

PERSONAL DETAILS:

Professor Shohreh Fatemi

Faculty Member, School of Chemical Engineering,
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ACADEMIC QUALIFICATIONS:

Doctor of Philosophy (Ph.D.):

Field & University: Chemical Engineering, Faculty of Engineering, University of Tehran, Tehran, Iran

Year of Graduation: 2001

Thesis Title: Investigation and Determination of Effective Parameters on Deactivation and Kinetics of Gas oil Hydro-desulfurization Catalysts

Research Opportunity: University of Waterloo, Waterloo, Ontario, Canada, 1999-2000

Master of Science (M.Sc.):

Field & University: Chemical Engineering, Faculty of Engineering, University of Tehran, Tehran, Iran

Year of Graduation: 1994

Thesis Title: Determination of Equilibrium Parameters and Modeling of Multi-component Adsorption Process for Separation of n-paraffins from iso-paraffins by 5A Molecular Sieves

Bachelor of Science (B.Sc.):

Field & University: Chemical & Petrochemical Engineering, Amirkabir University of Technology, Tehran, Iran

Thesis Title: Study and Design of Sulfonation Process for Separation of Aromatics from Oil Fractions

INTERESTED RESEARCHES:

- Mathematical Modeling of Catalytic Reactions in Gas and Oil Processes.
- Mathematical Modeling and Simulation of Adsorption Processes.
- Synthesis of Nano Materials and Application in Catalytic and Adsorption Processes.

- Application of Supercritical CO₂ in Preparation Pharmaceutical Materials and Nano Particles.
- Synthesis and Application of Photo Catalysts in Energy and Environment.
- Membrane and Hydrogen Purification Processes.

TEACHING EXPERIENCES:

- Application of Mathematics in Chemical Engineering
- Advanced Engineering Mathematics
- Kinetics and Chemical Reactor Design
- Adsorption Processes
- Applied Statistics and Experimental Design

SCIENTIFIC EXECUTIVE EXPERIENCES:

- Membership in Editorial Board of Journal of Faculty of Engineering, University of Tehran.
- Vice Chancellor of Educational Affairs in BSc Program, School of Chemical Engineering, University of Tehran, 2003-2006.
- Head of Computer Center, School of Chemical Engineering, University of Tehran, 2006-2014.
- Head of Process Design Branch, School of Chemical Engineering, University of Tehran, 2012-2014.
- Supervisory Control of Research Projects; "Production and Application of Nanomaterials in Petroleum" Carried by Research Institute of Petroleum Industry.

AWARD AND ACHIEVEMENTS:

- The Distinguished Applicable Project in 24th Research Festival 2015, University of Tehran.
- The Distinguished Researcher in 23rd Research Festival 2014, University of Tehran.
- The District Researcher in 19th Research Festival 2010, University of Tehran.
- The District Research Project Applied in 18th Research Festival 2009, University of Tehran, Subjected by: "Investigation of Nano-Structured Carbon Materials for Capturing and Storage of Natural Gas".
- Award of Prevalent Advisory of the Research Projects in Research Institute of Petroleum Industry in 2008.
- Award of the first Top Graduated Student of M.Sc. Chemical Engineering in Faculty of Engineering, University of Tehran.

INDUSTRIAL PROJECTS:

