



Neshat Rahimpour

Date and place of birth: September 21, 1991– Sanandaj, Iran

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EDUCATION

Ph.D in Chemical Engineering

- ❖ **University:** University of Tehran, Iran, 2018-2024
- ❖ **Supervisor:** Prof. Hossein Bahmanyar [hbahmany@ut.ac.ir]
- ❖ **Thesis title:** Experimental investigation and modelling of hydrodynamics parameters in the pulsed Tenova extraction column

Academic Visitor

- ❖ **University:** University of Melbourne, Australia, July2023- December2023
- ❖ **Supervisor:** Prof. Kathryn Mumford [mumfordk@unimelb.edu.au]

M.Sc. in Chemical Engineering

- ❖ **University:** Amirkabir university of technology, Iran, 2015-2018
- ❖ **Supervisor:** Prof. Fariborz Rashidi [rashidi@aut.ac.ir]
- ❖ **Thesis title:** Performance evaluation of an photocatalytic reactor with visible light

B.Sc. in Chemical Engineering

- ❖ **University:** University of Kurdistan, Iran, 2011-2015
- ❖ **Dissertation title:** Evaluation of dimethyl ether production using indirect method in a Fixed bed reactor: mathematical modeling and optimization

AWARDS and HONORS

- ❖ Distinctive MSc student of the Amirkabir University of Technology, 2017
- ❖ Distinctive BSc student of the University of Kurdistan, 2015

SOFTWARE EXPERIENCES

- ❖ MATLAB
- ❖ HYSYS
- ❖ ASPEN
- ❖ COMSOL
- ❖ DESIGN-EXPERT

EDUCATIONAL ASSISTANT

- ❖ **High school:** Chemistry, Mathematic
- ❖ **B.Sc.:** Material and Energy balance, Heat transfer I
- ❖ **Ph.D:** Mass transfer

PUBLICATIONS

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- Z.S. Hosseini, H. Bahmanyar, **N. Rahimpour**, Ehsan Shir Khanlo, Mass transfer performance of pulsed disk and doughnut column (PDDC) in the extraction of active ingredients in peppermint extract obtained by hot percolation, *Canadian Society for Chemical Engineering*, 102, 2024, 1–12.
- N. Rahimpour**, H. Bahmanyar, A. Hemmati, Mehdi Asadollahzadeh, Forecasting Sauter mean droplet size and examining the range of droplet sizes in a Tenova liquid–liquid extraction column, *Scientific Reports*, 14, 2024, 3273.
- N. Rahimpour**, H. Bahmanyar, A. Hemmati, M. Asadollahzadeh, Investigation of dispersed phase holdup in a Tenova pulsed liquid-liquid extraction column, *Journal of the Taiwan Institute of Chemical Engineers*, 151, 2023, 105080
- N. Rahimpour**, M. Mollavali, F. Rashidi, A Comprehensive study on synthesis parameters of TiO₂ nanotube arrays: The effects on morphology and photocatalytic degradation of Para-NitroPhenol, *Physical Chemistry Research*, 9, 2021, 261-279.
- M. Seifhosseini, F. Rashidi, M. Rezaei, **N. Rahimpour**, Bias potential role in degradation of methyl orange in photocatalytic process, *Journal of Photochemistry and Photobiology A: Chemistry*, 360, 2018, 196-203.
- N. Rahimpour**, F. Rashidi, Modeling of a photocatalytic batch reactor for pollutant removal using photocatalyst nanoparticles: an analytical solution development, *International Journal of Environmental Science and Technology*, 16, 2018.
- N. Rahimpour**, F. Rashidi, Comprehensive review on fabrication techniques of nitrogen and iron co-doped TiO₂, *The 2nd Annual Conference of Green Engineering and Technologies For a Sustainable Future*, 2017.
- N. Rahimpour**, M. Keshavarz Moraveji, Free convection of water–Fe₃O₄ nanofluid in an inclined cavity subjected to a magnetic field: CFD modeling, sensitivity analysis, *Advanced Powder Technology*, In Press, Corrected Proof, 28, 2017, 1573-1584.
- N. Rahimpour**, T. Hatami, M. Angela A. Meireles, Modeling and optimization of supercritical fluid extraction of compounds from campomanesia xanthocarpa fruits: comparison between artificial and diffusion based models, *Food and Public Health*, 6, 2016, 1-7.
- N. Rahimpour**, K. Mehrabi, H. Bahmanyar, A. Rahbar-Kelishami, Examination of the droplet characteristics in the Tenova pulsed extraction column in the presence of mass transfer and nanoparticles, Revised and Under Review.

Books

Bahmanyar, H., & Rahimpour, N. (2025). *Unit Operations*. Tehran, Iran: Academic Center for Education, Culture and Research (ACECR) Press.