

Curriculum Vitae

Rasoul Moradi

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Objective

Scientific and technical research with special interests in following areas:

Nano-enabled Water and Energy Systems, Nano-Bio, Fluid Flow, Performance Materials

Current Positions:

- Head of Chemical Engineering and Chemistry Department, Khazar University, Baku, Azerbaijan (since 2016)
- Leading Investigator of Nanotechnology Research Laboratory, Khazar University, Baku, Azerbaijan (since 2018)

Education

- Ph.D. Nanotechnology-Chemical Engineering (2011-2016)
University of Tehran, Tehran, Iran
GPA: 16.65/20 (*Top 20% among 10 Students*)
- B.Sc. & M.Sc., Sharif University of Technology, Tehran, Iran (2002-2008)
GPA: 17.21/20 (*Top 10% among 20 Students*)
- Erasmus Mobility Training Program-
Polytechnic Institute of Bragança (*IPB*), Braganza, Portugal (2019)

Current Projects:

- Nanofibrous Scaffolds for Regenerative Medicine and Drug Delivery
- Nano-enabled Biosensors for early Prognosis of Breast Cancer via Detection of HER2
- Water Repelling-Antibacterial Surface Engineering using PVDF-HFP/ZnO Nanofiber Coatings
- Computational and Experimental Investigation of Fe₃O₄ and CuO Ethylene Glycol Nanofluids for Renewable Energy Applications
- Study on Energy Storage Capacity of Graphene-PVDF Nanocomposites
- Hexagonal Boron Nitride Nanotubes (BNNTs) as Promising Nano-vehicles for Dox Encapsulation: Molecular Modelling Survey
- Graphene-Aptamer Nano-Biosensor for Early Detection of BNP Biomarker
- Molecular dynamic simulation of SARS-Cov-2 viral entry to host cell and potent drugs blocking viral Spike protein

Work Experience

- Assistant professor and Head of Department of Chemical Engineering, Khazar University, Baku, Azerbaijan, 2016-present
- Director of Nanotechnology Lab, Khazar University, Baku, Azerbaijan, 2017-present
- Lecturer, Chemical Engineering and Chemistry Courses, Baku Engineering University, Baku, Azerbaijan, 2019-2020
- Researcher, Nanotechnology Lab, University of Tehran, Tehran, Iran, 2011-2016
- Research and Development Researcher (part time): Kimidaroo Company: 2010-2012
- Quality control Chemist (part time): Paksan Company: 2008-2010
- Research Assistant, (volunteer) Nanotechnology and Pharmacology Lab., Department of Pharmacology, University of Tehran, Tehran, Iran, 2007 – 2008
- Teaching assistant and Research assistant, Sharif University of Technology. Tehran, Iran. 2003-2007

Instrumental Skills

- Nanomaterial Synthesis
- Electrospinning Micro Electro-Mechanical Systems (MEMS) Systems
- Microscopy Instruments: SEM, AFM
- instruments: Fluorescence and Phosphorescence, FT-IR, UV-Vis, NMR, Raman Spectroscopy, DSC, TGA, Universal Tensile test,
- Instrumental analyses: GC, GC-MS, HPLC, MS/MS,
- Separation Technologies

Computer and Programming Skills

- Conversancy in working with: DOE, Hyperchem, LAMMPS, Gaussian, Materials Studio, COMSOL. HYSYS, ProMax, CFD (Ansys)
- Programming Language: PASCAL, MATLAB
- Computer Literacy: Adobe Photoshop, Microsoft Office, Linux and Windows

Thesis

- PhD. Thesis: Super-Hydrophobic Nanocomposite Nanofibrous Membranes of Graphene/PVDF
August 2016, Final Score: 19.0/20
- M.Sc. Thesis: Investigation and Characterization of HSA/ FA interactions
November 2007, Final Score: 19.5/20