- “Control Modeling of Cyclic Pressure Swing Adsorption for Separation of He from Natural Gas”, *National Iranian Gas Company (NIGC)*, 2016.
- “Simulation of Separation and Purification of He from Natural Gas by Cyclic Pressure Swing Adsorption”, *National Iranian Gas Company (NIGC)*, 2016.
- “Design and Simulation of a Cyclic Temperature Adsorption Process for Separation of Gas condensate from Natural Gas”, *Persian Gas Company*, 2016.
- “Simulation Study of CO₂-H₂O Co-adsorption in Natural Gas Dehumidification Process in Refinery by 4A Molecular Sieve and Suggestions”, *Persian Gas Company*, 2016.
- “Study and Modeling the Zeolitic Membrane behavior for Light Gases Separation (Carbon Dioxide from Natural Gas)”, *National Iranian Gas Company (NIGC)*, 2013.
- “Fabrication and Modification of ZSM-5 Nano-structured Zeolite for the Process of Dehydrogenation of Propane”, *Iran National Science Foundation (INSF)*, 2013.
- “Modeling and Simulation Software Package for Liquid and Gas Adsorption Processes”, *Vice Chancellor for Research, Faculty of Engineering, University of Tehran*, 2013.
- “Technical Knowledge for Production of Photocatalytic Papers from Enhanced TiO₂ for Reduction of Environmental Pollutants”, *Ministry of Industry, Mine and Trade*, 2012.
- “Modeling and Dynamic Simulation of the Industrial Hydro-treating Process of Oil Cuts in Trickle bed Reactors and Optimization of the Operational Conditions to Minimize the Outlet Sulfur Concentration”, *National Iranian Oil Refining & Distribution Company (NIORDC)*, 2011.
- “Mathematical Modeling and Simulation of Cyclic Pressure Swing Adsorption Process for Purification of Hydrogen from the Reforming Process gaseous Products”, *National Iranian Oil Refining & Distribution Company (NIORDC)*, 2011.
- “Fabrication of Tubular Membrane from Silico-Aluminophosphate Structures and Application Study for Light Gaseous Mixtures”, *Ministry of Industry, Mine and Trade*, 2011.
- “Synthesis and Characterization of Silico-Aluminophosphate Molecular Sieve”, *Iran National Science Foundation (INSF)*, 2011.
- “Investigation of Separation outlet Gases from OCM Reaction by Molecular Sieves for Yield Enhancement of C₂ Products”, *Petrochemical Research and Technology Company*, 2009.

- “Mathematical Modeling and Simulation of Absorption Process for Separation of the outlet Gases from the OCM Reaction by Molecular Sieves”, *Petrochemical Research and Technology Company*, 2009.
- “Investigation of Adsorption Capacity and Storage of Natural Gas (Methane) in Carbon Nano-structured Materials”, *National Iranian Gas Company (NIGC)*, 2007.
- “Production of Water-Based Traffic Paint applied for Intermediate Climates”, *Industrial Development and Renovation Organization of Iran (IDRO)*, 2006.
- “Investigation of Separation of Zirconium and Hafnium Cations by Ion Exchange Chromatographic Method”, *Iran National Science Foundation (INSF)*, 2006.

NUMERICAL MODELING PACKAGES:

- Modeling of Dehumidification of the Gases by Adsorption.
- Molecular Modeling of Gas Adsorption on Porous Materials.
- Kinetic Modeling of Methanol to Light Olefins.
- Simulation of the Cyclic Adsorption Processes (PSA, VSA and TSA) for Gas Separation and Purification.
- Numerical Simulation of Commercial Natural Gas Dehydration Process established in Parsian Gas Refinery.
- Kinetic Modeling of Benzene Alkylation Process to Achieve Alkyl Aromatics in Presence of Heterogenous Zeolytic Catalysts.
- Dynamic Modeling of Nano Carbon Adsorption Beds for Adsorption and Separation of Gaseous Pollutants from Synthesis Gas.
- Modeling and Simulation of Claus Sulfur Recovery Unit.
- CFD Modeling of the Packed bed Reactors for CO₂ Adsorption from Natural Gas by Molecular Sieves.
- CFD Modeling of the Spouted bed Reactors for VOC Removal by Nano Photocatalytic TiO₂ Particles.
- Kinetic Modeling of PDH (Propane Dehydrogenation) Reaction on Modified SAPO-34.

