

## CURRICULUM VITAE

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<b>PERSONAL INFORMATION</b>	<b>Afsanehsadat Larimi</b> Gender: Female March 25, 2018 Date of Birth: September 06, 1986  <b>Position</b> <span style="float: right;"><b>23 July 2017-Present</b></span> Assistant Professor, Department of Chemical and Process Engineering, Niroo Research Institute, Tehran, Iran
<b>CONTACT INFORMATION</b>	<b>Address:</b> Niroo Research Institute, Tehran, Iran <b>Tel:</b> +98 21 88 07 9400 - 4405 <b>Cell phone:</b> +98 912 371 5280 <b>Email:</b> alarimi@nri.ac.ir; Larimi@alum.sharif.edu
<b>EDUCATION</b>	<b>Ph. D. Chemical Engineering</b> <span style="float: right;"><b>2012- Sept. 2016</b></span> Sharif University of Technology, Tehran, Iran Dissertation: Hydrogen production by aqueous phase reforming of Glycerol over platinum catalysts GPA: 19.72/20  <b>M.Sc. Chemical Engineering</b> <span style="float: right;"><b>2008-Jan. 2011</b></span> Iran University of Science and Technology, Tehran, Iran Dissertation: Evaluation of Ni/CeO <sub>2</sub> -ZrO <sub>2</sub> catalysts in partial oxidation of methane GPA: 17.39/20  <b>B.Sc. Chemical Engineering</b> <span style="float: right;"><b>2004-Sept. 2008</b></span> Iran University of Science and Technology, Tehran, Iran Dissertation: Technical and economic studies of production of different grades of polyethylene GPA: 16.64/20
<b>HONORS AND AWARDS</b>	<b>Honored member of</b> Max-Planck-Institut für Kohlenforschung <span style="float: right;"><b>2016</b></span> <b>Ranked 1<sup>st</sup></b> among PhD students of Chemical and Petroleum Engineering Department, Sharif University of Technology <span style="float: right;"><b>2016</b></span> <b>Ranked 3<sup>rd</sup></b> in national PhD Entrance exam <span style="float: right;"><b>2012</b></span> <b>Ranked 3<sup>rd</sup></b> among M.S. students of Chemical Engineering Department, Iran University of Science and Technology <span style="float: right;"><b>2011</b></span> <b>Outstanding student</b> among M.S. students of Chemical Engineering Department, Iran University of Science and Technology <span style="float: right;"><b>2010</b></span> Admitted to M.S. on the basis of <b>top student quota</b> without entrance exam <span style="float: right;"><b>2009</b></span> <b>Ranked 7<sup>th</sup></b> among B.S. students of Chemical Engineering Department, Iran University of Science and Technology <span style="float: right;"><b>2008</b></span> <b>Ranked 1<sup>st</sup></b> among entrance B.S. students of Chemical Engineering Department, Iran University of Science and Technology <span style="float: right;"><b>2004</b></span>
<b>RESEARCH INTERESTS</b>	<b>Heterogeneous catalysis:</b> Design and development of catalytic materials, Investigating structure-performance relations, Nanostructured catalysts, Environmental catalysis, Catalysis for energy conversion  <b>Energy:</b> Sustainable energy production, Biomass conversion, Biofuels production, Electrochemical energy conversion, Fuelcell

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**PUBLICATIONS  
IN PEER  
REVIEWED  
JOURNALS**

**Afsaneh Sadat Larimi** and Seyed Mahdi Alavi Amlashi. Ceria-Zirconia supported Ni catalysts for partial oxidation of methane to synthesis gas. *FUEL*, 2012, 102, 366-371.

**Afsaneh Sadat Larimi**, Mohammad Kazemeini and Farhad Khorasheh. Aqueous phase reforming of glycerol using highly active and stable  $\text{Pt}_{0.05}\text{Ce}_x\text{Zr}_{0.95-x}\text{O}_2$  solid solution catalysts. *Applied Catalysis A: General*, 2016, 523, 230–240.

