

INFORMAZIONI PERSONALI

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ESPERIENZA
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PhD of Mechanical Engineering (Energy Conversion).
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ISTRUZIONE E FORMAZIONE

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.

ULTERIORI INFORMAZIONI

Pubblicazioni

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, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85118792220&doi=10.1016%2fj.molliq.2021.117457&partnerID=40&md5=9c132e8be24cfc94c03650902916c55>

3
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., Shahsavari, 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, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85113309677&doi=10.1016%2fj.molliq.2021.117286&partnerID=40&md5=e1708006aca58419d81324799c88569e>
- 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>
- Azimy, H., Meghdadi Isfahani, A.H., Farahnakian, M., Karimipour, A.
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
(2021) *Journal of Energy Storage*, 42, art. no. 103080, .
4
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85112567041&doi=10.1016%2fj.est.2021.103080&partnerID=40&md5=245085529357e46887e5718efc043f5e>
- 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
(2021) *Journal of Molecular Liquids*, 339, art. no. 116820, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85109072181&doi=10.1016%2fj.molliq.2021.116820&partnerID=40&md5=bc5deff150672e4bc8035701d21ed8bd>
- Bamoon, P., Toghraie, D., Salarnia, M., Karimipour, A.
Mixed thermomagnetic convection of ferrofluid in a porous cavity equipped with rotating cylinders: LTE and LTNE models
(2021) *Journal of Thermal Analysis and Calorimetry*, 146 (1), pp. 187-226.
<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, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0->

- 85111317049&doi=10.1016%2fj.est.2021.103002&partnerID=40&md5=93d64a2b0905bd8b1c8cd3554fc6aa10
Abu-Hamdeh, N.H., Alsulami, R.A., Alimoradi, A., Karimipour, A.
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 (2021) *Journal of Molecular Liquids*, 337, art. no. 116384, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85106306933&doi=10.1016%2fj.molliq.2021.116384&partnerID=40&md5=593bcf8e964df4efdd6c916cbd794868>
Barnoon, P., Toghraie, D., Karimipour, A.
Application of rotating circular obstacles in improving ferrofluid heat transfer in an enclosure saturated with porous medium subjected to a magnetic field (2021) *Journal of Thermal Analysis and Calorimetry*, 145 (6), pp. 3301-3323.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086663005&doi=10.1007%2fs10973-020-09896-1&partnerID=40&md5=3b098cc804fc690615734cc502833bb7>
Abbasi, M., Esfahani, A.N., Golab, E., Golestanian, O., Ashouri, N., Sajadi, S.M., Ghaemi, F., Baleanu, D., Karimipour, A.
5
Effects of Brownian motions and thermophoresis diffusions on the hematocrit and LDL concentration/diameter of pulsatile non-Newtonian blood in abdominal aortic aneurysm (2021) *Journal of Non-Newtonian Fluid Mechanics*, 294, art. no. 104576, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85107312683&doi=10.1016%2fj.jnnfm.2021.104576&partnerID=40&md5=d7e7725d46cbfd77de72ad7f577870da>
Golab, E., Goudarzi, S., Kazemi-Varnamkhasti, H., Amigh, H., Ghaemi, F., Baleanu, D., Karimipour, A.
Investigation of the effect of adding nano-encapsulated phase change material to water in natural convection inside a rectangular cavity (2021) *Journal of Energy Storage*, 40, art. no. 102699, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85106979213&doi=10.1016%2fj.est.2021.102699&partnerID=40&md5=c2368a3a6e720e813db9baf964fe672c>
Mei, X., Li, Z., Bagherzadeh, S.A., Karimipour, A., Bahrami, M., Karimipour, A.
Development of the ANN–KIM composed model to predict the nanofluid energetic thermal conductivity via various types of nano-powders dispersed in oil (2021) *Journal of Thermal Analysis and Calorimetry*, 145 (4), pp. 2123-2128.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091057685&doi=10.1007%2fs10973-020-10212-0&partnerID=40&md5=fc22a1ac3f882fed19630e711c71a449>
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 (2021) *Journal of Molecular Liquids*, 333, art. no. 115927, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85103382501&doi=10.1016%2fj.molliq.2021.115927&partnerID=40&md5=7ef30b21193dbb405a1d63a4761b73dc>
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 (2021) *Journal of Thermal Analysis and Calorimetry*, 144 (6), pp. 2575-2586.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85094682246&doi=10.1007%2fs10973-020-10329-2&partnerID=40&md5=3c0c68124fc4573c325063ad426e2d10>
6
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
(2021) *Journal of Thermal Analysis and Calorimetry*, 144 (6), pp. 2515-2523.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088821019&doi=10.1007%2fs10973-020-10054-w&partnerID=40&md5=1ee6a7ac320e89452d8475d23201d012>
- Eshgarf, H., Kalbasi, R., Maleki, A., Shadloo, M.S., Karimipour, A.
A review on the properties, preparation, models and stability of hybrid nanofluids to optimize energy consumption
(2021) *Journal of Thermal Analysis and Calorimetry*, 144 (5), pp. 1959-1983.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087794807&doi=10.1007%2fs10973-020-09998-w&partnerID=40&md5=a85a9f0a17bb520393d2d7b9ac56b906>
- Taghipour, A., Karimipour, A., Afrand, M., Yaghoubi, S., Akbari, M.
Magnetic field effects on O₂/Ar liquid flow through a platinum micro-channel via dissipative particle molecular dynamics approach
(2021) *Journal of Molecular Liquids*, 326, art. no. 115286, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85099386077&doi=10.1016%2fj.molliq.2021.115286&partnerID=40&md5=821d98af789e393bc5c1ab8769093817>
- Sun, C., Taherifar, S., Malekhamadi, 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
(2021) *Arabian Journal for Science and Engineering*, 46 (3), pp. 2543-2552.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85098595908&doi=10.1007%2fs13369-020-05151-9&partnerID=40&md5=80b17bff0420c2b9ecc8aa71f48874eb>
- 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
(2021) *Journal of Molecular Liquids*, 324, art. no. 114775, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096370548&doi=10.1016%2fj.molliq.2020.114775&partnerID=40&md5=32c5e1fb13cd7c3c936ed1ed1b91bb22>
- Nguyen, Q., Beni, M.H., Parsian, A., Malekhamadi, O., Karimipour, A.
Discrete ordinates thermal radiation with mixed convection to involve nanoparticles absorption, scattering and dispersion along radiation beams through the nanofluid
(2021) *Journal of Thermal Analysis and Calorimetry*, 143 (3), pp. 2801-2824.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087746367&doi=10.1007%2fs10973-020-10005-5&partnerID=40&md5=d4f32015919181a691cfb426bb165c37>
- Nguyen, Q., Naghieh, A., Kalbasi, R., Akbari, M., Karimipour, A., Tili, I.
7
Efficacy of incorporating PCMs into the commercial wall on the energy-saving annual thermal analysis
(2021) *Journal of Thermal Analysis and Calorimetry*, 143 (3), pp. 2179-2187.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084148918&doi=10.1007%2fs10973-020-09713-9&partnerID=40&md5=c97db23aa3736366e428a7da5e0e71d2>
- Abdelmalek, Z., Alamian, R., Safdari Shadloo, M., Maleki, A., Karimipour, A.
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.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082861186&doi=10.1007%2fs10973-020-09513-1&partnerID=40&md5=6f72588020e7469d8cb8e6b1a4c5eb7c>
- Han, L., Lu, C., Yumashev, A., Bahrami, D., Kalbasi, R., Jahangiri, M., Karimipour, A., Band, S.S., Chau, K.-W., Mosavi, A.
Numerical investigation of magnetic field on forced convection heat transfer and entropy generation in a microchannel with trapezoidal ribs
(2021) *Engineering Applications of Computational Fluid Mechanics*, 15 (1), pp. 1746-1760.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85118788162&doi=10.1080%2f19942060.2021.1984991&partnerID=40&md5=b9a0ff76de69edefbee94f3f3c7d7ae6>
- Alian Moghadam, R., Mohammad Sajadi, S., Abu-Hamdeh, N.H., Bezzina, S., Kalbasi, R., Karimipour, A., Ghaemi, F., Baleanu, D.
Water molecules adsorption by a porous carbon matrix in the presence of NaCl impurities using