- Mathematical Modeling of Oxidative Propane Dehydrogenation Process in the Side Feeding Reactors.
- Gibbs-Excess Thermodynamic Modeling of Gaseous Mixture Adsorption on Nano Adsorbents.
- Kinetic Modeling of VOC Photocatalytic Reactions on Nano Titania.
- Modeling and Optimization of Dynamic Adsorption Process by Core-shell Adsorbents for Separation of Light Gases.
- Modeling and Simulation of Temperature-Pressure Swing Adsorption Process for Enrichment of Methane in Natural Gas by Zeolitic Adsorbents.
- Modeling and Simulation of Hydro desulfurization Process of Diesel in Commercial Trickle Bed Reactor.
- Modeling and Simulation of Pressure Swing Adsorption of Commercial Process for Hydrogen Purification (Separation from Syngas-Naphtha Reforming outlet Gas).
- Modeling and Simulation of Methane Steam Reforming and Dry Steam Reforming in Fixed Bed Reactors, Membrane Reactors and Fluidized Bed Reactors.
- Modeling and Simulation of Naphtha Reforming of Commercial Processes (Semi-regenerative and Continuous Catalytic Regeneration).
- Kinetic Modeling of Methanol to Olefins Process by Silico-Aluminophosphate-34 Catalyst.
- Kinetic Modeling of Heavy Oil Hydro-cracking Reaction in Catalytic Packed Bed Reactors.
- Modeling and Simulation of Pressure Swing Adsorption and Temperature Swing Adsorption Process for Separation of Methane from Ethane and Ethylene Mixture.
- Modeling and Simulation of Fischer-Tropsch Reaction of Syngas in Bubble Slurry Reactors.
- Modeling and Simulation of Multi-component Dynamic Adsorption Process for Separation of Gases and Liquids.
- Mathematical Modeling of Essential Oil Extraction from Pharmaceutical Plants by Supercritical Extraction.

PUBLICATION (BOOK):

- Shohreh Fatemi, "Application of Statistics and Design of Experiments in Science and Engineering", ISBN: 978-964-036-973-9, University of Tehran Press, 2017.
- Shohreh Fatemi, "Application of Numerical Methods in Chemical Engineering", ISBN: 978-600-307-026-4, Second Edition, Kian Press, 2014.
- Shohreh Fatemi, "Mathematical Modeling in Chemical Engineering", ISBN: 978-964-03-5983-9, Fourth Edition, University of Tehran Press, 2012.

PATENTS:

- Fatemi, Shohreh; "Construction of Photocatalytic Fluidized Bed with Modified Nano TiO₂ Particles".
- Fatemi, Shohreh; Bigdeli, Soheila; "Fabrication of Carbon Nanofibers on the base of Activated Carbon Using the New Method of Chemical Vapor Deposition Assisted by Microwave Radiation".
- Fatemi, Shohreh; Davoodpour, Mahdi; Jabbari, Zeinab; "Synthesis of Tubular Membrane from Zeotype SAPO-34 Nanostructures Applied in Light Gases Separation".
- Fatemi, Shohreh; Doroudian Rad, Mina; Salmasi, Maede; Jadidi, Farhad; "Fabrication of T type Zeolite Molecular Sieve to be investigated in Adsorption and Separation of the Light Gases".
- Fatemi, Shohreh; Salmasi, Maede; Doroudian Rad, Mina; Taheri Najafabadi, Ali; Emrani, Peyman; "Fabrication and Modification of SAPO-34 Molecular Sieve Catalyst to Produce Olefins and Efficiency Enhancement of Methanol to the Light Olefins Process".
- Fatemi, Shohreh; Ashraf Talesh, S.Siamak; Emrani, Peyman; Hashemi, S.Jalal; Salmasi, Maede; "Synthesis of Zeotype Fine Particles and Layer Formation on Ceramic Supports for Enrichment of Methane by Adsorption Process".

