


CURRICULUM VITAE

Personal information		
<i>Name</i>	Mehdi Shiva	
<i>Place and Date of Birth</i>	Tehran, Iran, 1979-3-23	
<i>Nationality</i>	Iranian	
<i>Marital Status</i>	Married	
<i>Business Address</i>	Department of Chemical Engineering, Birjand University of Technology, Birjand, Iran.	
<i>Phone</i>	+98(56)32391229	
<i>Academic Degree</i>	Ph. D. of Chemical Engineering	
<i>Academic Position</i>	Assistant Professor of Chemical Engineering	
<i>E-mail:</i>	mehdi.shiva@gmail.com; mehdishiva@birjandut.ac.ir	

Academic information	
<i>B.Sc.</i>	Chemical Engineering, University of Tehran, Iran, 1997-2001
<i>M. Sc.</i>	Chemical Engineering, University of Sistan and Baluchestan, Iran, 2001-2004.
<i>Title of M.Sc. thesis</i>	Optimization of White Filler Formulation in Rubber Industry
<i>Ph.D.</i>	Chemical Engineering, University of Sistan and Baluchestan, Iran, 2008-2013.
<i>Title of Ph.D. thesis</i>	Determination of Macro-Micro Kinetic Rate Equations on the basis of Experimental Data in Syngas Conversion into Light Olefins over Fe-Co Catalysis

Courses Thought
Kinetics and reactor design, B.Sc.
Process Control, B. Sc.
Thermodynamic, B. Sc.

Numerical Calculations, B. Sc.

Heat Transfer, B. Sc.

Thermodynamics, B.Sc.

Positions Held

Vice President, Administration and Finance Birjand University of Technology, from Sept. 2014 to Dec. 2018

Head of Faculty of Mining, Civil and Chemical Engineering, Birjand University of Technology, 2017

Consulting of Kavir Tyre Co., Since March 2014

Research Interests

Polymer Composite Design

Physical and Mechanical Properties of Elastomers

Kinetics and Catalysis

Design of Experiments, Regression Analysis, Soft Computing, Optimization and Knowledge based Approaches

Fillers, Nanotechnology and NanoComposite Polymers

Skills

- Devices:
Elastomer Mixing and Composite Characterization, Material Characterization Techniques
- Computational software:
MATLAB, COMSOL, MINITAB, Microsoft Office, etc.

Publications (ISI Papers)

1-Mehdi Shiva, Mohammad Lakhi, Studying the effects of silica/alumina and silica/boehmite binary filler on the mechanical properties and the non-isothermal curing time of carbon black filled tyre tread composite, *Composites Part B*, 2019, 107-124

2- Mehdi Shiva, Mohammad Lakhi, Ahmad Soleimani, Increase Heat Conductivity of Bladder and Calculate its Effect on Temperature Profile of the Tire in the Curing Process, *Journal of Applied Research of Chemical -Polymer Engineering*(Persian), Accepted for publication, 2019.

3-Mehdi Shiva, Saeede Akhtari and Massod Shayesteh, Aluminum Compounds Prepared with Spray Pyrolysis in Tyre Compounds Formulations: Mechanical and Heat Conductivity Behavior of Tyre Tread, *Iran. J. Polym. Sci. Technol. (Persian)*, 32, 43-53, 2019.

4-Mehdi Shiva, Mahmood Ariane Jad, Water Jet Rubber Powder in Passenger Tyre Tread Formulation, *Iran. J. Polym. Sci. Technol. (Persian)*, 31, 111-127, 2018.

5-Afshin Razmjooie, Hossein Atashi, Farhad Shahraki, Mehdi Shiva, Investigation of H₂ and CO and Modeling of Syngas Conversion by Artificial Neural Network Based on Experimental Data in a Fixed-bed Reactor, *Journal of Petroleum Research* (Persian) ,27, 96-6,88-102, 2018.

6-Abolfazl Foorginejad; Morteza Taheri; nader molla; mehdi shiva, Tire hardness modeling based on longitudinal ultrasonic velocity using the Gaussian Process Regression, *AmirKabir Journal of Mechanical Engineering*(Persian), Articles in Press, Accepted Manuscript , Available Online from 15 March 2018.

