Curriculum Vitae

Associate Prof. **Arash Karimipour**

PhD of Mechanical Engineering (Energy Conversion).

Associate Professor of Department of Mechanical Engineering, Najafabad University, Iran.

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World's Top 2% Scientists 2021 (by Stanford University)

World's Top 2% Scientists 2020 (by Stanford University)

Web of Science Highly Cited Researcher 2019 (Top 1%)

https://recognition.webofsciencegroup.com/awards/highly-cited/2019/

H-index-Scopus: 69 **Papers in Scopus: 248** **Citations in Scopus: 10535**

https://www.scopus.com/authid/detail.uri?authorId=36806031700

https://scholar.google.com/citations?user=Mb5rpgkAAAAJ&hl=en

EDUCATION

Ph.D. in Mech. Eng., Energy Conversion (2012): University of Sistan and Baluchestan, Iran.

[in collaboration with Isfahan University of Technology and Sapienza University of Rome]

Ph.D. Thesis: Numerical Simulation of Flow and Heat Transfer in Macro and Micro Geometries Using the Lattice Boltzmann Method.

Supervisors:

Prof. AR Nejhadd, Sistan & Baluchistan University, Iran.

Prof. E. Shirani, Isfahan University of Technology, Iran.

Prof. A. DOrazio, Sapienza University of Rome, Italy.

RESEARCH INTERESTS

Energy; Renewable energy; Heat and fluid flow; Numerical simulations; Optimization; Micro electro mechanical systems (MEMS); Molecular Dynamics method; Lattice Boltzmann method; Nano fluid (Thermo-physical properties & Simulation)

PUBLICATIONS (ISI papers):

Esfahani, M.B.B., Mohammad Sajadi, S., Abu-Hamdeh, N.H., Bezzina, S., Abdollahi, A., Karimipour, A., Ghaemi, F., Baleanu, D.
The effect of sedimentation phenomenon of the additives silver nano particles on water pool boiling heat transfer coefficient: A comprehensive experimental study
(2022) Journal of Molecular Liquids, 345, art. no. 117891, .
https://www.scopus.com/inward/record.uri?eid=2-s2.0-85117788690&doi=10.1016%2fj.molliq.2021.117891&partnerID=40&md5=c32614a5c4e90b62f9582de4cf8af0d1

Abu-Hamdeh, N.H., Alazwari, M.A., Salilih, E.M., Mohammad Sajadi, S., Karimipour, A.
Improve the efficiency and heat transfer rate' trend prediction of a flat-plate solar collector via a solar energy installation by examine the Titanium Dioxide/Silicon Dioxide-water nanofluid
(2021) Sustainable Energy Technologies and Assessments, 48, art. no. 101623, .
https://www.scopus.com/inward/record.uri?eid=2-s2.0-85115298182&doi=10.1016%2fj.seta.2021.101623&partnerID=40&md5=b326f86f3eea01fad8c27d79bbbc1ce2

Abidi, A., Jokar, Z., Allahyari, S., Kolahi Sadigh, F., Mohammad Sajadi, S., Firouzi, P., Baleanu, D., Ghaemi, F., Karimipour, A.
Improve thermal performance of Simulated-Body-Fluid as a solution with an ion concentration close to human blood plasma, by additive Zinc Oxide and its composites: ZnO/Carbon Nanotube and ZnO/Hydroxyapatite
(2021) Journal of Molecular Liquids, 342, art. no. 117457, .
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Guo, H.-H., Yazid Bajuri, M., Alrabaiah, H., Muhammad, T., Mohammad Sajadi, S., Ghaemi, F., Baleanu, D., Karimipour, A.
The investigation of energy management and atomic interaction between coronavirus structure in the vicinity of aqueous environment of H2O molecules via molecular dynamics approach
(2021) Journal of Molecular Liquids, 341, art. no. 117430, .
https://www.scopus.com/inward/record.uri?eid=2-s2.0-85114789173&doi=10.1016%2fj.molliq.2021.117430&partnerID=40&md5=84356eb0ac5c60299854781af2b6fe37

Niknejadi, M., Afrand, M., Karimipour, A., Shahsavar, A., Isfahani, A.H.M.
An experimental study on the cooling efficiency of magnetite–water nanofluid in a twisted tube exposed to a rotating magnetic field
(2021) Journal of Thermal Analysis and Calorimetry, 146 (4), pp. 1893-1909.
https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089973149&doi=10.1007%2fs10973-020-10180-5&partnerID=40&md5=f473dc4bc4bd37bd754c6019ef726dd7

Shi, Y., allahyari, S., Mohammad Sajadi, S., Alazwari, M.A., Firouzi, P., Abu-Hamdeh, N.H., Ghaemi, F., Baleanu, D., Karimipour, A.
The Molecular dynamics study of atomic Management and thermal behavior of Al-Water Nanofluid: A two phase unsteady simulation
(2021) Journal of Molecular Liquids, 340, art. no. 117286, .
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Chaabane, R., D'orazio, A., Jemni, A., Karimipour, A., Ranjbarzadeh, R.
Convection inside nanofluid cavity with mixed partially boundary conditions
(2021) Energies, 14 (20), art. no. 6448, .
https://www.scopus.com/inward/record.uri?eid=2-s2.0-85116935938&doi=10.3390%2fen14206448&partnerID=40&md5=6f7205768a9a202976d3f1b0389afe5b

