsilian
- 2011-Oral 1st Hydrate Conference, Tehran, Iran
Novel Cold Flow Hydrate Technology and Comparison of Cooling Processes: Review
▪ Authors: Y. Tamsilian, A. Nejadebrahimi, A. Ramazani S.A.
- 2010-Oral 13th Iranian National Chemical Engineering Congress & 1st International Regional Chemical and Petroleum Engineering, Kermanshah, Iran
New Achievements in Gas Hydrate Storage and Transportation of Natural Gas and Economic Comparison with LNG
▪ Authors: Y. Tamsilian, A. Nejadebrahimi, A. Ramazani S.A.
- 2010-Oral 13th Iranian National Chemical Engineering Congress & 1st International Regional Chemical and Petroleum Engineering, Kermanshah, Iran
Dusty-Gas and Hougen-Watson Methods Application in Modelling and Simulation of Styrene Production Processes
▪ Authors: A. Nejadebrahimi, Y. Tamsilian, A. Ramazani S.A.
- 2010-Oral 3rd International Conference and Exhibition on CNG, Tehran, Iran
Evaluation and Assessment for Natural Gas Hydrate Storage and Transportation Processes
▪ Authors: Y. Tamsilian, A. Nejadebrahimi, A. Ramazani S.A.
- 2010-Oral 1st Symposium of Carbonate Reservoirs, Tehran, Iran

Research and Application of Polymeric Modified Drilling Fluid in Deep Wells

- Authors: Y. Tamsilian, A. Nejadebrahimi, A. Ramazani S.A.

2010-Poster

**2th International Surfactant and Detergent Technology Conference, Tehran, Iran
Polymer-Surfactant Mixture and Interaction between Them**

- Authors: Y. Tamsilian, A. Ahmadian, A. Nejadebrahimi, A. Ramazani S.A.

**OTHER
PROJECTS**Polymers/
Nanomaterial
Production

- Compilation of Technical Knowledge, Synthesis, Production and Field Test of an Artificial/Synthetic Polymer as an Alternative for High Temperature Starch for Use in Water Based Drilling Fluids
- Smart Enhanced Oil Recovery Process using SiO₂ and Thermoviscosifying Polymer Nanofluid
- Enhanced Oil Recovery Process using Graphene Nanoabsorbers
- What Do We Need for a Superhydrophobic Surface? A Review on the Recent Progress in the Wettability Properties of Nanosurfaces
- Compilation of Technical Knowledge, Synthesis, Production and Field Test of Silicate Based Drilling Fluids
- Experimental Study of the Effective Factors on Demulsifiers-Based Separating Water from Crude Oil Extracted from One of the Iranian Southwest Oilfields

Chemical Process
Engineering

- Technical-Economic Feasibility Study of Flare Gas Recovery Unit in Abadan Oil Refinery
- Technical-Economic Feasibility Study of Associated Gas Flare Recovery Process via Amine Treating in Arvandan Oil & Gas Co.
- Technical-Economic Feasibility Study of Flare Gas Recovery System of Imam Khomeini Refinery to Prevent the Waste of Hydrocarbon Gases and Reduce Environmental Pollution
- Technical-Economic Feasibility Study of Gas Flare Recovery to Reuse in Kaveh Methanol Petrochemical Complex
- Performance Comparison of Amine Solvents in Carbon Dioxide Absorption Process of Power Plant to Achieve Maximum Purity to Oilfields
- Simulation and Optimization of Modified Claus Sulfur Recovery unit at Abadan Oil Refinery using Promax Software
- Simulation and Optimization of Sulfur Dioxide Conversion Unit and Hydrogen Sulfide Adsorption Using the SCOT Process of Abadan Oil Refinery
- Technical-Economic Feasibility Study of PRU Upgrading of Abadan oil Refinery for Propylene Production
- Furfural Coke Removal by Dioctyldiphenol Antioxidants in Oil Refineries
- Simulation and Optimization of Centralized Desalting Unit of Ahvaz, Maroun Oil & Gas Field Development
- Realistic Three-Dimensional Flow Simulation of Viscoelastic Fluids in Extruder Using OpenFOAM CFD Software
- Theoretical and Imperial Investigation of Hydrazine Concentration Process by Distillation Method with Sodium Hydroxide