- molecular dynamic simulation
(2021) Journal of Molecular Liquids, art. no. 117998, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85118750326&doi=10.1016%2fj.molliq.2021.117998&partnerID=40&md5=6cbb10d6f850bb7252f7eeb4bbc55cff>
Dibaji, A., Bagherzadeh, S.A., Karimipour, A.
- Water–copper nanofluid flow in flat and ribbed microchannels: numerical modeling and optimization
(2021) International Journal of Numerical Methods for Heat and Fluid Flow, 31 (10), pp. 3219-3244.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85113744436&doi=10.1108%2fHFF-11-2020-0683&partnerID=40&md5=d0360e9bb6f8da378eba4924090d24d7>
Cheng, L., Zhu, Y., Band, S.S., Bahrami, D., Kalbasi, R., Karimipour, A., Jahangiri, M., Chau, K.-W., Mosavi, A.
- Role of gradients and vortexes on suitable location of discrete heat sources on a sinusoidal-wall microchannel
(2021) Engineering Applications of Computational Fluid Mechanics, 15 (1), pp. 1176-1190.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85112649584&doi=10.1080%2f19942060.2021.1953608&partnerID=40&md5=e19d2ddf198602b6923c2578ab95e420>
8
- Abu-Hamdeh, Melaibari, A.A., Alquthami, T.S., Khoshaim, A., Oztop, H.F., Karimipour, A.
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
(2021) Mathematical Methods in the Applied Sciences, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85099107303&doi=10.1002%2fmma.7086&partnerID=40&md5=85f176f1b7d5f1a228412917b81e10c4>
c4
- Nguyen, Q., Bagherzadeh, S.A., Parsian, A., Akbari, M., Karimipour, A., Mosavi, A.
Nonlinear model identification of dissimilar laser joining of S.S 304 and ABS using the Hammerstein–Wiener method
(2021) Optik, 225, art. no. 165649, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85094183753&doi=10.1016%2fj.ijleo.2020.165649&partnerID=40&md5=9c5f7d60f3db7606b4b02bbd7177a5a4>
d7177a5a4
- Zheng, Y., Zhang, X., Nouri, M., Amini, A., Karimipour, A., Hekmatifar, M., Sabetvand, R., Ngooyen, Q., Karimipour, A.
Atomic rheology analysis of the external magnetic field effects on nanofluid in non-ideal microchannel via molecular dynamic method
(2021) Journal of Thermal Analysis and Calorimetry, 143 (2), pp. 1655-1663.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091075944&doi=10.1007%2fs10973-020-10191-2&partnerID=40&md5=4ed64f4378919ed1adf81131160232b9>
b9
- Yan, S.-R., Kalbasi, R., Parvin, A., Tian, X.-X., Karimipour, A.
Comparison of Nusselt number and stream function in tall and narrow enclosures in the mixed convection of hybrid nanofluid
(2021) Journal of Thermal Analysis and Calorimetry, 143 (2), pp. 1599-1609.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084980497&doi=10.1007%2fs10973-020-09809-2&partnerID=40&md5=930c612d35a3528f8ba04ccbbf5a9487>
87
- Chen, Z., Akbari, M., Forouharmanesh, F., Keshani, M., Akbari, M., Afrand, M., Karimipour, A.
A new correlation for predicting the thermal conductivity of liquid refrigerants
(2021) Journal of Thermal Analysis and Calorimetry, 143 (1), pp. 795-800.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078611808&doi=10.1007%2fs10973-019-09238-w&partnerID=40&md5=b448c63316b514864bd00daf33a09d65>
65
- Niknejadi, M., Afrand, M., Karimipour, A., Shahsavari, A., Meghdadi Isfahani, A.H.
Experimental investigation of the hydrothermal aspects of water–Fe₃O₄ nanofluid inside a twisted tube
(2021) Journal of Thermal Analysis and Calorimetry, 143 (1), pp. 801-810.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85078586249&doi=10.1007%2fs10973-020-09271-0&partnerID=40&md5=1bc254e896756a4a3e6e30932b414c8c>
c8c
- Karimi Kerdabadi, J., Haghani-Manesh, M., Karimipour, A., Toghraie, D., Tilili, I.
9

