CURRICULUM VITAE

Personal Information	 Name: Mohammad Saleh Shafeeyan Date & Place of Birth: 19 February 1985, Iran E-mail: ms.shafeeyan@gu.ac.ir
Educational Background	 PhD. Chemical Engineering/ Separation Processes 2011–2015, University of Malaya, Kuala Lumpur, Malaysia M.Sc. Chemical Engineering/ Reaction Engineering 2009 –2011, University of Malaya, Kuala Lumpur, Malaysia B.Sc. Chemical Engineering 2003 –2008, University of Tehran, Tehran, Iran
Theses	 "Fixed-Bed Adsorption of Carbon Dioxide Onto Ammonia-Modified Activated Carbon: Experimental and Modeling Study": Ph.D. "Amination of Palm Shell Based Activated Carbon for Carbon Dioxide Adsorption": M.Sc. "Enzymatic treatment of cellulose fibers using cellulase enzyme": B.Sc.
Work Experiences (Research and Teaching)	 2018- Up to now: Assistant Professor, Department of Chemical Engineering, Golestan University, Gorgan, Iran 2017-2018: Lecturer, Department of Chemical and Materials Engineering, Buein Zahra Technical University, Qazvin, Iran 2016-2017: Post-Doctoral Research Fellow, School of Chemical Engineering, University of Tehran, Tehran, Iran. 2015-2016: Post-Doctoral Research Fellow, Department of Chemical Engineering, University of Malaya, Kuala Lumpur, Malaysia. 2013-2015: Research Associate, Centre for Separation Science & Technology, University of Malaya. 2009-2013: Research Assistant, Centre for Separation Science & Technology, University of Malaya.
Honors/ Awards	 Recipient, Iran National Elite Foundation award; "Dr. Kazemi Ashtiani": Recruiting Faculties in Scientific Institutions & Research Grant for Young Assistant Professors, 2017. Recipient, Iran National Elite Foundation award; "Shahid Chamran Scientific Award for Postdoc Researchers", 2016. Recipient, "Bright Sparks Scholarship": Awarded from University of Malaya to outstanding postgraduate students with deep interest in research and academic work to pursue their study in PhD level, 2011. Publishing three articles that have been classified by Web of Science as "highly cited papers, in the top 1% of the academic field of chemistry and environment (Thomson Reuters' Essential Science Indicators.) Editorial board of the Journal of Chemical Engineering & Process Techniques. Reviewer of several ISI-indexed journals, including Journal of Analytical and Applied Pyrolysis, Carbon, Energy & Fuels, The Korean Journal of Chemical Engineering, Journal of Chemometrics, Materials Express, Journal of Molecular Liquids, Desalination and Water Treatment, Polish Journal of Environmental Studies, and