ISI PUBLICATION (PAPERS): FROM 2003

- Rezvani, Hadi; Fatemi, Shohreh; "Influence of Water Vapor Condensation Inside Nano-Porous 4A Adsorbent in Adsorption-Desorption Cyclic Process of Natural Gas Dehydration", **Sep. Sci. and Tech.**, 2019.
- Malekmohammadi, Meisam; Fatemi, Shohreh; Razavian, Marjan; Nouralishahi, Amideddin; "A Comparative Study on ZIF-8 Synthesis in Aqueous and Methanolic Solutions: Effect of Temperature and Ligand Content", **Solid State Sciences**, Vol. 91, 108-112, 2019.
- Rezvani, Hadi; Fatemi, Shohreh; Tamnanloo, Javad; " Activated Carbon Surface Modification by Catalytic Chemical Vapor Deposition of Natural Gas for Enhancing Adsorption of Greenhouse Gases", **J. of Env. Chem. Eng.**, Vol. 7, Issue 3, 103085, 2019.
- Abdoli, Yekta; Fatemi, Shohreh; Razavian, Marjan; "Bimetallic Ni–Co-Based Metal–Organic Framework: An Open Metal Site Adsorbent for Enhancing CO₂ Capture", **Applied Organometallic Chemistry**, Vol. 33, Issue 8, 2019.
- Paknameh, Navid; Fatemi, Shohreh; Razavian, Marjan; "EPD Method of Seeding Nano ZnO Followed by CVD of Organo-Linker; A Step by Step Method for Synthesis of ZIF-8 Thin Layer on Tubular α -alumina", **Mat. Chem. and Phys.**, Vol. 235, 131764, 2019.
- Talatori, Fatemeh Sadat; Fatemi, Shohreh; Nouralishahi, Amideddin; "Impact of Butanol and Ammonium Fluoride on Synthesizing and Optical Properties of N-Doped-Carbon Dots", **Solid State Sciences**, Vol. 97, 105988, 2019.
- Eghbal Jahromi, Parisa; Fatemi, Shohreh; Vatani, Ali; "Effective Design of a Vacuum Pressure Swing Adsorption Process to Recover Dilute Helium from a Natural Gas Source in a Methane-Rich Mixture with Nitrogen", **Ind. Eng. Chem. Res.**, Vol. 57, Issue 38, 12895–12908, 2018.
- Vahidzadeh, Ehsan; Fatemi, Shohre; Nouralishahib, Amideddin; "Synthesis of a Nitrogen-Doped Titanium Dioxide–reduced Graphene Oxide Nanocomposite for Photocatalysis under Visible Light Irradiation", **Particuology**, Vol. 41, 48–57, 2018.
- Hosseinpoura, Morteza; Fatemi, Shohreh; Ahmadi, Seyed Javad; Oshima, Yoshito; Morimoto, Masato; Akizukib, Makoto; "Isotope Tracing Study on Hydrogen Donating Capability of Supercritical Water Assisted by Formic Acid to Upgrade Heavy Oil: Computer Simulation vs. Experiment", **Fuel**, Vol. 225, 161–173, 2018.
- Hosseinpoura, Morteza; Fatemi, Shohreh; Ahmadi, Seyed Javad; Morimoto, Masato; Akizukib, Makoto; Oshima, Yoshito; Fumoto, Eri; " The Synergistic Effect between Supercritical Water and Redox Properties of Iron Oxide Nanoparticles During In-Situ Catalytic Upgrading of Heavy Oil with Formic Acid. Isotopic Study", **Applied Catalysis B: Environmental**, Vol. 230, 91–101, 2018.
- Eghbal Jahromi, Parisa; Fatemi, Shohreh; Vatani, Ali; A.Ritter, James; D.Ebner, Armin; "Purification of Helium from A Cryogenic Natural Gas Nitrogen Rejection Unit by Pressure Swing Adsorption", **Sep. and Purif. Tech.**, Vol. 193, 91–102, 2018.