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Experimental investigation of the effectiveness of ultrasounds on increasing heat transfer coefficient of heat exchangers
(2021) International Communications in Heat and Mass Transfer, 127, art. no. 105575, .
https://www.scopus.com/inward/record.uri?eid=2-s2.0-85113722497&doi=10.1016%2fj.icheatmasstransfer.2021.105575&partnerID=40&md5=d7a15d9c0986acd126fdc95556b5aad0

Alazwari, M.A., Abu-Hamdeh, N.H., Khoshaim, A., Almitani, K.H., Karimipour, A.
Using phase change material as an energy-efficient technique to reduce energy demand in air handling unit integrated with absorption chiller and recovery unit–Applicable for high solar-irradiance regions
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Naderi, M., Karimipour, A.
Two-phase solid/liquid mixture of water/carbon nanotubes at the equilibration phase of atomic structures: Atomic value effects in a microchannel using the molecular dynamics method
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Mixed thermomagnetic convection of ferrofluid in a porous cavity equipped with rotating cylinders: LTE and LTNE models
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https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086094542&doi=10.1007%2fs10973-020-09866-7&partnerID=40&md5=d739d283ea171b156ccd14404a82c47c

Alazwari, M.A., Abu-Hamdeh, N.H., Khoshaim, A., Ashour, A.I., Nusier, O.K., Karimipour, A.
Effects of examine the phase change material through applying the solar collectors: exergy analysis of an air handling unit equipped with the heat recovery unit
(2021) Journal of Energy Storage, 41, art. no. 103002, .
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Fluid flow and heat transfer of the two-phase solid/liquid mixture at the equilibration phase structure via MD method: Atomic value effects in a case study of energy consumption and absorbed energy
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Investigation of the effect of adding nano-encapsulated phase change material to water in natural convection inside a rectangular cavity
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Development of the ANN–KIM composed model to predict the nanofluid energetic thermal conductivity via various types of nano-powders dispersed in oil
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Alazwari, M.A., Abu-Hamdeh, N.H., Nusier, O.K., Karimipour, A.
Vacancy defect influence on nanofluid flow and absorbed thermal energy in a nanochannel affected by Universal Force Field via composed approach of embedded atom model/molecular dynamics method
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Bantan, R.A.R., Abu-Hamdeh, N.H., Nusier, O.K., Karimipour, A.
The molecular dynamics study of aluminum nanoparticles effect on the atomic behavior of argon atoms inside zigzag nanochannel
(2021) Journal of Molecular Liquids, 331, art. no. 115714, .
https://www.scopus.com/inward/record.uri?eid=2-s2.0-85102040661&doi=10.1016%2fj.molliq.2021.115714&partnerID=40&md5=b835a251426dfa668d1f048d3f72fcdc

Taghipour, A., Karimipour, A., Afrand, M., Yaghoubi, S., Akbari, M.
Develop dissipative particle dynamics method to study the fluid flow and heat transfer of Ar and O2 flows in the micro- and nanochannels with precise atomic arrangement versus molecular dynamics approach
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Zheng, Y., Zhang, X., Soleimani Mobareke, M.T., Hekmatifar, M., Karimipour, A., Sabetvand, R.
Potential energy and atomic stability of H2O/CuO nanoparticles flow and heat transfer in non-ideal microchannel via molecular dynamic approach: the Green–Kubo method
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Eshgarf, H., Kalbasi, R., Maleki, A., Shadloo, M.S., karimipour, A.
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Sun, C., Taherifar, S., Malekahmadi, O., Karimipour, A., Karimipour, A., Bach, Q.-V.
Liquid Paraffin Thermal Conductivity with Additives Tungsten Trioxide Nanoparticles: Synthesis and Propose a New Composed Approach of Fuzzy Logic/Artificial Neural Network
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Dehkordi, K.G., Karimipour, A., Afrand, M., Toghraie, D., Isfahani, A.H.M.
Molecular dynamics simulation concerning nanofluid boiling phenomenon affected by the external electric field: Effects of number of nanoparticles through Pt, Fe, and Au microchannels
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Nguyen, Q., Naghieh, A., Kalbasi, R., Akbari, M., Karimipour, A., Tlili, I.

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(2021) Journal of Thermal Analysis and Calorimetry, 143 (3), pp. 2179-2187.
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Numerical study on the performance of a homogeneous charge compression ignition engine fueled with different blends of biodiesel
(2021) Journal of Thermal Analysis and Calorimetry, 143 (3), pp. 2695-2705.
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Three separated phase's equations regarding nano-encapsulated phase change material/multi-walled carbon nanotube–Fe3O4–water mixture in a porous half-annulus collector with corrugated wall using Buongiorno's model: Brownian and thermophoresis effects
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The experimental/numerical investigation of variations in strip speed, water shower pattern and water temperature on high-temperature strip cooling rate in hot strip mill
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