Honors and Awards

- Ranked 2nd and in the *1st Nation-Wide Scientific PhD Entrance Exam on Chemical Engineering, Iran, 2011*
- Ranked 5th and in the *10th Nation-Wide Scientific University Student Olympiad on Chemistry, Iran, 2006*
- Ranked 4th in the *Nation-Wide Master's Degree Entrance Exam* among almost 8,500 students, Iran, 2005
- Ranked 720th among over than 500,000 Candidates in the *Nation-Wide University Entrance Exam, 2002*
- Iranian Young Researchers and Elite Club Award, 2014

Publications (h-index: 44)

ResearchGate:

https://www.researchgate.net/profile/Rasoul_Moradi2

Google Scholar:

<https://scholar.google.com/citations?user=f583h9wAAAAJ&hl=en>

1. Nanoarchitectonics for Abused-Drug Biosensors, R Moradi, NP Khalili, NLW Septiani, CH Liu, E Doustkhah, Y Yamauchi, Small, 18 (10), 2104847
2. Polyvinyl alcohol nanofibers encompass Chitosan/Tripolyphosphate nanogels for controlled release of gemifloxacin antibiotic, NP Khalili, M Parsa, R Moradi, Materials Today: Proceedings 65, 2920-2925
3. An Overview of Nanotechnology in Upstream and Downstream of Oil and Gas Industry: Challenges and Solutions, M Sadegh Rajabi, Rasoul Moradi, H Pirouz Kavehpour, Journal of Energy Resources Technology, 144, 8.
4. Interfacial tension of acidic heavy crude oil type and dolomite surface wettability: salinity and nanoparticles impact, M Sadegh Rajabi, Rasoul Moradi, H Pirouz Kavehpour, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 44, 2, 5340-5357.
5. Chemically crosslinked polyvinyl alcohol for water shut-off and conformance control treatments during oil production: The effect of silica nanoparticles, M Sadegh Rajabi, Rasoul Moradi, L Omar Andrade, Journal of Applied Polymer Science, e53382.
6. In silico Investigation on the Inhibiting Role of Nicotine/Caffeine by Blocking the S Protein of SARS-CoV-2 Versus ACE2 Receptor, October 2020, Microorganisms DOI: 10.3390/microorganisms8101600
7. Fabrication and biocompatibility of BNNT supramolecular complexes and PCL/BNNTs nanofibers, N.P Khalili, R. Moradi, P. Kavehpour, F. Islamzade, March 2020, Materials today: proceedings DOI: 10.1016/j.matpr.2020.02.782
8. Boron nitride nanotube clusters and their hybrid nanofibers with polycaprolactone: Thermo-pH sensitive drug delivery functional materials, N.P Khalili, R. Moradi, P. Kavehpour, F. Islamzade, European Polymer Journal, Volume 127, 15 March 2020, 109585
9. Nanofibrous poly (ϵ -caprolactone)/poly (vinyl alcohol)/chitosan hybrid scaffolds for bone tissue engineering using mesenchymal stem cells, The International journal of artificial organs, 2007, 30 (3), 204-211
10. Optimization of micro Knudsen gas sensor for high precision detection of SO₂ in natural gas, Yuanzhou Zheng, Tran Dinh Manh, M. Barzegar Gerdroodbary Rasoul Moradi, March 2020, Results in Physics 16:102933
11. Air Gap Membrane Distillation for Enrichment of H₂O in Natural Water using Poly (vinylidene fluoride) Nanofibrous Membrane, December 2015, Chemical Engineering and Processing 100, DOI10.1016/j.cep.2015.11.015
12. Optimal modification of poly(Vinylidene fluoride) membrane surface by using surface-modifying macromolecules for application in membrane distillation April 2017, Desalination and water treatment, 71(5-7):62-78 DOI 10.5004/dwt.2017.20292
13. Synthesis and Preparation of Mono-Layer h-BN Nanopowders by Using a Combination of CVD Method with Isopropanol-Assisted Exfoliation Process, February