7-M. Taheri, A. Foorginejad, M. Shiva, S.M Emam; A. Haddad, Investigation of rubber formulation by measuring ultrasonic propagation velocity , *Journal of Solid and Fluid Mechanics* (Persian), 6(2) ,285-294, 2016.

8- Mehdi Shiva, Amir Hooshang Haddadi, Response Surface Optimization and Curing Kinetic Study of NR/SBR based Tire Tread Formulation in the Presence of Expanded Clay, *Journal of Rubber Research*, 19(2), 2016.

9-Mehdi Shiva, Amir Hoshang Hadadi, Alireza Nakhaei, and Hossein Varasteh, Study of Abrasion of Rubber Materials by Experimental Design, Response Surface and Artificial Neural Network Modeling, *Iran. J. Polym. Sci. Technol. (Persian)*, 28(3), 197-209, 2015.

10-Mehdi Shiva, Hossein Atashi, Amir Seyed Musavi, Farshad Farshchi, Development of a Macro-Micro Kinetic Model for CO Hydrogenation Reaction over Co-Ni Catalyst., *Kinetic and Catalysis*, 56(6), 826-831, 2015.

11-Hossein Atashi, S. Ramzmjooei, M. Khorashadizadeh, Mehdi Shiva, F. Tabrizi, S. Mousavi, Effects of operating conditions on selectivity of Fe-Co-Mn/MgO at high temperature CO hydrogenation, *Journal of Taiwan institute of Chemical Engineers*, 54, 83-90, 2015.

12-Nargess Rahimi, mehdi Shiva, et. al, Kinetic Study of Superheated Water Extraction of Berberine from Berberis Vulgaris Root, *Bulgarian Chemical Communications*, 47, 140-146, 2015.

<i>13-Mehdi Shiva, Hossein Atashi, Ali Akbar Mirzaei, Maryam Arsalanfâr, Akbar Zare, Study of syngas conversion to light olefins by statistical models, Fuel, 123, 205-210, 2014.</i>
<i>14-Mehdi Shiva, Hossein Atashi, Kinetic study of CO hydrogenation reaction over Fe–Co–Mn ternary catalyst, Journal of the Taiwan Institute of Chemical Engineers, 68, 1–14, 2016.</i>
<i>15-M Shiva, H Atashi, FF Tabrizi, AA Mirzaei, A Zare, The application of hybrid DOE/ANN methodology in lumped kinetic modeling of Fischer–Tropsch reaction, Fuel Processing Technology 106, 631-640, 2013</i>
<i>16-A Zare, A Zare, M Shiva, AA Mirzaei, Effect of calcination and reaction conditions on the catalytic performance of Co–Ni/Al₂O₃ catalyst for CO hydrogenation, Journal of Industrial and Engineering Chemistry 19 (6), 1858-1868, 2013.</i>
<i>17-M Shiva, H Atashi, FF Tabrizi, AA Mirzaei, M Arsalanfâr, CO hydrogenation reaction over FeCo catalyst; a micro-kinetic approach for studying the kinetics and mechanism of hydrocarbon formation, Journal of Industrial and Engineering Chemistry 19 (1), 172-181, 2013.</i>
<i>18-H Atashi, M Shiva, F Farshchi Tabrizi, AA Mirzaei, Study of syngas conversion to light olefins by response surface methodology, Journal of chemistry 2013.</i>
<i>19-M Shiva, H Atashi, FF Tabrizi, AA Mirzaei, Kinetic modeling of Fischer–Tropsch synthesis on bimetallic Fe–Co catalyst with phenomenological based approaches, Journal of Industrial and Engineering Chemistry 18 (3), 1112-1121, 2012.</i>
<i>20-M Shiva, H Atashi, M Hassanpourfard, Studying the abrasion behavior of rubbery materials with combined design of experiment-artificial neural network, Chinese Journal of Polymer Science 30 (4), 520-529, 2012.</i>