- Mousavi, Seyed Hesam; Fatemi, Shohreh; Razavian, Marjan; "Synthesis and Stability Evaluation of Hierarchical Silicoaluminophosphates with Different Structural Frameworks in the Methanol to Olefins Process", **Particuology**, Vol. 37, 43–53, 2018.
- Fakhroleslam, Mohammad; Fatemi, Shohreh; Bozorgmehry Boozarjomehry, Ramin; De Santis, Elena; Domenica Di Benedettoc, Maria; Polac, Giordano ; "Maximal safe set computation for pressure swing adsorption processes", **Computers & Chem. Eng.**, Vol. 109, 179–190, 2018.
- Fakhroleslam, Mohammad; Bozorgmehry Boozarjomehry, Ramin; Fatemi, Shohreh; Fiore, Gabriella; "Dynamical Hybrid Observer for Pressure Swing Adsorption Processes", **IFAC-PapersOnLine**, Vol. 50, Issue 1, 10196–10201, 2017.
- Fakhroleslam, Mohammad; Bozorgmehry Boozarjomehry, Ramin; Fatemi, Shohreh; "Design of a Dynamical Hybrid Observer for Pressure Swing Adsorption Processes", **Int. J. of Hydrogen Energy**, Vol. 42, Issue 33, 21027–21039, 2017.
- Ebrahimi, Akram; Fatemi, Shohreh; "Titania-Reduced Graphene Oxide Nanocomposite as a Promising Visible Light-active Photocatalyst for Continuous Degradation of VVOC in Air Purification Process", **Clean Tech. and Env. Policy**, Vol. 19, 2089–2098, 2017.
- Mousavi, Seyed Hesam; Fatemi, Shohreh; Razavian, Marjan; "Kinetic Modeling of the Methanol to Olefins Process in the Presence of Hierarchical SAPO-34 Catalyst: Parameter Estimation, Effect of Reaction Conditions and Lifetime Prediction", **Reaction Kinetics, Mechanisms and Catalysis**, Vol. 122, 1245–1264, 2017.
- Komasi, Milad; Fatemi, Shohreh; Mousavi, Seyed Hesam; "Kinetic Modelling of Propane Dehydrogenation over a Pt–Sn/hierarchical SAPO-34 Zeolite Catalyst, including Catalyst Deactivation", **Reaction Kinetics and Mechanism**, Vol. 42, 344–360, 2017.
- Mansoubi, Hadi; Mansourpour, Zahra; Fatemi, Shohre; "High Photocatalytic Efficiency of Spouting Reactor Compared with Fluidized Bed with Top Irradiation Source", **Particuology**, Vol. 33, 123–128, 2017.
- Golmakani, Ayub; Fatemi, Shohreh; Tamnanloo, Javad; "Investigating PSA, VSA, and TSA Methods in SMR Unit of Refineries for Hydrogen Production with Fuel Cell Specification", **Sep. and Pur. Tech.**, Vol. 176, 73–91, 2017.
- Fakhroleslam, Mohammad; Fatemi, Shohreh; Bozorgmehry Boozarjomehry, Ramin; "A Switching Decentralized and Distributed Extended Kalman Filter for Pressure Swing Adsorption Processes", **Int. J. of Hydrogen Energy**, Vol. 41, Issue 48, 23042–23056, 2016.
- Mansoubi, Hadi; Fatemi, Shohre; Mansourpour, Zahra; "An Efficient Photo-Catalytic VOC Removal Process by One-pot Synthesized N-F/TiO₂ Nanoparticles in Fluidized-Spouted Bed Reactor", **Particulate Science and Technology**, Vol. 123, No. 345, 1-10, 2016.
- Khalilzadeh, Alireza; Fatemi, Shohreh; "Spouted bed Reactor for VOC Removal by Modified Nano-TiO₂ Photocatalytic Particles", **Chem. Eng. Res. and Design**, Vol. 115, 241–250, 2016.