- 2017, Powder Metallurgy and Metal Ceramics, 55(9-10) DOI10.1007/s11106-017-9836-1
14. Produced Water Treatment by Using Nanofibrous Polyvinylidene Fluoride Membrane in Air Gap Membrane Distillation (Azeri), January 2017 SPE Annual Caspian Technical Conference and Exhibition, DOI 10.2118/189051-AZ
 15. Produced Water Treatment by Using Nanofibrous Polyvinylidene Fluoride Membrane in Air Gap Membrane Distillation January 2017 Conference: SPE Annual Caspian Technical Conference and Exhibition, DOI 10.2118/189051-MS
 16. Optimal control of batch cooling crystallizers by using genetic algorithm, September 2016, Case Studies in Thermal Engineering, DOI10.1016/j.csite.2016.09.001
 17. Experimental investigation of nanofibrous poly(vinylidene fluoride) membranes for desalination through air gap membrane distillation process, July 2016, Korean Journal of Chemical Engineering 33(10), DOI10.1007/s11814-016-0137-z
 18. Vacuum enhanced membrane distillation for trace contaminant removal of heavy metals from water by electrospun PVDF/TiO₂ hybrid membranes, June 2016, Korean Journal of Chemical Engineering 33(7), DOI10.1007/s11814-016-0081-y
 19. Preparation and Characterization of Polyvinylidene Fluoride/Graphene Superhydrophobic Fibrous Films for Contorted Release. *Polymers* 2015, 7(8), 1444-1463.
 20. Air Gap Membrane Distillation for Enrichment of H₂O in Natural Water using Poly(vinylidene fluoride) Nanofibrous Membrane for Synthesize of FDG Radio-Drug, *Journal of Chemical Engineering*, 2016 (100) 26-36
 21. Synthesis of nanofibrous PVDF membranes for desalination using air gap membrane distillation process: A comparative evaluation, *ACES*, 8(12), 2014.
 22. Functionally Graded Nanocomposite Cylinders Reinforced by Wavy Carbon Nanotube, *Advanced Design and Manufacturing Technology*, 7(4) 2014.
 23. Drag and heat flux reduction induced by the pulsed counterflowing jet with different periods on a blunt body in supersonic flows, December 2018, DOI: 10.1016/j.ijheatmasstransfer.2018.08.066
 24. Heat transfer enhancement of ferrofluid inside an 90° elbow channel by non-uniform magnetic field, Apr 2018, *Journal of Magnetism and Magnetic Materials*, DOI 10.1016/j.jmmm.2018.03.070
 25. Bioinspired Superhydrophobic PVDF/Graphene Nanofibrous Film, Nanotechitaly, 2014. Venice, Italy
 26. Development of Knudsen thermal force for mass analysis of CH₄/He gas mixture January 2019 *International Journal of Modern Physics C*, DOI: 10.1142/S0129183119500025
 27. Development of Knudsen thermal force for mass analysis of CH₄/He gas mixture January 2019 *International Journal of Modern Physics C* DOI: 10.1142/S0129183119500025
 28. Nanofluid turbulent flow in a pipe under the effect of twisted tape with alternate axis, March 2018, *Journal of Thermal Analysis and Calorimetry*, DOI 10.1007/s10973-018-7093-2
 29. Calibration of low-pressure MEMS gas sensor for detection of hydrogen gas, March 2018, *International Journal of Hydrogen Energy*, DOI 10.1016/j.ijhydene.2017.11.087
 30. Heat transfer enhancement of ferrofluid inside an 90° elbow channel by non-uniform magnetic field, April 2018, *Journal of Magnetism and Magnetic Materials* DOI10.1016/j.jmmm.2018.03.070
 31. Mass analysis of CH₄/SO₂ gas mixture by low-pressure MEMS gas sensor, March 2018, *Journal of Natural Gas Science and Engineering* 53 DOI10.1016/j.jngse.2018.03.002