**Afsaneh Sadat Larimi**, Mohammad Kazemeini and Farhad Khorasheh. Development of highly selective doped Pt/MgO nanosheets for renewable Hydrogen production from APR of Glycerol. *International Journal of Hydrogen Energy*, 2016, 41, 17390-17398.

**Afsaneh Sadat Larimi**, Mohammad Kazemeini and Farhad Khorasheh. Highly stable carbon supported Pt catalysts for aqueous phase reforming of glycerol, Under review.

Hesam Maleki, Mohammad Kazemeini and **Afsaneh Sadat Larimi**. Transesterification of canola oil and methanol by lithium impregnated  $\text{CaO-La}_2\text{O}_3$  mixed oxide for biodiesel synthesis. *Journal of Industrial and Engineering Chemistry*, 2017, 47, 399-404.

Farzad Bastan, Mohammad Kazemeini and **Afsaneh Sadat Larimi**. Aqueous-Phase Reforming of Glycerol for Production of Alkanes over  $\text{Ni/Ce}_x\text{Zr}_{1-x}\text{O}_2$  Nano-Catalyst: Effects of the Support's Composition. *Renewable Energy*, 2017, 108, 417-424.

Farzad Bastan, Mohammad Kazemeini and **Afsaneh Sadat Larimi**. Production of Renewable Hydrogen through Aqueous-Phase Reforming of Glycerol over  $\text{Ni/Al}_2\text{O}_3\text{-MgO}$  Nano-Catalyst. *International Journal of Hydrogen Energy*, 2018, 43, 614-621.

**Afsaneh Sadat Larimi**, Farzad Bastan and Farhad Khorasheh. Renewable Hydrogen Production by Ethylene Glycol Steam Reforming over  $\text{Al}_2\text{O}_3$  Supported Ni-Pt Bimetallic Nano-Catalysts, under review.

**CONFERENCE  
PAPE**

**Afsaneh Sadat Larimi** and Seyed Mahdi Alavi Amlashi. Partial oxidation of methane over  $\text{Ni/Ce}_{(1-x)}\text{Zr}_x\text{O}_2$  mixed oxide solid solution catalysts. 2nd International Conference on Chemical Engineering and Applications, Singapore, 2011.

**Afsaneh Sadat Larimi**, Mohammad Kazemeini and Farzad Bastan. Renewable hydrogen production from glycerol over  $\text{Pt/Al}_2\text{O}_3$  catalysts. 4th Hydrogen and Fuel cell Conference, Iran, 2017.

**Afsaneh Sadat Larimi**. Aqueous-Phase Reforming of Glycerol over  $\text{Pt/CeO}_2\text{-ZrO}_2$  Nano-Catalyst: Effect of Active Phase Loading on Hydrogen-Rich Gas Production. 26th European Biomass Conference and Exhibition, Denmark, 2018.

**Afsaneh Sadat Larimi**, Mohammad Kazemeini and Farzad Bastan, Farhad Khorasheh, Hossein Jamali Gandomani. Renewable hydrogen production from glycerol over  $\text{Pt/Al}_2\text{O}_3$  catalysts. 7th International Conference on Nanostructures, Iran, 2018.

Farzad Bastan and **Afsaneh Sadat Larimi**. Removing the  $\text{CO}_2$  contaminant from the chimney of the power plants and its photocatalytic conversion into clean and cheap fuel by solar energy. Seventh National Conference on Environment, Energy and Sustainable Natural Resources, Iran, 2017.

Farzad Bastan and **Afsaneh Sadat Larimi**. Alkane production from biomass by aqueous phase reforming in the presence of  $\text{Ni/CeO}_2\text{-ZrO}_2$  catalysts. 6th Iranian Conference on Renewable Energies and Dispersed Production, Iran, 2018.