- 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
(2021) *Journal of Thermal Analysis and Calorimetry*, 143 (1), pp. 293-308.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85077602968&doi=10.1007%2fs10973-019-09052-4&partnerID=40&md5=9032394a4ef27fc8f0eca1eccc1a1a7c>
- Mosavi, A., Soleimani, A., Karimi, A., Akbari, M., Karimipour, A., Karimipour, A.
Investigating the effect of process parameters on the mechanical properties and temperature distribution in fiber laser welding of AISI304 and AISI 420 sheet using response surface methodology
(2020) *Infrared Physics and Technology*, 111, art. no. 103478, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091641303&doi=10.1016%2fj.infrared.2020.103478&partnerID=40&md5=f4a10e1ed6c6fc6b47bef627046ccce8>
- Karimipour, A., Karimipour, A., Jolfaei, N.A., Hekmatifar, M., Toghraie, D., Sabetvand, R., Rostami, S.
Prediction of the interaction between HIV viruses and Human Serum Albumin (HSA) molecules using an equilibrium dynamics simulation program for application in bio medical science
(2020) *Journal of Molecular Liquids*, 318, art. no. 113989, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090414134&doi=10.1016%2fj.molliq.2020.113989&partnerID=40&md5=e839a4628e4eaaefabebdf1329fb2844>
- Asgari, A., Nguyen, Q., Karimipour, A., Bach, Q.-V., Hekmatifar, M., Sabetvand, R.
Investigation of additives nanoparticles and sphere barriers effects on the fluid flow inside a nanochannel impressed by an extrinsic electric field: A molecular dynamics simulation
(2020) *Journal of Molecular Liquids*, 318, art. no. 114023, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089667297&doi=10.1016%2fj.molliq.2020.114023&partnerID=40&md5=71ccb10722d306113c5a872eaac2ee4f>
- D'Orazio, A., Karimipour, A., Mosavi, A.
Develop lattice Boltzmann method and its related boundary conditions models for the benchmark oscillating walls by modifying hydrodynamic and thermal distribution functions
(2020) *European Physical Journal Plus*, 135 (11), art. no. 915, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096175643&doi=10.1140%2fepjp%2fs13360-020-00925-4&partnerID=40&md5=9e4d297c9b79b6325dfef2fc5fe9a4ef>
- Li, Z., D'Orazio, A., Karimipour, A., Bach, Q.-V.
Thermo-Hydraulic Performance of a Lubricant Containing Zinc Oxide Nano-Particles: A Two-Phase oil
(2020) *Journal of Energy Resources Technology, Transactions of the ASME*, 142 (11), art. no. 112107, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091880838&doi=10.1115%2f1.4047256&partnerID=40&md5=b83ce85d97397d7fd9d0bee2d0ec386e>
- Zheng, Y., Wang, S., D'Orazio, A., Karimipour, A., Afrand, M.
10
Forecasting and Optimization of the Viscosity of Nano-oil Containing Zinc Oxide Nanoparticles Using the Response Surface Method and Sensitivity Analysis
(2020) *Journal of Energy Resources Technology, Transactions of the ASME*, 142 (11), art. no. 113004, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091833763&doi=10.1115%2f1.4047257&partnerID=40&md5=8c2286be89977a99e0b6dcca489c6da>
- Arjmandfard, A., Toghraie, D., Mehmandoust, B., Hashemian, M., Karimipour, A.
The study of atomic porosity effect on water/Fe nanofluid flow in a microchannel with a molecular dynamics method
(2020) *Journal of Molecular Liquids*, 317, art. no. 114291, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090748029&doi=10.1016%2fj.molliq.2020.114291&partnerID=40&md5=16c34d6caf9aedfc3c417c03afa4955e>
- Arjmandfard, A., Toghraie, D., Mehmandoust, B., Hashemian, M., Karimipour, A.
Study the time evolution of nanofluid flow in a microchannel with various sizes of Fe nanoparticle using molecular dynamics simulation
(2020) *International Communications in Heat and Mass Transfer*, 118, art. no. 104874, .

- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090700489&doi=10.1016%2fj.icheatmasstransfer.2020.104874&partnerID=40&md5=920a51279ba2204aaa4ce59e6ba6e3df>
Alsarraf, J., Malekhamadi, O., Karimipour, A., Tlili, I., Karimipour, A., Ghashang, M.
Increase thermal conductivity of aqueous mixture by additives graphene nanoparticles in water via an experimental/numerical study: Synthesis, characterization, conductivity measurement, and neural network modeling
(2020) International Communications in Heat and Mass Transfer, 118, art. no. 104864, .
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090400924&doi=10.1016%2fj.icheatmasstransfer.2020.104864&partnerID=40&md5=800f870b5e945382a4ce6ede53c71ef0>
Zhang, Y., Xie, G., Karimipour, A.
Comprehensive analysis on the effect of asymmetric heat fluxes on microchannel slip flow and heat transfer via a lattice Boltzmann method
(2020) International Communications in Heat and Mass Transfer, 118, art. no. 104856, .
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090350048&doi=10.1016%2fj.icheatmasstransfer.2020.104856&partnerID=40&md5=982cd75b6b169cdb7acfb3fae1e4ba6>
Nguyen, Q., Rizvandi, R., Karimipour, A., Malekhamadi, O., Bach, Q.-V.
A Novel Correlation to Calculate Thermal Conductivity of Aqueous Hybrid Graphene Oxide/Silicon Dioxide Nanofluid: Synthesis, Characterizations, Preparation, and Artificial Neural Network Modeling
(2020) Arabian Journal for Science and Engineering, 45 (11), pp. 9747-9758.
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090304216&doi=10.1007%2fs13369-020-04885-w&partnerID=40&md5=a6e9edda74123a25c12c1f0d8dcdcc28>
11
Zheng, Y., Kalbasi, R., Karimipour, A., Liu, P., Bach, Q.-V.
Introducing a novel air handling unit based on focusing on turbulent exhaust air energy-exergy recovery potential
(2020) Journal of Energy Resources Technology, Transactions of the ASME, 142 (11), art. no. 112108, .
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85090171970&doi=10.1115%2f1.4047255&partnerID=40&md5=82c2e9fdf179e0751ee260ef005e47f0>
Shadloo, M.S., Rahmat, A., Karimipour, A., Wongwises, S.
Estimation of pressure drop of two-phase flow in horizontal long pipes using artificial neural networks
(2020) Journal of Energy Resources Technology, Transactions of the ASME, 142 (11), art. no. 112110, .
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089972992&doi=10.1115%2f1.4047593&partnerID=40&md5=4236f6cdf5e9515bc6a52ee31b62e1f2>
Karimipour, A., Toghraie, D., Abdulkareem, L.A., Alizadeh, A., Zarringhalam, M., Karimipour, A.
Roll of stenosis severity, artery radius and blood fluid behavior on the flow velocity in the arteries: Application in biomedical engineering
(2020) Medical Hypotheses, 144, art. no. 109864, .
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086470439&doi=10.1016%2fj.mehy.2020.109864&partnerID=40&md5=c94c01c279da9717cdd14aa623d08db3>
Karimipour, A., Mokhtari, H., Akbari, M., Toghraie, D., Karimipour, A.
Simulation of blood flow into the popliteal artery to explain the effect of peripheral arterial disease: Investigation the conditions and effects of different foot states during the daily activity of the patient
(2020) Computer Methods and Programs in Biomedicine, 195, art. no. 105638, .
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087424520&doi=10.1016%2fj.cmpb.2020.105638&partnerID=40&md5=81cf527c41c9d2e0e7c5392f2baad258>
Jafarzadeh, S., Nasiri Sadr, A., Kaffash, E., Goudarzi, S., Golab, E., Karimipour, A.
The Effect of Hematocrit and Nanoparticles Diameter on Hemodynamic Parameters and Drug Delivery in Abdominal Aortic Aneurysm with Consideration of Blood Pulsatile Flow
(2020) Computer Methods and Programs in Biomedicine, 195, art. no. 105545, .
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085928077&doi=10.1016%2fj.cmpb.2020.105545&partnerID=40&md5=cac156993c3d37150eeaf3ad120ef06b>

- Goudarzi, S., Shekaramiz, M., Omidvar, A., Golab, E., Karimipour, A., Karimipour, A.
 Nanoparticles migration due to thermophoresis and Brownian motion and its impact on Ag-MgO/Water hybrid nanofluid natural convection
 (2020) Powder Technology, 375, pp. 493-503.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089392040&doi=10.1016%2fj.powtec.2020.07.115&partnerID=40&md5=2472aceff726d1cb0e37b86a7b53fc3c>
 12
- Moradi, I., Karimipour, A., Afrand, M., Li, Z., Bach, Q.-V.
 Three-dimensional numerical simulation of external fluid flow and heat transfer of a heat exchanger in a wind tunnel using porous media model
 (2020) Journal of Thermal Analysis and Calorimetry, 141 (5), pp. 1647-1667.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089991761&doi=10.1007%2fs10973-020-10184-1&partnerID=40&md5=a4bee15d40e812035549d837489867e5>
- Nguyen, Q., Sedeh, S.N., Toghraie, D., Kalbasi, R., Karimipour, A.
 Numerical simulation of the ferro-nanofluid flow in a porous ribbed microchannel heat sink: investigation of the first and second laws of thermodynamics with single-phase and two-phase approaches
 (2020) Journal of the Brazilian Society of Mechanical Sciences and Engineering, 42 (9), art. no. 492, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089958205&doi=10.1007%2fs40430-020-02534-9&partnerID=40&md5=d8406a3ef73286f24deb361d1031eb29>
- Ghani Dehkordi, K., Karimipour, A., Afrand, M., Toghraie, D., Meghdadi Isfahani, A.H.
 The Electric Field and Microchannel Type Effects on H₂O/Fe₃O₄ Nanofluid Boiling Process: Molecular Dynamics Study
 (2020) International Journal of Thermophysics, 41 (9), art. no. 132, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088382461&doi=10.1007%2fs10765-020-02714-8&partnerID=40&md5=4a8c8cd6faaa12d241a782871dba561f>
- Hasan Ajili, S., Haratian, M., Karimipour, A., Bach, Q.-V.
 Non-uniform Slab Heating Pattern in a Preheating Furnace to Reduce Fuel Consumption: Burners' Load Distribution Effects Through Semitransparent Medium via Discreet Ordinates' Thermal Radiation and k-ε Turbulent Model
 (2020) International Journal of Thermophysics, 41 (9), art. no. 128, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088135955&doi=10.1007%2fs10765-020-02701-z&partnerID=40&md5=41a12a30c3160edd8cf595ddd7c88935>
- Asgari, A., Nguyen, Q., Karimipour, A., Bach, Q.-V., Hekmatifar, M., Sabetvand, R.
 Develop Molecular Dynamics Method to Simulate the Flow and Thermal Domains of H₂O/Cu Nanofluid in a Nanochannel Affected by an External Electric Field
 (2020) International Journal of Thermophysics, 41 (9), art. no. 126, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087769146&doi=10.1007%2fs10765-020-02708-6&partnerID=40&md5=94f02f7a9ded96d2d1baa4aaf74bc054>
- Farzinpour, M., Toghraie, D., Mehmandoust, B., Aghadavoudi, F., Karimipour, A.
 Molecular dynamics simulation of ferronanofluid behavior in a nanochannel in the presence of constant and time-dependent magnetic fields
 (2020) Journal of Thermal Analysis and Calorimetry, 141 (6), pp. 2625-2633.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085374994&doi=10.1007%2fs10973-020-09846-x&partnerID=40&md5=ed9519b77cd1d5d479c9203ba6e0fd81>
- Liu, X., Toghraie, D., Hekmatifar, M., Akbari, O.A., Karimipour, A., Afrand, M.
 13
 Numerical investigation of nanofluid laminar forced convection heat transfer between two horizontal concentric cylinders in the presence of porous medium
 (2020) Journal of Thermal Analysis and Calorimetry, 141 (5), pp. 2095-2108.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85079439972&doi=10.1007%2fs10973-020-09406-3&partnerID=40&md5=e6e467c8dced9046c3166f8fc73938f>
- Yan, S.-R., Aghakhani, S., Karimipour, A.
 Influence of a membrane on nanofluid heat transfer and irreversibilities inside a cavity with two constant-temperature semicircular sources on the lower wall: Applicable to solar collectors
 (2020) Physica Scripta, 95 (8), art. no. 085702, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088634550&doi=10.1088%2f1402-4896%2fab93e4&partnerID=40&md5=159f932806b16ac5cd575a1bbb1777f6>
- Hosseini, M., Afrouzi, H.H., Yarmohammadi, S., Arasteh, H., Toghraie, D., Amiri, A.J., Karimipour, A.