32. CNT-water nanofluid thermal radiation heat transfer over a stretching sheet considering heat generation, April 2017, Journal of Molecular Liquids 237, DOI 10.1016/j.molliq.2017.04.058
33. Numerical simulation for heat transfer intensification of nanofluid in a porous curved enclosure considering shape effect of Fe₃O₄ nanoparticles, December 2017, Chemical Engineering and Processing, DOI 10.1016/j.cep.2017.12.005
34. Fe₃O₄-Ethylene glycol nanofluid forced convection inside a porous enclosure in existence of Coulomb force, November 2017, Journal of Molecular Liquids 249 DOI 10.1016/j.molliq.2017.11.048
35. Combined thermophoresis and Brownian motion effects on nanofluid free convection heat transfer in an L-shaped enclosure, October 2017, Chinese Journal of Physics-Taipei- 55(6) DOI 10.1016/j.cjph.2017.09.011
36. Heat transfer of Fe₃O₄-water nanofluid in a permeable medium with thermal radiation in existence of constant heat flux, September 2017, Chemical Engineering Science. 174 DOI 10.1016/j.ces.2017.09.026
37. Numerical investigation of drag and heat flux reduction mechanism of the pulsed counterflowing jet on a blunt body in supersonic flows, March 2018, Acta Astronautica 146, DOI 10.1016/j.actaastro.2018.02.040
38. Application of direct simulation Monte Carlo for development of micro gas sensor, Bulgarian Chemical Communications, Volume 50, Issue 2, (298–305) 2018
39. PVDF/h-BN hybrid membranes and their application in desalination through AGMD, Jul 2018, Membrane Water Treatment 9(4):221-231, DOI: 10.12989/mwt.2018.9.4.221
40. Application of Knudsen thermal force for detection of inert gases, JUN 2018, RESULTS IN PHYSICS 9(4), 351-358 10.1016/j.rinp.2018.02.002
41. Application of direct simulation Monte Carlo for development of micro gas sensor, Bulgarian Chemical Communications, Volume 50, Issue 2, (pp. 298 –305) 2018
42. Design and high-speed aerodynamic performance analysis of vortex lift waverider with a wide-speed range, July 2018, Acta Astronautica 151, DOI 10.1016/j.actaastro.2018.07.034
43. Mixing enhancement mechanism induced by the cascaded fuel injectors in supersonic flows: A numerical study, July 2018, Acta Astronautica, DOI: 10.1016/j.actaastro.2018.07.027
44. Shape effect of cavity flame-holder on mixing zone of hydrogen jet at supersonic flow, July 2018, International Journal of Hydrogen Energy, DOI: 10.1016/j.ijhydene.2018.06.166
45. The influence of coolant jet direction on heat reduction on the nose cone with Aerodome at supersonic flow, June 2018, Acta Astronautica 151, DOI: 10.1016/j.actaastro.2018.06.026
46. Heat transfer study of mechanical face seal and fin by analytical method, Journal of Engineering Science and Technology, May 2018, DOI: 10.1016/j.jestch.2018.05.001
47. Effect of dual micro fuel jets on mixing performance of hydrogen in cavity flameholder at supersonic flow, April 2018, International Journal of Hydrogen Energy 43(20), DOI: 10.1016/j.ijhydene.2018.03.230
48. Numerical experiment on the flow field properties of a blunted body with a counterflowing jet in supersonic flows, April 2018, Acta Astronautica 147, DOI: 10.1016/j.actaastro.2018.04.018
49. Heat transfer enhancement of ferrofluid inside an 90° elbow channel by non-uniform magnetic field, April 2018, Journal of Magnetism and Magnetic Materials 460, DOI: 10.1016/j.jmmm.2018.03.070
50. Flame propagation and stabilization in dual-mode scramjet combustors: A survey, June 2018 Progress in Aerospace Sciences, DOI: 10.1016/j.paerosci.2018.06.003