Seminars and Conferences

<i>1-Mehdi Shiva, Saeede Akhtari, Ahmad Soleymani, Mohammad Lakhi, Heat Diffusivity and thermal conductivity determination of filled rubber composite, The 16th Iranian National Congress of Chemical Engineering, Amirkabir University of Technology-19-21 Jan, 2019.</i>
<i>2- Mohammad Ali Yaseri Nejad, Abdul Ali Nasiri, Mehdi Shiva, Ali Nikakhtar, The Study of Elastomers and Fillers Effects on the Permeation of Air from Inner liner of Tire, 2th Iranian Applied Chemistry Seminar, University of Zanjan, 2017</i>
<i>3- Mohammad Ali Yaseri Nejad, Abdul Ali Nasiri, Mehdi Shiva, Ali Nikakhtar, The effects of the compound composition on the swelling behavior of the product of the vulcanization of rubber pieces, 2th Iranian Applied Chemistry Seminar, University of Zanjan, 2017</i>
<i>4- Mehdi Shiva, Hossein Varasteh, Organoclays in Tyre Tread Formulations, 12th International Seminar on Polymer Science and Technology, ISPST 2016, Islamic Azad University, Tehran, Iran, 2-5 November 2016.</i>
<i>5-Mehdi Shiva, Seyed Ali ZiaTabar, Formula Development for Rubber Products Using Statistical Mixture Design of Experiment, 12th International Seminar on Polymer Science and Technology, ISPST 2016, Islamic Azad University, Tehran, Iran, 2-5 November 2016.</i>
<i>6- Mehdi Shiva, Seyed Ali ZiaTabar, Response Surface Methodology for Formula Design of Rubber Compounds, 12th International Seminar on Polymer Science and Technology, ISPST 2016, Islamic Azad University, Tehran, Iran, 2-5 November 2016</i>
<i>7- Mehdi Shiva, Hossein Varasteh, Abrasion Improvement of SBR/BR based Tyre Tread Formulation Using High Dispersible Silica 12th International Seminar on Polymer Science and</i>

Technology, ISPST 2016, Islamic Azad University, Tehran, Iran, 2-5 November 2016.
8- Nargess Rahimi, Mehdi Shiva, A. Majid Maskooki, S. Ali Mortazavi, Optimization of Subcritical Water Extraction of Berberine from Berberis Vulgaris stem, using Response Surface Methodology, 10th Iranian National Congress of Chemical Engineering (ICChE 2015).
9- Mehdi Shiva, Amir Hooshang Haddadi, Saied Nouri Khorasani, Hossein Varasteh, Study of Abrasion Mechanism of Rubber Vulcanizates in the Presence of Expanded Clay, 11th International Seminar on Polymer Science and Technology, Iran Polymer and Petrochemical Institute, Tehran, Iran, 6-9 October 2014.
10- Mehdi Shiva, Ali Reza Nakhei, Haidar Raissi, Hossein Varasteh, Studying DIN Abrasion of HDS Filled SBR/BR Composite: A Regression Analysis through Design of the Experiments, 11th International Seminar on Polymer Science and Technology, Iran Polymer and Petrochemical Institute, Tehran, Iran, 6-9 October 2014.
11- Mehdi Shiva, Modeling and Optimization of Rubber to Steel Adhesion on the basis of Experimental Data using Combined RSM/ANN Approach, 11th International Seminar on Polymer Science and Technology, Iran Polymer and Petrochemical Institute, Tehran, Iran, 6-9 October 2014.
12- Ali Nikakhtar, Mehdi Shiva, , Reza Namavar, Kinetic Investigation of Reversion for Accelerated Sulfur Vulcanization, 17th Iranian Physical Chemistry Conference, 21-23 October 2014.
13- Mehdi Shiva, Ali Nikakhtar, Reza Namavar, Reza Farivar, The Effect of Filler on the Gas Barrier Properties of Tyre Inner Liner Compound, 17th Iranian Physical Chemistry Conference, 21-23 October 2014.

Research projects

Polymer Composite Design based on ANN/RSM/GA, 2016

Silica and Alumina from natural sources, under study

Application of nanocellulose and nanographen in polymer composites, under study

Reviewer in Journals

Iran. J. Polym. Sci. Technol. (Persian)- Online ISSN: 2008-0883

Iranian Polymer Journal, ISSN: 1026-1265 (Print) 1735-5265 (Online)

Iranian Journal of Material Science and Technology: Online ISSN: 2383-3882, Print ISSN: 1735-0808

Physical Chemistry Research: Print ISSN 2322-5521, Online ISSN 2345-2625