- Optimization of FX-70 refrigerant evaporative heat transfer and fluid flow characteristics inside the corrugated tubes using multi-objective genetic algorithm
(2020) Chinese Journal of Chemical Engineering, 28 (8), pp. 2142-2151.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087486111&doi=10.1016%2fj.cjche.2020.05.036&partnerID=40&md5=654803e32c600d5e46a297be23b7e294>
- Karimipour, A., Malekhamadi, O., Karimipour, A., Shahgholi, M., Li, Z.
Thermal Conductivity Enhancement via Synthesis Produces a New Hybrid Mixture Composed of Copper Oxide and Multi-walled Carbon Nanotube Dispersed in Water: Experimental Characterization and Artificial Neural Network Modeling
(2020) International Journal of Thermophysics, 41 (8), art. no. 116, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086798415&doi=10.1007%2fs10765-020-02702-y&partnerID=40&md5=ff4b6a15b89ca05f486d02c54b551a51>
- Yongbin, Y., Bagherzadeh, S.A., Azimy, H., Akbari, M., Karimipour, A.
Comparison of the artificial neural network model prediction and the experimental results for cutting region temperature and surface roughness in laser cutting of AL6061 T6 alloy
(2020) Infrared Physics and Technology, 108, art. no. 103364, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084796937&doi=10.1016%2fj.infrared.2020.103364&partnerID=40&md5=95310ef661b5c559ef0db35608e2f413>
- Nguyen, Q., Azadkhou, A., Akbari, M., Panjehpour, A., Karimipour, A.
Experimental investigation of temperature field and fusion zone microstructure in dissimilar pulsed laser welding of austenitic stainless steel and copper
(2020) Journal of Manufacturing Processes, 56, pp. 206-215.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084390004&doi=10.1016%2fj.jmapro.2020.03.037&partnerID=40&md5=31cdc45f08716e334c70d6a748223171>
- 14
- Yan, S.-R., Fazilati, M.A., Samani, N., Ghasemi, H., Toghraie, D., Nguyen, Q., Karimipour, A.
Energy efficiency optimization of the waste heat recovery system with embedded phase change materials in greenhouses: A thermo-economic-environmental study
(2020) Journal of Energy Storage, 30, art. no. 101445, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083434093&doi=10.1016%2fj.est.2020.101445&partnerID=40&md5=3f94b8d4e726498fcb5373a0ef3f81b7>
- Sharifzadeh, B., Kalbasi, R., Jahangiri, M., Toghraie, D., Karimipour, A.
Computer modeling of pulsatile blood flow in elastic artery using a software program for application in biomedical engineering
(2020) Computer Methods and Programs in Biomedicine, 192, art. no. 105442, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081665226&doi=10.1016%2fj.cmpb.2020.105442&partnerID=40&md5=a67e64827099ca0ead7ca8372aff6434>
- Yan, S.-R., Kalbasi, R., Nguyen, Q., Karimipour, A.
Sensitivity of adhesive and cohesive intermolecular forces to the incorporation of MWCNTs into liquid paraffin: Experimental study and modeling of surface tension
(2020) Journal of Molecular Liquids, 310, art. no. 113235, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084333715&doi=10.1016%2fj.molliq.2020.113235&partnerID=40&md5=0d4a6a5703dd2b78e205a4972d1d9a32>
- Jiang, Y., Dehghan, S., Karimipour, A., Toghraie, D., Li, Z., Tlili, I.
Effect of copper nanoparticles on thermal behavior of water flow in a zig-zag nanochannel using molecular dynamics simulation
(2020) International Communications in Heat and Mass Transfer, 116, art. no. 104652, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086080989&doi=10.1016%2fj.icheatmasstransfer.2020.104652&partnerID=40&md5=f36feb5a40237a96043515c386ab8a12>
- He, W., Ruhani, B., Toghraie, D., Izadpanahi, N., Esfahani, N.N., Karimipour, A., Afrand, M.
Using of Artificial Neural Networks (ANNs) to predict the thermal conductivity of Zinc Oxide–Silver (50%–50%)/Water hybrid Newtonian nanofluid
(2020) International Communications in Heat and Mass Transfer, 116, art. no. 104645, .

- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085174867&doi=10.1016%2fj.icheatmasstransfer.2020.104645&partnerID=40&md5=4d1a8289a387a14fa00c79d246b7d136>
Zheng, Y., Yaghoubi, S., Dezfulizadeh, A., Aghakhani, S., Karimipour, A., Tlili, I.
Free convection/radiation and entropy generation analyses for nanofluid of inclined square enclosure with uniform magnetic field
(2020) *Journal of Thermal Analysis and Calorimetry*, 141 (1), pp. 635-648.
15
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082806168&doi=10.1007%2fs10973-020-09497-y&partnerID=40&md5=87b3225cc2b4f38abadf5e22f9874cef>
Tian, Z., Rostami, S., Taherialekouhi, R., Karimipour, A., Moradikazerouni, A., Yarmand, H., Zulkifli, N.W.B.M.
Prediction of rheological behavior of a new hybrid nanofluid consists of copper oxide and multi wall carbon nanotubes suspended in a mixture of water and ethylene glycol using curve-fitting on experimental data
(2020) *Physica A: Statistical Mechanics and its Applications*, 549, art. no. 124101, .
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85077719117&doi=10.1016%2fj.physa.2019.124101&partnerID=40&md5=7c004762e191ca38b8b0bf2a035456a5>
Ahmadi, B., Golneshan, A.A., Arasteh, H., Karimipour, A., Bach, Q.-V.
Energy and exergy analysis and optimization of a gas turbine cycle coupled by a bottoming organic Rankine cycle
(2020) *Journal of Thermal Analysis and Calorimetry*, 141 (1), pp. 495-510.
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076209682&doi=10.1007%2fs10973-019-09088-6&partnerID=40&md5=cfe269c7186c346565e1531d1f9c870>
Soltani, F., Toghraie, D., Karimipour, A.
Experimental measurements of thermal conductivity of engine oil-based hybrid and mono nanofluids with tungsten oxide (WO₃) and MWCNTs inclusions
(2020) *Powder Technology*, 371, pp. 37-44.
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085710285&doi=10.1016%2fj.powtec.2020.05.059&partnerID=40&md5=e667a376a74d73764ea74adb261cc8ca>
Farzinpour, M., Toghraie, D., Mehmandoust, B., Aghadavoudi, F., Karimipour, A.
Molecular dynamics study of barrier effects on Ferro- nanofluid flow in the presence of constant and time-dependent external magnetic fields
(2020) *Journal of Molecular Liquids*, 308, art. no. 113152, .
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084082342&doi=10.1016%2fj.molliq.2020.113152&partnerID=40&md5=29b697fd79d182d5cdaff41aa23d2522>
Yan, S.-R., Kalbasi, R., Nguyen, Q., Karimipour, A.
Rheological behavior of hybrid MWCNTs-TiO₂/EG nanofluid: A comprehensive modeling and experimental study
(2020) *Journal of Molecular Liquids*, 308, art. no. 113058, .
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083031383&doi=10.1016%2fj.molliq.2020.113058&partnerID=40&md5=164818df8a39f1cba25a96621f79d6d6>
Tian, X.-X., Kalbasi, R., Qi, C., Karimipour, A., Huang, H.-L.
16
Efficacy of hybrid nano-powder presence on the thermal conductivity of the engine oil: An experimental study
(2020) *Powder Technology*, 369, pp. 261-269.
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085272433&doi=10.1016%2fj.powtec.2020.05.004&partnerID=40&md5=970c652275164618458b332d71d12361>
Zheng, Y., Shadloo, M.S., Nasiri, H., Maleki, A., Karimipour, A., Tlili, I.
Prediction of viscosity of biodiesel blends using various artificial model and comparison with empirical correlations
(2020) *Renewable Energy*, 153, pp. 1296-1306.
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85080142484&doi=10.1016%2fj.renene.2020.02.087&partnerID=40&md5=6175fab8ed4f0a205b7cd872e1c5dcdc>

- Salimpour, M.R., Karimi Darvanjooghi, M.H., Abdollahi, A., Karimipour, A., Goodarzi, M.
Providing a model for C_{sf} according to pool boiling convection heat transfer of water/ferrous oxide nanofluid using sensitivity analysis
(2020) International Journal of Numerical Methods for Heat and Fluid Flow, 30 (6), pp. 2867-2881.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85067844699&doi=10.1108%2fHFF-01-2019-0009&partnerID=40&md5=a09c026f6029fb2dbb56ab2c252bc383>
- Tian, Z., Bagherzadeh, S.A., Ghani, K., Karimipour, A., Abdollahi, A., Bahrami, M., Safaei, M.R.
Nonlinear function estimation fuzzy system (NFEFS) as a novel statistical approach to estimate nanofluids' thermal conductivity according to empirical data
(2020) International Journal of Numerical Methods for Heat and Fluid Flow, 30 (6), pp. 3267-3281.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85067840938&doi=10.1108%2fHFF-12-2018-0768&partnerID=40&md5=57dfa9d2261602748fb3b2bd3372e549>
- Mozaffari, M., D'Orazio, A., Karimipour, A., Abdollahi, A., Safaei, M.R.
Lattice Boltzmann method to simulate convection heat transfer in a microchannel under heat flux: Gravity and inclination angle on slip-velocity
(2020) International Journal of Numerical Methods for Heat and Fluid Flow, 30 (6), pp. 3371-3398.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066980358&doi=10.1108%2fHFF-12-2018-0821&partnerID=40&md5=dc64523d27519210de643c33435ab479>
- Yan, S.-R., Shirani, N., Zarringhalam, M., Toghraie, D., Nguyen, Q., Karimipour, A.
Prediction of boiling flow characteristics in rough and smooth microchannels using molecular dynamics simulation: Investigation the effects of boundary wall temperatures
(2020) Journal of Molecular Liquids, 306, art. no. 112937, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082386552&doi=10.1016%2fj.molliq.2020.112937&partnerID=40&md5=584325330ad34b8c0f0e6a356b05a726>
- Li, Z., Moradi, I., Nguyen, Q., Karimipour, A., Afrand, M., Tlili, I., Incecik, A.
17
Three-dimensional simulation of wind tunnel diffuser to study the effects of different divergence angles on speed uniform distribution, pressure in outlet, and eddy flows formation in the corners
(2020) Physics of Fluids, 32 (5), art. no. 052006, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85089980497&doi=10.1063%2f5.0006068&partnerID=40&md5=a8242665ba87c102fd27da537f03871b>
- Chen, Z., Liu, P., Zare, A., Karimipour, A., Abdollahi, A., Tlili, I.
Evaluation of thermal conductivity of deionized water containing SDS-coated NiO nanoparticles under the influences of constant and alternative varied magnetic fields
(2020) Powder Technology, 367, pp. 143-156.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85082447412&doi=10.1016%2fj.powtec.2020.03.044&partnerID=40&md5=d752d3980bab381db701f663077a7e58>
- He, W., Bagherzadeh, S.A., Tahmasebi, M., Abdollahi, A., Bahrami, M., Moradi, R., Karimipour, A., Goodarzi, M., Bach, Q.-V.
A new method of black-box fuzzy system identification optimized by genetic algorithm and its application to predict mixture thermal properties
(2020) International Journal of Numerical Methods for Heat and Fluid Flow, 30 (5), pp. 2485-2499.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074034559&doi=10.1108%2fHFF-12-2018-0758&partnerID=40&md5=c317612385bd9dc26805a832ff9addbc>
- Bagherzadeh, S.A., Jalali, E., Sarafraz, M.M., Ali Akbari, O., Karimipour, A., Goodarzi, M., Bach, Q.-V.
Effects of magnetic field on micro cross jet injection of dispersed nanoparticles in a microchannel
(2020) International Journal of Numerical Methods for Heat and Fluid Flow, 30 (5), pp. 2683-2704.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073941377&doi=10.1108%2fHFF-02-2019-0150&partnerID=40&md5=6f7eaa1ce4126c65303ed4def827f690>
- Nazarafkan, H., Mehmandoust, B., Toghraie, D., Karimipour, A.
Numerical study of natural convection of nanofluid in a semi-circular cavity with lattice Boltzmann method
(2020) International Journal of Numerical Methods for Heat and Fluid Flow, 30 (5), pp. 2625-2637.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85069936356&doi=10.1108%2fHFF-11-2018-0686&partnerID=40&md5=71101dd1009d7569d0d6da1f27076133>
- Gholamalizadeh, E., Pahlevanzadeh, F., Ghani, K., Karimipour, A., Nguyen, T.K., Safaei, M.R.
Simulation of water/FMWCNT nanofluid forced convection in a microchannel filled with porous