- Fakhroleslam, Mohammad; Fatemi, Shohreh; "Comparative Simulation Study of PSA, VSA, and TSA Processes for Purification of Methane from CO₂ via SAPO-34 Core-Shell Adsorbent", **Sep. Sci. and Tech.**, Vol. 51, Issue 14, 2326–2338, 2016.
- Banitaba, Fatemeh Sadat; Mansourpour, Zahra; Fatemi, Shohreh; "Combination of Adsorption-Diffusion Model with Computational Fluid Dynamics for Simulation of a Tubular Membrane Made from SAPO-34 Thin Layer Supported by Stainless Steel for Separation of CO₂ from CH₄", **J. of Memb. And Sep. Tech.**, Vol. 5, 16–24, 2016.
- Golmakani, Ayub; Fatemi, Shohreh; Tamnanloo, Javad; "CO₂ Capture from the Tail Gas of Hydrogen Purification Unit by Vacuum Swing Adsorption Process, Using SAPO-34", **Ind. Eng. Chem. Res.**, Vol. 55, 334–350, 2016.
- Esmaeilian Tari, Nesa; Tadjarodi, Azadeh; Tamnanloo, Javad; Fatemi, Shohreh; "One Pot Microwave Synthesis of MCM-41/Cu Based MOF Composite with Improved CO₂ Adsorption and Selectivity", **Microporous and Mesoporous Materials**, Vol. 231, 154–162, 2016.
- Hosseinpour, Morteza; Fatemi, Shohreh; Ahmadi, Seyed Javad; "Deuterium Tracing Study of Unsaturated Aliphatics Hydrogenation by Supercritical Water in Upgrading Heavy Oil. Part II: Hydrogen Donating Capacity of Water in the Presence of Iron (III) Oxide Nanocatalyst", **J. of Supercritical Fluids**, Vol. 110, 75–82, 2016.
- Seif, Shayan; Fatemi, Shohreh; Tavakoli, Omid; Bahmanyar, Hossein; "Hydrogen Production Through Hydrothermal Gasification of Industrial Wastewaters Using Transition Metal Oxide Catalysts", **J. of Supercritical Fluids**, Vol. 114, 32-45, 2016.
- Salmasi, Maede; Fatemi, Shohreh; Mortazavi, Yadollah; "Fabrication of Promoted TiO₂ Nanotubes with Superior Catalytic Activity against TiO₂ Nanoparticles as the Catalyst of Oxidation-Desulfurization Process", **J. of Ind. and Eng. Chem.**, Vol. 39, 66-76, 2016.
- Esmaeilian Tari, Nesa; Tadjarodi, Azadeh; Tamnanloo, Javad; Fatemi, Shohreh; "Synthesis and Property Modification of MCM-41 Composed with Cu (BDC) MOF for Improvement of CO₂ Adsorption Selectivity", **J. of CO₂ Utilization**, Vol. 14, 126–134, 2016.
- Hosseinpour, Morteza; Ahmadi, Seyed Javad; Fatemi, Shohreh; "Deuterium Tracing Study of Unsaturated Aliphatics Hydrogenation Bysupercritical Water in Upgrading Heavy Oil. Part I: Non-Catalytic Cracking", **J. of Supercritical Fluids**, Vol. 107, 278–285, 2016.
- Esmaeilian Tari, Nesa; Tadjarodi, Azadeh; Tamnanloo, Javad; Fatemi, Shohreh; "Facile and Fast, One Pot Microwave Synthesis of Metal Organic Framework Copper Terephthalate and Study CO₂ and CH₄ Adsorption on it", **J. of Porous Materials**, Vol. 22, Issue 5, 1161–1169, 2015.
- Razavian, Marjan; Fatemi, Shohreh; "Synthesis and Evaluation of Seed-directed Hierarchical ZSM-5 Catalytic Supports: Inductive Influence of Various Seeds and Aluminosilicate Gels on the Physicochemical Properties and Catalytic Dehydrogenative Behavior", **Materials Chemistry and Physics**, Vol. 165, 55–65, 2015.