**CERTIFIED
COURSES**

International Section

- Emulsion Polymerization Process, Prof. José M. Asua, Prof. J. C. de la Cal, Prof. M. J. Barandiaran, Prof. M. Paulis, Prof. J. R. Leiza from POYMAT, J. Ramos and J. Forcada from Imperial College London, E. Bourgeat-Lami and F. D'Agosto from Université Claude Bernard Lyon
- Basic Concepts of Modeling in Organocatalyzed Polymerizations, Prof. E. Gomez Bengoa, Dr. A. de Cózar, Dr. F. Ruipérez, and Dr. Rezabal from the University of the Basque Country
- Graphene, Prof. Andre Geim from University of Manchester & Sharif University of Technology
- Rheological and Scattering Techniques in the Study of Specially Designed Aqueous Polymer Systems, Prof. Bo Nystrom from University of Oslo & Sharif University of Technology
- Design of Experiments (DOE), TUV Intercert Co.
- Oil, Gas and Petroleum Standard TS/29001, TUV Rheinland Co.

Academic Section

- Comfar III Software, Oil Design & Construction Co.
- Advanced HYSYS Software, Jahad Daneshgai Institute

Industrial Section

- Introductory HYSYS Software, Behingostar Sepehr Co.
- MATLAB Software, Behingostar Sepehr Co.
- Centrifugal & Reciprocating Pumps, Distillation Towers, Steam Gas Turbine, Storage Tank, Valve Type, Heat Exchanger Types & Maintenance, Glass Reinforced Plastic (GRP) Pipes, South Pars Gas Development
- PFD and P&ID Drawing Course, South Pars Gas Development
- Plant Design Management System (PDMS Software), South Pars Gas Development
- Gas Testing (GT), Electrical Isolation of Equipment, Permit To Work (PTW), Process/Mechanical Isolation of Equipment, Confined Spaces Entry Hazards, H₂S, South Pars Gas Development
- Radiography Test (RT), South Pars Gas Development
- HSE, South Pars Gas Development
- Professional Hydraulic and Electro-hydraulic Repairer, Technical and Vocational Training Center
- Professional Pneumatic and Electro-pneumatic Repairer, Technical and Vocational Training Center
- Welding Inspection (Level 3), Minister of Industry, Mine & Trade
- Petrochemical & Refinery Equipment Design, Jahad Daneshgahi Institute
- HSE Principles, Behin Esfahan Co., Abadan Oil Refinery

HONORS & AWARDS

Academic & Research Section

- Organizing Committee and Invited Speaker in Nanotechnology Conference Osaka 2018 (<https://www.citationsinternational.com/nanotechnology-conference-osaka-2018/organizing>)
- Invited Reviewer in Industrial & Engineering Chemistry Research (2 Papers), Brazilian Journal of Petroleum and Gas (1 Paper), Chemical Engineering Communications Journal (1 Paper), Sharif Magazine (www.press.sharif.ir), Petroleum Research Journal (RIPI) (3 Papers), Journal of Applied Polymer Science (11 Papers), Petroleum Science and Technology Journal (4 Papers), Polymer Engineering and Science Journal (2 Papers), Fuel & Combustion Journal (11 papers)
- Pre-screener, Reviewer, and Organizing Committee in 5th International on Nanostructures (ICNS5)
- Organizing Committee in the 14th Iranian National Chemical Engineering Congress (IChEC2014)
- 4th Regional Exhibition of Innovation and Invention, Bonyad-e-Meli Nokhbegan (BMN)
- Faculty Member and Training Instructor in Sharif Computational Fluid Dynamics Center (SCFDC)
- Training Instructor in Center of Excellence in Aerospace Systems (CEAS)
- National Association of Genius, Bonyad-E-Meli Nokhbegan (BMN)
- Exceptional Talents Award, Exceptional Talents Office, Sharif University of Technology
- Promising M.Sc. Thesis in 5th Festival & Exhibition of Nanotechnology
- Top Oral Presentation in ICNS5 to Publish in Scientia Iranica Journal
- Top Ranking among Ph.D. Students of Chemical Engineering Group (Nanoscience and Nanotechnology) (GPA: 18.76 out of 20)
- 1st Rank among M.Sc. Students of Polymer Engineering Group (GPA: 17.77 out of 20)
- 1st Rank among B.Sc. Students of Chemical Engineering Group (GPA: 17.69 out of 20)
- Rank 61 in M.Sc. Chemical Engineering Major, the Nationwide University Entrance Exam
- Rank 13 in M.Sc. Gas Production and Transportation Engineering Major, the Nationwide University Entrance Exam
- 1st Rank among High-school Students of Mathematics & Physics Group (GPA: 17.96 out of 20)

PERSONAL SKILLS

Mother tongue(s)

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
Persian					
English Language	Intermediate	Excellent	Good	Good	Excellent
Language Certificate: IBT TOEFL SCORE: Listening 23, Speaking 25, Reading 26, Writing 27					

Professional Profile

Job-related Interests

- Willing to be part of a dynamic professional occupational system related to polymer/nanomaterial production and chemical process.