Book	• Book chapter "Transition metal substituted magnetite as an innovative adsorbent and heterogeneous catalyst for water treatment" in: A. Bonilla-Petriciolet (Ed.), "Adsorption Processes for Water Treatment and Purification", Springer International Publishing, Switzerland 2017.
Journal Papers	 The effects of high-energy ball milling on the synthesis, sintering and microwave dielectric properties of Li₂TiO₃ ceramics, <i>Journal of Materials</i> <i>Science: Materials in Electronics</i>, 29 (13), 10933-10941. Evaluating the efficiency of nano-sized Cu doped TiO2/ZnO photocatalyst under visible light irradiation", <i>Journal of Molecular Liquids</i>, 258, 354-365. Enhanced UV-Visible Photocatalytic Activity of Cu-Doped ZnO/TiO₂ nanoparticles", <i>Journal of Materials Science: Materials in Electronics</i>, 29 (7), 5480-5495.
	4. A comparative study on a cationic dye removal through homogeneous and heterogeneous Fenton oxidation systems", <i>Acta Chimica Slovenica</i> , 65 (1), 166-171.
	 S. Comprehensive study on the influence of morybdenum substitution on characteristics and catalytic performance of magnetite nanoparticles", <i>Research on Chemical Intermediates</i>, 44 (2018), 883–900. 6. Solubility of CO₂ in aqueous solutions of glycerol and monoethanolamine"
	Journal of Molecular Liquids, 249 (2018), 40–52.
	review", Journal of Environmental Management, 198 (2017), 78–94.
	8. Absorption of CO_2 into aqueous mixtures of glycerol and monoethanolamine", <i>Journal of Natural Gas Science & Engineering</i> , 209 (2016), 596–602.
	9. Ultrasound and UV assisted Fenton treatment of recalcitrant wastewaters using transition metal-substituted-magnetite nanoparticles", <i>Journal of Molecular Liquids</i> 222 (2016) 1076–1084
	10. Modeling of carbon dioxide adsorption onto ammonia-modified activated carbon: Kinetic analysis and breakthrough behavior", <i>Energy & Fuels</i> , 29 (2015), 6565–6577.
	11. Effects of niobium and molybdenum impregnation on adsorption capacity and Fenton catalytic activity of magnetite", <i>RSC Advances</i> , 5 (2015), 87535-87549.
	 12. Adsorption equilibrium of carbon dioxide on ammonia-modified activated carbon", <i>Chemical Engineering Research and Design</i>, 104 (2015) 42-52. 13. Density and viscosity of aqueous mixtures of N methyldiethanolamines
	(MDEA), piperazine (PZ) and ionic liquids", <i>Journal of Molecular Liquids</i> , 209 (2015), 596–602.
	14. Modification of Activated Carbon Using Nitration Followed by Reduction for Carbon Dioxide Capture", <i>Bulletin of the Korean Chemical Society</i> , 36 (2015) 533–538.
	15. A semi-empirical model to predict adsorption equilibrium of carbon dioxide on ammonia modified activated carbon", <i>Journal of Advances in Science, Engineering & Technology</i> , 5 (2015) 72-77.
	16. A review of mathematical modeling of fixed-bed columns for carbon dioxide adsorption", <i>Chemical Engineering Research and Design</i> , 92 (2014) 961-988.
	17. Physical properties of aqueous mixtures of N-methyldiethanolamine (MDEA) and ionic liquids", <i>Journal of Industrial and Engineering Chemistry</i> , 20 (2014), 3349-3355.
	18. Experimental and modeling analysis of propylene polymerization in a pilot scale fluidized bed reactor", <i>Industrial & Engineering Chemistry Research</i> , 53 (2014), 8694-8705.
	19. Anchoring a halogenated amine on the surface of a microporous activated carbon for carbon dioxide capture", <i>Journal of the Taiwan Institute of Chemical Engineers</i> 44 (2013) 774-779
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	 of activated carbon for the preparation of carbon dioxide adsorbents", <i>Fuel</i>, 94 (2012), 465-472. 21. Carbon dioxide capture with amine-grafted activated carbon", <i>Water, Air, & Soil Pollution</i>, 223 (2012), 827-835. 22. Production of microporous palm shell based activated carbon for methane adsorption: Modeling and optimization using response surface methodology", <i>Chemical Engineering Research and Design</i>, 90 (2012), 776-784. 23. Optimization of synthesis and characterization of palm shell-based bio-char as a by-product of bio-oil production process", <i>BioResources</i>, 7 (2012), 246-264. 24. Tailoring the surface chemistry of activated carbon by nitric acid: Study using response surface method", <i>Bulletin of the chemical society of Japan</i>, 84 (2011), 1251-1260. 25. Ammonia modification of activated carbon to enhance carbon dioxide adsorption: Effect of pre-oxidation", <i>Applied Surface Sciences</i>, 257 (2011), 3936-3942. 26. Dynamic modeling of gas phase propylene homopolymerization in fluidized bed reactors", <i>Chemical Engineering Science</i>, 66 (2011), 1189-1199. 27. Exploring Potential Methods for Anchoring Amine Groups on the Surface of Activated Carbon for CO₂ Adsorption", <i>Separation Science and Technology</i>, 46 (2011), 1098-1112. 28. A review on surface modification of activated carbon for carbon dioxide adsorption", <i>Journal of Analytical and Applied Pyrolysis</i>, 89 (2010), 143-151. 29. Enzymatic treatment of alpha-cellulose fibers by using a commercial cellulase", <i>Journal of Biotechnology</i>, 136 (2008), S424.
Conference Papers	 Ammonia modification of activated carbon to enhance carbon dioxide adsorption: Effect of pre-oxidation", 2nd International Renewable Energy and Environment Conference (IREEC), Kuala Lumpur, Malaysia, 2013. Statistical modeling and optimization of amination conditions of activated carbon for carbon dioxide adsorption using response surface methodology", 3rd International Conference on Chemical, Biological and Environmental Engineering (IPCBEE), Singapore, 2011. The most promising techniques for Functionalization of activated carbon surface with amine groups", 17th Regional Symposium on Chemical Engineering (RSCE), Bangkok, Thailand, 2010. Surface modification of activated carbon with gaseous ammonia for carbon dioxide adsorption", 24th Symposium of Malaysian Chemical Engineers (SOMChE), Kuala Lumpur, Malaysia, 2010. Enzymatic treatment of α-cellulose fibers by using a cellulase enzyme", 13th International Biotechnology Symposium and Exhibition (IBS), Dalian, China, 2008.
Professional Membership	 Associate member of the Institution of Chemical Engineers (IChemE) Associate member of American Chemical Society (ACS) Member of American Institute of Chemical Engineers (AICHE)
Teaching courses	 Heat Transfer Unit Operation Mass Transfer Fluid Mechanics Thermodynamics Physical Chemistry Transport Phenomena Kinetics & Reactor Design Plant Design & Economics for Chemical Engineers

Computer Skills	 Comsol Multiphysics, Hysys, Matlab, Design Expert, Sigma Plot, MS Office
Lab Skills	 Temperature Programmed Analysis (TPR, TPD, TPO, and TPA) Dynamic Physisorption and Chemisorption Analyzer High Performance Liquid Chromatography (HPLC) Fourier Transform Infrared Spectroscopy (FTIR) Transmission electron microscopy (TEM) X-ray photoelectron spectroscopy (XPS) Thermal Gravimetric Analyzer (TGA) Scanning Electron Microscope (SEM) X-ray crystallography (XRD) Gas Chromatography (GC) Elemental Analyzer
References	 Prof. Dr. Wan Mohd Ashri Wan Daud Department of Chemical Engineering, Faculty of Engineering, University of Malaya, E-mail: Ashri@um.edu.my Prof. Dr. Navid Mostoufi School of Chemical Engineering, University of Tehran E-mail: mostoufi@ut.ac.ir Prof. Dr. Manouchehr Haghighi Australian School of Petroleum Science, University of Adelaide E-mail: mhaghighi@asp.adelaide.edu.au