51. Two phase model for nanofluid heat transfer intensification in a rotating system under the effect of magnetic field, January 2018, Chemical Engineering and Processing 123:47-57 DOI 10.1016/j.cep.2017.10.024
52. The influence of non-uniform magnetic field on heat transfer intensification of ferrofluid inside a T-junction January 2018, Chemical Engineering and Processing 123(1):47-57 DOI 10.1016/j.cep.2017.10.021
53. Application of molecular force for mass analysis of Krypton/Xenon mixture in low-pressure MEMS gas sensor December 2017, Vacuum DOI 10.1016/j.vacuum.2017.12.042
54. Forced convection in existence of Lorentz forces in a porous cavity with hot circular obstacle using nanofluid via Lattice Boltzmann method, September 2017, Journal of Molecular Liquids, 246, DOI 10.1016/j.molliq.2017.09.053
55. The influence of upstream wavy surface on the mixing zone of the transverse hydrogen jet at supersonic free stream, 2019 Aerospace Science and Technology
56. Mixing augmentation of transverse hydrogen jet by injection of micro air jets in supersonic crossflow, May 2017, Acta Astronautica 137 DOI 10.1016/j.actaastro.2017.05.007
57. TiO₂ Containing PVDF-HFP Electrospun Films as Antibacterial Wound Dressings, Nanotechnology, 2015. Bologna, Italy.
58. Introducing Hierarchical Nanostructure into Graphene/PVDF Nanocomposite Films to Induce Superhydrophobicity, IWCPE-2014. International Workshop of Chemical Engineering, 2014 Istanbul.
59. Synthesis and Characterization of Hexagonal Boron nitride 2D Nanosheets, Nanostructures conference, Kish island, Iran, 2016.
60. Synthesis and Characterization of PVDF/Nanoclay Electrospun hollow fibers. International Conference of Chemical Engineering, March 2014, Kish, Iran.
61. Handbook of Iranian Lubricant Industry, (In Persian), Book Chapter, 2008. Sharif University publication.
62. Application of KKL model in studying of nanofluid heat transfer between two rotary tubes Open Access Alsagri, A.S., Moradi, R. 2019 Case Studies in Thermal Engineering
63. Effect of fuel jet arrangement on the mixing rate inside trapezoidal cavity flame holder at supersonic flow Du, S., Al-Rashed, A.A.A.A., Moradi, R Barzegar Gerdroodbary, M., (...), Shahsavar, A., Talebizadehsardari, P. 2019 International Journal of Hydrogen Energy
64. Drag and heat flux reduction induced by the pulsed counterflowing jet with different waveforms on a blunt body in supersonic flows Zhang, R.-R., Huang, W., Yan, L., Chen, Z., Moradi, R. 2019 Acta Astronautica
65. MHD nanofluid heat transfer between a stretching sheet and a porous surface using neural network approach Geng, Y., Moradi, R. Hassanvand, A., 2019 International Journal of Modern Physics C
66. Influence of various shapes of CuO nanomaterial on nanofluid forced convection within a sinusoidal channel with obstacles Moradi, R. Saidizad, A., Jafaryar, M., (...), Shafee, A., Li, Z. 2019 Chemical Engineering Research and Design
67. Measurement of low-pressure Knudsen force with deflection approximation for gas detection Open Access Vo, D.D., Moradi, R., Barzegar Gerdroodbary, M., Ganji, D.D. 2019 Results in Physics
68. Injection of multi hydrogen jets within cavity flameholder at supersonic flow Edalatpour, A., Moradi, R., Amini, Y. 2019 International Journal of Hydrogen Energy
69. Study of Strength of Interaction between Solute and Solvent Molecules in Aqueous Solutions of Ethylene Glycol, D-Mannitol, D-Fructose, Sucrose, and Maltose at 294.15, 298.15, and 303.15 K and Atmospheric Pressure using Refractometry