- material under slip velocity and temperature jump boundary conditions
(2020) *International Journal of Numerical Methods for Heat and Fluid Flow*, 30 (5), pp. 2329-2349.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85067834529&doi=10.1108%2fHFF-01-2019-0030&partnerID=40&md5=cdf6fe5d28cdcd24f5788f87bf35ff6f>
Abdelmalek, Z., D'Orazio, A., Karimipour, A.
The effect of nanoparticle shape and microchannel geometry on fluid flow and heat transfer in a porous microchannel
(2020) *Symmetry*, 12 (4), art. no. 591, .
18
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087042211&doi=10.3390%2fSYM12040591&partnerID=40&md5=b0f0294a7a3fce9c5476f14a0b0d5c7c>
Geng, Y., Khodadadi, H., Karimipour, A., Reza Safaei, M., Nguyen, T.K.
A comprehensive presentation on nanoparticles electrical conductivity of nanofluids: Statistical study concerned effects of temperature, nanoparticles type and solid volume concentration
(2020) *Physica A: Statistical Mechanics and its Applications*, 542, art. no. 123432, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075428038&doi=10.1016%2fj.physa.2019.123432&partnerID=40&md5=64a33bd81054a191400210bc18c186a5>
Li, Y., Firouzi, M., Karimipour, A., Afrand, M.
Effect of an inclined partition with constant thermal conductivity on natural convection and entropy generation of a nanofluid under magnetic field inside an inclined enclosure: Applicable for electronic cooling
(2020) *Advanced Powder Technology*, 31 (2), pp. 645-657.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076523734&doi=10.1016%2fj.appt.2019.11.020&partnerID=40&md5=d93f710136790c219f82e445f970ebee>
He, W., Bagherzadeh, S.A., Shahrajabian, H., Karimipour, A., Jadidi, H., Bach, Q.-V.
Controlled elitist multi-objective genetic algorithm joined with neural network to study the effects of nano-clay percentage on cell size and polymer foams density of PVC/clay nanocomposites
(2020) *Journal of Thermal Analysis and Calorimetry*, 139 (4), pp. 2801-2810.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076103833&doi=10.1007%2fs10973-019-09059-x&partnerID=40&md5=a1908aa53d37597d99532048e9a1e9f3>
Wu, H., Beni, M.H., Moradi, I., Karimipour, A., Kalbasi, R., Rostami, S.
Heat transfer analysis of energy and exergy improvement in water-tube boiler in steam generation process
(2020) *Journal of Thermal Analysis and Calorimetry*, 139 (4), pp. 2791-2799.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075140546&doi=10.1007%2fs10973-019-09034-6&partnerID=40&md5=327bb3b8f7f3a39492a229944d3c619c>
Peng, Y., Zahedidastjerdi, A., Abdollahi, A., Amindoust, A., Bahrami, M., Karimipour, A., Goodarzi, M.
Investigation of energy performance in a U-shaped evacuated solar tube collector using oxide added nanoparticles through the emitter, absorber and transmittal environments via discrete ordinates radiation method
(2020) *Journal of Thermal Analysis and Calorimetry*, 139 (4), pp. 2623-2631.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071457415&doi=10.1007%2fs10973-019-08684-w&partnerID=40&md5=e9a68a3d48d83419d4540d8e0a6b07cd>
Wu, H., Torkian, P., Zarei, A., Moradi, I., Karimipour, A., Afrand, M.
Hydrodynamic and thermal flow in nanochannel to study effects of roughness by estimation the atoms positions via MD method
(2020) *International Journal of Numerical Methods for Heat and Fluid Flow*, 30 (1), pp. 452-467.
19
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076852430&doi=10.1108%2fHFF-09-2019-0711&partnerID=40&md5=e77aca6728e6c910f8e7a13f3a20cdda>
Peng, Y., Bahrami, G., Khodadadi, H., Karimi, A., Soleimani, A., Karimipour, A., Rostami, S.
Three dimensional numerical simulation of polymer electrolyte membrane fuel cell
(2020) *International Journal of Numerical Methods for Heat and Fluid Flow*, 30 (1), pp. 427-451.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076519125&doi=10.1108%2fHFF-09-2019-0719&partnerID=40&md5=03e3f2121213b9925f7574f963b3a481>
Ma, J., Shahsavari, A., Al-Rashed, A.A.A., Karimipour, A., Yarmand, H., Rostami, S.
Viscosity, cloud point, freezing point and flash point of zinc oxide/SAE50 nanolubricant