Farzad Bastan, Mohammad Kazemeini and **Afsaneh Sadat Larimi**. Developing a Mathematical Model of Asphaltene Precipitation Using the Extended Flory-Huggins Theory and the SRK Equation of State. The 10th International chemical engineering congress and exhibition, Iran, 2018.

<b>TEACHING EXPERIENCE</b>	<b>Islamic Azad University, Pharmaceutical Sciences Branch</b>	
	Teacher, Principles of Food Industry Engineering	Fall 2017, Spring 2018
	<b>Sharif University of Technology</b>	
	Head Teaching Assistant, Advanced Transport Phenomena	Spring 2014
	Teaching Assistant, Kinetics and Reactor Design	Fall 2013, Spring 2014
	Teaching Assistant, Mass Transfer	Fall 2013, Spring 2014
	Teaching Assistant, Heat Transfer	Spring 2013
	Teaching Assistant, Advanced Transport Phenomena	Spring 2013
	Teaching Assistant, Advanced Interfacial Phenomena	Spring 2012, Spring 2013
Teaching Assistant, Catalysis in Chemical Engineering	Fall 2013	
<b>RESEARCH MENTORSHIP</b>	<b>Sharif University of Technology, Iran</b>	
	Advised graduates on their M.S. and Ph.D. thesis entitled:	
	Development of hydrophobic platinum catalysts deposited on various carbon supports.	Spring 2012-Fall 2013
	Experimental investigation of biodiesel production from oils by transesterification method catalyzed by nano-heterogeneous catalysts.	Spring 2013-Spring 2016
	Alkane production from biomass, using nano-heterogeneous catalysts.	Spring 2013-Spring 2016
	Biodiesel production from waste oils over Calcium catalysts using micro-reactors.	Spring 2016- Present
	Fuel production from Glycerol over Nickel catalysts using micro-reactors.	Spring 2016-Present
<b>Niroo Research Institute, Iran</b>		
CO <sub>2</sub> transformation to syngas in the photocatalytic reactor	Fall 2016-Present	
<b>PROFESSIONAL DEVELOPMENT TRAINING</b>	<b>Workshop on theoretical and practical:</b>	
	Measurement of specific surface area by BET method	Spring 2015
	Design of experiment (DOE)	Spring 2015
	Fourier transform infrared spectroscopy (FTIR)	Spring 2015
	Gas chromatography–mass spectrometry (GC-MS)	Spring 2015
	High-performance liquid chromatography (HPLC)	Spring 2015
	Ion Chromatography (IC)	Spring 2015
	Inductively coupled plasma mass spectrometry (ICP-MS)	Spring 2015
	Liquid chromatography–mass spectrometry (LC-MS)	Spring 2015
	Scanning Electron Microscopy (SEM)	Spring 2015
	Transmission electron microscopy (TEM)	Spring 2015
	X-ray powder diffraction (XRD)	Spring 2015
X-ray fluorescence spectrometry (XRF)	Spring 2015	

<b>INTERNSHIP</b>	The National Iranian Oil Company	<b>July 2007-Aug. 2007</b>
<b>WORK EXPERIENCE</b>	Assistant professor, Niroo Research Institute	<b>Apr. 2017-Present</b>
<b>PROFESSIONAL MEMBERSHIP</b>	Iranian Society of Chemical Engineers	<b>2008- Present</b>
	Iranian Catalysis Association	<b>2010- Present</b>
<b>REFERENCES</b>	<p><b>Prof. Farhad Khorashe</b>  Sharif University of Technology, Iran  Chemical and Petroleum Engineering Department  khorashe@sharif.ir  +98 21 66 16 5411</p> <p><b>Prof. Mohammad Kazemeini</b>  Sharif University of Technology, Iran  Chemical and Petroleum Engineering Department  kazemini@sharif.ir  +98 21 66 16 5425</p> <p><b>Prof. Aliasghar Mohammadi</b>  Sharif University of Technology, Iran  Chemical and Petroleum Engineering Department  amohammadi@sharif.ir  +98 21 66 16 5410</p>	