- Moradi, R., Kiani, F., Sarikavakli, N. 2019 Russian Journal of Physical Chemistry A
70. Mixing augmentation mechanism induced by the dual injection concept in scramjet engines Du, Z.-B., Huang, W., Yan, L., Chen, Z., Moradi, R. 2019 Acta Astronautica
 71. Numerical mesoscopic method for transportation of H₂O-based nanofluid through a porous channel considering Lorentz forces Shekholeslami, M., Moradi, R., Shafee, A., Li, Z. 2019 International Journal of Modern Physics C 30(2-3),1950007
 72. Application of Neural Network for estimation of heat transfer treatment of Al[Formula presented]O[Formula presented]-H[Formula presented]O nanofluid through a channel Shekholeslami, M., Gerdroodbary, M.B., Moradi, R., Shafee, A., Li, Z. 2019 Computer Methods in Applied Mechanics and Engineering 344, pp. 1-12
 73. Nanofluid turbulent flow in a pipe under the effect of twisted tape with alternate axis Jafaryar, M., Shekholeslami, M., Li, Z., Moradi, R. 2019 Journal of Thermal Analysis and Calorimetry 135(1), pp. 305-323
 74. Transient nanofluid squeezing cooling process using aluminum oxide nanoparticle Tlili, I., Moradi, R., Gerdroodbary, M.B. 2019 International Journal of Modern Physics C Article in Press
 75. Optimization of micro Knudsen gas sensor for high precision detection of SO₂ in natural gas, Tlili, I., Moradi, R., Gerdroodbary, Results in Physics Available online 9 January 2020, 102933
 76. Influence of backward-facing step on the mixing efficiency of multi microjets at supersonic flow, Li, Z., Moradi, R., Marashi, S.M., Babazadeh, H., Choubey, G. 2020 , Acta Astronautica , 175, pp. 37-44
 77. Mixing enhancement of multi hydrogen jets through the cavity flameholder with extended pylon, Li, Z., Barzegar Gerdroodbary, M., Shekholeslami, M. , Moradi, R., 2020 Acta Astronautica 175, pp. 300-307
 78. Three-dimensional DSMC simulation of thermal Knudsen force in micro gas actuator for mass analysis of gas mixture, Li, Y., Abazari, A.M., Barzegar Gerdroodbary, M., Moradi, R., Babazadeh, H., 2020 Measurement: Journal of the International Measurement Confederation 160,107848
 79. Mixing enhancement of the multi hydrogen fuel jets by the backward step, Peng, Y., Barzegar Gerdroodbary, M., Shekholeslami, M., Moradi, R., 2020 Energy 203,117859
 80. Impact of MHD on hybrid nanomaterial free convective flow within a permeable region, Manh, T.D., Nam, N.D., Abdulrahman, G.K., Moradi, R., Babazadeh, H., 2020 Journal of Thermal Analysis and Calorimetry, 140(6), pp. 2865-2873
 81. Alumina nanoparticle flow within a channel with permeable walls, , Nam, N.D., Abdulrahman, G.K., Moradi, R., 2020 International Journal of Modern Physics C 31(4),2050050
 82. Effect of inclined block on fuel mixing of multi hydrogen jets in scramjet engine, Aerospace Science and Technology, 2020, 105, 106035
 83. Effect of cavity back height on mixing efficiency of hydrogen multi-jets at supersonic combustion chamber, International Journal of Hydrogen Energy, 2020, 45(51), pp. 27828-27836
 84. Computational study of the multi hydrogen jets in presence of the upstream step in a Ma=4 supersonic flow, International Journal of Hydrogen Energy, 2020, 45(55), pp. 31118-31129
 85. Effect of strut angle on performance of hydrogen multi-jets inside the cavity at combustion chamber, International Journal of Hydrogen Energy, 2020, 45(55), pp. 31179-31187

86. Thermal effects of the nonuniform magnetic force on nanofluid stream along the convergent tube: A computational study, *International Journal of Modern Physics B*, 2020, 34(28), 2050264
87. Characterization of New Wire Gauze-Structured Packing: Experimental Study, *Chemical Engineering and Technology*, 2020, 43(12), pp. 2469–2476
88. Characterization of a New Structured Packing by Computational Fluid Dynamics, *Chemical Engineering and Technology*, 2021, 44(1), pp. 156–163
89. Effect of downstream sinusoidal wall on mixing performance of hydrogen multi-jets at supersonic flow: Numerical study, *Aerospace Science and Technology*, 2021, 109, 106410
90. Effect of sinusoidal splitter on mixing performance of co-flow jets of hydrogen and air inside dual-combustor ramjet, *Acta Astronautica*, 2021, 180, pp. 211–217