- Hosseinpour, Morteza; Fatemi, Shohreh; Ahmadi, Seyed Javad; "Cracking of Petroleum Vacuum Residue in Supercritical Water Media: Impact of α -Fe₂O₃ in the form of Free Nanoparticles and Silica-Supported Granules", **Fuel**, Vol. 159, 538-549, 2015.
- Sherafatmand, Khadijeh; Fatemi, Shohreh; Salehi, Zeinab; "Kinetic Study of Acetaldehyde Conversion to Ethanol by Free and CNT-Immobilized Baker's Yeast in a Gas-Phase Packed Bed Reactor", **J. of Ind. and Eng. Chem.**, Vol. 30, 160–166, 2015.
- Javanmardi Nabikandi, Nader; Fatemi, Shohreh; "Kinetic Modeling of a Commercial Sulfur Recovery Unit Based on Claus Straight through Process; Comparison with Equilibrium Model", **J. of Ind. and Eng. Chem.**, Vol. 30, 50–63, 2015.
- Tohidi, Zahra; Fatemi, Shohreh; Taheri Qazvini, Omid; "Mercaptan Removal from Natural Gas by the Efficient Cyclic Adsorption Process; a Simulation Study", **J. of Natural Gas Sci. and Eng.**, Vol. 26, 758–769, 2015.
- Seif, Shayan; Tavakoli, Omid; Fatemi, Shohreh; Bahmanyar, Hossein; "Subcritical Water Gasification of Beet-based Distillery Wastewater for Hydrogen Production", **J. of Supercritical Fluids**, Vol. 104, 212-220, 2015.
- Soroodan Miandoab, Ehsan; Fatemi, Shohreh; "Upgrading TiO₂ Photoactivity under Visible Light by Synthesis of MWCNT/TiO₂ Nanocomposite", **Int. J. Nanosci. Nanotechnol.**, Vol. 11, No. 1, 1–12, 2015.
- Masoudi-Nejad, Mojtaba; Fatemi, Shohreh; Joda, Marzieh; "CH₄, C₂H₆, and C₂H₄ Phase Equilibria on SAPO-34 Using the Vacancy Solution Theory", **Separation Science and Technology**, Vol. 50, 1629–1640, 2015.
- Komasi, Milad; Fatemi, Shohreh; Razavian, Marjan; "Hierarchical SAPO-34 Catalytic Support for Superior Selectivity toward Propylene in Propane Dehydrogenation Process", **Korean J. Chem. Eng.**, Vol. 32, Issue 7, 1289–1296, 2015.
- Hosseinpour, Morteza; Ahmadi, Seyed Javad; Fatemi, Shohreh; "Successive Co-operation of Supercritical Water and Silica-supported Iron Oxide Nanoparticles in Upgrading of Heavy Petroleum Residue: Suppression of Coke Deposition over Catalyst", **J. of Supercritical Fluids**, Vol. 100, 70–78, 2015.
- Bigdeli, Soheila; Fatemi, Shohreh; "Fast Carbon Nanofiber Growth on the Surface of Activated Carbon by Microwave Irradiation: A Modified Nano-adsorbent for Deep Desulfurization of Liquid Fuels", **Chem. Eng. J.**, Vol. 269, 306-315, 2015.
- Razavian, Marjan; Fatemi, Shohreh; Komasi, Milad; "Seed-assisted OSDA-free Synthesis of ZSM-5 Zeolite and its Application in Dehydrogenation of Propane", **Materials Research Bulletin**, Vol. 65, 253–259, 2015.
- Taheri Qazvini, Omid; Fatemi, Shohreh; "Modeling and Simulation of Pressure-Temperature Swing Adsorption Process to Remove Mercaptan from Humid Natural Gas; A Commercial Case Study", **Separation and Purification Technology**, Vol. 139, 88-103, 2015.