Communication skills

- Having research-industrial attitude about the problem.
- Motivated self-starter, eager to meet challenges and quickly assimilate newest and latest technologies, ideas.

Managerial skills
Computer skills

- Enthusiastic, fast learner who can rapidly master all aspects of problems with limited training.
- Highly flexible and adaptable; able to multi-task and thrive in a fast-paced environment.
- Good communication skills gained through the experiences in academic and industrial atmosphere.
- Creative trouble-shooter and problem-solver that works hard and loves challenges.
- Faithful friend and hardworking characteristic in some cases which happen.
- Culturally literate with exceptional team-building and interpersonal skills.
- Leadership in responsible for a team of 10-20 people as Project Engineering Manager in the projects
- Good command of MATLAB, Mathcad, Fortran (Computer Programming Language);
- Good command of Aspen-HYSYS, PetroSim, Design-Expert, Design-Expert (Chemical Engineering);
- Good command of ChemsSketch, CrystalMaker, Ascalaph, Material Studio (MD & Material Structure Engineering);
- Good command of Automation Studio (Hydraulic & Pneumatic Simulation);
- Good command of MS.Project, Comfar (Planning & Economic Analysis);
- Good command of OpenFOAM (CFD Software);
- Good command of PDMS (Piping Software);
- Good command of Microsoft Office™ tools, Endnote, Visio
- Good command of NMR, FITR, UV/Vis, TGA, DSC, Spectrophotometer, SEM, TEM, DLS/SLS, XRD, SAXS, Rheometer, Contact Angle, Interfacial Tension, Oil Micromodel/Sand Pack/Core Flooding, Spontaneous Imbibition (Chemical Characterization);
- Good command of Oil Micromodel/Sand Pack/Core Flooding, Spontaneous Imbibition (Applied Analyses);

Other Interests

- Soccer, people, poet, writing, reading

REFERENCES

Ahmad Ramazani S.A., Professor

Department of Petroleum & Chemical Engineering
Sharif University of Technology, Tehran, Iran
Phone: +98 912 379 9565, +98 21 6616 6405
Email: ramazani@sharif.edu

Shahab Ayatollahi, Professor

Department of Petroleum & Chemical Engineering
Sharif University of Technology, Tehran, Iran
Phone: +98 917 118 4379, +98 21 6616 6411
Email: shahab@sharif.edu

Azam Iraj Zad, Professor

Institute for Nanoscience and Nanotechnology
Sharif University of Technology, Tehran, Iran
Phone: +98 912 130 2808, +98 21 6616 4513
Email: iraji@sharif.edu

Abolfazl Barati, Associate Professor

Department of Chemical Engineering
Arak University, Arak, Iran
Phone: +98 912 261 6920
Email: a.barati@arak.au.ac

James Sheng, Associate Professor

Bob L. Herd department of Petroleum Engineering
Texas Tech University, USA
Phone: +1 806 834 8477
Email: james.sheng@ttu.edu

Jose Carlos de la Cal, Professor

Institute for Polymer Material POLYMAT,
Universidad del País Vasco/Euskal Herriko Unibertsitatea (UPV-EHU), Spain
Phone: +34 943 054 639
Email: jcdelacal@ehu.es

Radmila Tomovska, Professor

Institute for Polymer Material POLYMAT,
Universidad del País Vasco/Euskal Herriko Unibertsitatea (UPV-EHU), Spain
Phone: +34 943 018 482
Email: radmila.tomovska@ehu.es

Asadollah Mikaeili

National Iranian Oil Refining & Distribution Co., Member of Board, Tehran, Iran
Oil Design & Construction Co., Engineering Director, Tehran, Iran
Phone: +98 912 401 0698, +98 21 2714 5510
Email: a.mikaeili@odcc.ir