Journals Reviewer Summary

- For manuscripts reviewed from date range May 2019 - February 2022:
- (20 manuscripts) *International Journal of Hydrogen Energy*
- (15 manuscripts) *Journal of Applied Thermal Engineering*
- (7 manuscripts), *Fuel*
- (7 manuscripts) *Scientific Reports, Nature*
- (6 manuscripts) *Desalination*
- (3 manuscripts) *High Performance Polymers*
- (2 manuscripts) *International Journal of Thermal Sciences*
- (2 manuscripts) *International Communications in Heat and Mass Transfer*
- (2 manuscripts) *Journal of Heat Transfer*
- (2 manuscripts) *Colloid and Polymer Science*
- (1 manuscripts) *AEJ - Alexandria Engineering Journal*. (1 manuscripts) *Journal of Mechanical Engineering Science*. (1 manuscripts) *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*. (1 manuscripts) *Journal of Thermal Engineering*. (1 manuscripts) *Engineering Science and Technology, an International Journal*. (1 manuscripts) *Biofouling*. (1 manuscripts) *Engineering Applications of Computational Fluid Mechanics* (1 manuscripts) *Journal of Computational Science* (1 manuscripts) *Journal of Fluorine Chemistry*. (1 manuscripts) *Journal of Environmental Science and Health, Part A*

Editorial Board Membership

- *Journal of Material Science and Research*
- *Journal of Materialstoday proceeding*
- *Journal of Drug Resistant Pathogen Research*

Recent Scientific Presentations

- Leading and Holding the first Eurasian Nanotechnology Conference, Baku. Azerbaijan, October 2019
- Erasmus+ Faculty Member Mobility IPB (Postdoctoral research outcome Presentation), Braganza, Portugal, 2019
- Produced Water Treatment, SPE Caspian Conference, Baku, Azerbaijan, 2017
- Separations on Microfluidics platform, University of Tehran, Tehran. 2015
- Electrospinning for producing Nanofibrous Scaffolds, University of Tehran, Tehran, 2014
- Lab-on-Chips, University of Tehran, Tehran. 2013
- Tow Dimensional Framework and Membranes, Sharif University of Technology, Tehran, 2011

Scientific Societies Membership

- American Institute of Chemical Engineering, Since 2016
- American society of Mechanical Engineering, Since 2019
- Asia-Pacific Chemical, Biological& Pharmaceutical Engineering Society, Since 2012
- Iranian Elite Foundation, Since 2009
- Chemical Engineering Society of Iran, Since 2007

Languages

- English: Excellent (**TOEFL**: 615 pbt, 102 ibt, **GRE**: Subject:98%)
- Azerbaijani: Mother Tongue
- Persian: Native
- Turkish: Fluent
- Russian: Moderate
- Arabic: Moderate

Extracurricular Activities

- Swimming, playing ping-pong, traveling, mountain climbing and camping
- Enjoying classical, pop and modern music
- Playing my favorite instruments: Guitars, Sitar and Harmonica

References

Nondependent:

- Professor Pirouz Kavehpour, Mechanical and Aerospace Engineering, Bioengineering, UCLA, USA, Email: pirouz@seas.ucla.edu
Phone: +1 (310) 825-6494, Website:Complex Fluids & Interfacial Physics Laboratory
- Professor Slava V. Rotkin, Frontier Professor at Pennsylvania State University, USA, Engineering Science & Mechanics,
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Dependent:

- Dr. Hassan Niknafs (Former rector and Dean at Khazar University)
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- Dr. Mojtaba Shariaty Niassar, Professor at Department of Chemical Eng.,
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