- Razavian, Marjan; Fatemi, Shohreh; "Synthesis and Application of ZSM-5/SAPO-34 and SAPO-34/ZSM-5 Composite Systems for Propylene Yield Enhancement in Propane Dehydrogenation Process", **Microporous and Mesoporous Materials**, Vol. 201, 176–189, 2015.
- Shahkarami, Pirouz; Fatemi, Shohreh; "Mathematical Modeling and Optimization of Combined Steam and Dry Reforming of Methane Process in Catalytic Fluidized Bed Membrane Reactor", **Chem. Eng. Comm.**, Vol. 202, Issue 6, 774–786, 2015.
- Tamnanloo, Javad; Fatemi, Shohreh; Golmakani, Ayub; "Binary Equilibrium Adsorption Data and Comparison of Zeolites with Activated Carbon for Selective Adsorption of CO₂ from CH₄", **Adsorption Science & Technology**, Vol. 32, No. 9, 707–716, 2014.
- Razavian, Marjan; Fatemi, Shohreh; "Fabrication of SAPO-34 with Tuned Mesopore Structure", **Z. Anorg. Allg. Chem.**, Vol. 640, Issue 10, 1855–1859, 2014.
- Ahmad Beigi, Atefe; Fatemi, Shohreh; Salehi, Zeinab; "Synthesis of Nanocomposite CdS/TiO₂ and Investigation of its Photocatalytic Activity for CO₂ Reduction to CO and CH₄ under Visible Light Irradiation", **J. of CO₂ Utilization**, Vol. 7, 23-29, 2014.
- Razavian, Marjan; Fatemi, Shohreh; Masoudi-Nejad, Mojtaba; "A Comparative Study of CO₂ and CH₄ Adsorption on Silicalite-1 Fabricated by Sonication and Conventional Method", **Adsorption Sci. and Tech.**, Vol. 32, No. 1, 73-87, 2014.
- Taghavi, Behnam; Fatemi, Shohreh; "Modeling and Application of Response Surface Methodology in Optimization of a Commercial Continuous Catalytic Reforming Process", **Chem. Eng. Comm.**, Vol. 201, Issue 2, 171-190, 2014.
- Mahzoon, Saeed; Fatemi, Shohreh; "Developed Mathematical Model for SAPO-34 Core-Shell Adsorbents in the Adsorption Process of CO₂ from Natural Gas", **Sep. Sci. and Tech.**, Vol. 49, Issue 1, 55-67, 2014.
- Masoudi-Nejad, Mojtaba; Fatemi, Shohreh; "Thermodynamic Adsorption Data of CH₄, C₂H₆, C₂H₄ as the OCM Process Hydrocarbons on SAPO-34 Molecular Sieve", **J. of Ind. & Eng. Chem.**, Vol. 20, Issue 6, 4045-4053, 2014.
- Jabbari, Zeinab; Fatemi, Shohreh; Davoodpour, Mahdi; "Comparative Study of Seeding Methods; Dip-coating, Rubbing and EPD, in SAPO-34 Thin Film Fabrication", **Advanced Powder Technology**, Vol. 25, Issue 1, 321-330, 2014.
- Khalilzadeh, Alireza; Fatemi, Shohreh; "Modification of Nano-TiO₂ by Doping with Nitrogen and Fluorine and Study Acetaldehyde Removal under Visible Light Irradiation", **Clean Tech. Environ. Policy**, Vol. 16, Issue 3, 629-636, 2014.
- Seyed Hosseini, Nekoo; Fatemi, Shohreh; "Experimental Study and Adsorption Modeling of COD Reduction by Activated Carbon for Wastewater Treatment of Oil Refinery", **Iran J. Chem. Chem. Eng.**, Vol. 32, No. 3, 81-89, 2013.

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- Ramezani Moghaddam, Mohammad; Fatemi, Shohreh; Keshtkar, Alireza; "Adsorption of Lead (Pb²⁺) and Uranium (UO₂²⁺) Cations by Brown Algae; Experimental and Thermodynamic Modeling", **Chem. Eng. J.**, Vol. 231, 294-303, 2013.
- Izadyar, Soheila; Fatemi, Shohreh; "Fabrication of X Zeolite-Based Modified Nano TiO₂ Photocatalytic Paper for Removal of VOC Pollutants under Visible Light", **Ind. & Eng. Chem. Res.**, Vol. 52, Issue 32, 10961-10968, 2013.
- Izadyar, Soheila; Fatemi, Shohreh; Mousavand, Tahereh; "Synthesis and Modification of Nano-sized TiO₂ for Photo-degradation Process under Visible Light Irradiation; A Placket-Burman Experimental Design", **Materials Research Bulletin**, Vol. 48, Issue 9, 3196-3203, 2013.
- Salmasi, Maede; Fatemi, Shohreh; Doroudian Rad, Mina; Jadidi, Farhad; "Study of Carbon Dioxide and Methane Equilibrium Adsorption on Silicoaluminophosphate-34 Zeotype and T-Type Zeolite as Adsorbent", **Int. J. Environ. Sci. Technol.**, Vol. 10, No. 5, 1067-1074, 2013.
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