- (2020) Journal of Molecular Liquids, 298, art. no. 112045, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075835770&doi=10.1016%2fj.molliq.2019.112045&partnerID=40&md5=c220d283901a79032c3f79dcd9c0522a>
- Tian, Z., Abdollahi, A., Shariati, M., Amindoust, A., Arasteh, H., Karimipour, A., Goodarzi, M., Bach, Q.-V.
Turbulent flows in a spiral double-pipe heat exchanger: Optimal performance conditions using an enhanced genetic algorithm
- (2020) International Journal of Numerical Methods for Heat and Fluid Flow, 30 (1), pp. 39-53.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85073974707&doi=10.1108%2fHFF-04-2019-0287&partnerID=40&md5=939b92dd313d08682bee3e0c742ad8b2>
- Li, Z., Jamshidian, M., Mousavi, S., Karimipour, A., Tlili, I.
Develop a numerical approach of fuzzy logic type-2 to improve the reliability of a hydraulic automated guided vehicles
- (2020) International Journal of Numerical Methods for Heat and Fluid Flow, 31 (5), pp. 1396-1409.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85097276683&doi=10.1108%2fHFF-01-2019-0019&partnerID=40&md5=498f6921723b41c0588a0847a4d2959a>
- Jamalabadi, M.Y.A., Shadloo, M.S., Karimipour, A.
Maximum Obtainable Energy Harvesting Power from Galloping-Based Piezoelectrics
- (2020) Mathematical Problems in Engineering, 2020, art. no. 6140853, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85091868264&doi=10.1155%2f2020%2f6140853&partnerID=40&md5=a62d7b0abed0020419f67f1307a14820>
- Bahrami, D., Abbasian-Naghneh, S., Karimipour, A., Karimipour, A.
Efficacy of injectable rib height on the heat transfer and entropy generation in the microchannel by affecting slip flow
- (2020) Mathematical Methods in the Applied Sciences, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088451980&doi=10.1002%2fmma.6728&partnerID=40&md5=b1ff1f6670aa51c534116b61edbe5d8320>
- Nguyen, Q., Ghorbani, P., Bagherzadeh, S.A., Malekhamadi, O., Karimipour, A.
Performance of joined artificial neural network and genetic algorithm to study the effect of temperature and mass fraction of nanoparticles dispersed in ethanol
- (2020) Mathematical Methods in the Applied Sciences, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088142517&doi=10.1002%2fmma.6688&partnerID=40&md5=65a8c10538ff9c58e571b591413ebbac>
- Zhang, Y., Xie, G., Karimipour, A., Sundén, B.
LBM modeling and analysis on microchannel slip flow and heat transfer under different heating conditions
- (2020) Numerical Heat Transfer; Part A: Applications, pp. 159-179.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087913590&doi=10.1080%2f10407782.2020.1786289&partnerID=40&md5=3762e73f10905d30b5994d9a3c678231>
- Yan, S.-R., Kalbasi, R., Toghraie, D., Tian, X.-X., Nguyen, Q., Karimipour, A.
Modeling natural convective heat transfer within an inclined enclosure in the presence of copper oxide/water nanofluid
- (2020) Mathematical Methods in the Applied Sciences, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85087286456&doi=10.1002%2fmma.6576&partnerID=40&md5=454bdad7e4b647585fc17f87437390f1>
- Nguyen, Q., Jamali Ghahderijani, M., Bahrami, M., Ahangar, E.K., D'Orazio, A., Bach, Q.-V., Karimipour, A.
Develop Boltzmann equation to simulate non-Newtonian magneto-hydrodynamic nanofluid flow using power law magnetic Reynolds number
- (2020) Mathematical Methods in the Applied Sciences, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085579987&doi=10.1002%2fmma.6513&partnerID=40&md5=7b6e58257479447ca777d15ce852bcaa>

- Nguyen, Q., Bahrami, D., Kalbasi, R., Karimipour, A.
Functionalized Multi-Walled carbon Nano Tubes nanoparticles dispersed in water through an Magneto Hydro Dynamic nonsmooth duct equipped with sinusoidal-wavy wall: Diminishing vortex intensity via nonlinear Navier–Stokes equations
(2020) *Mathematical Methods in the Applied Sciences*, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085559280&doi=10.1002%2fmma.6528&partnerID=40&md5=acf49fbffe478e4f2d69dbe50ba08402>
- Du, C., Nguyen, Q., Malekahmadi, O., Mardani, A., Jokar, Z., Babadi, E., D'Orazio, A., Karimipour, A., Li, Z., Bach, Q.-V.
Thermal conductivity enhancement of nanofluid by adding multiwalled carbon nanotubes: Characterization and numerical modeling patterns
(2020) *Mathematical Methods in the Applied Sciences*, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085117174&doi=10.1002%2fmma.6466&partnerID=40&md5=f82abe9cc6657ad909810dafa3f3972421>
- Xu, Y., Nguyen, Q., Malekahmadi, O., Hadi, R., Jokar, Z., Mardani, A., Karimipour, A., Ranjbarzadeh, R., Li, Z., Bach, Q.-V.
Synthesis and characterization of additive graphene oxide nanoparticles dispersed in water: Experimental and theoretical viscosity prediction of non-Newtonian nanofluid
(2020) *Mathematical Methods in the Applied Sciences*, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85084700527&doi=10.1002%2fmma.6381&partnerID=40&md5=fd486d8377643dab96561443835bd8f7>
- Li, Y., Kalbasi, R., Karimipour, A., Sharifpur, M., Meyer, J.
Using of artificial neural networks (ANNs) to predict the rheological behavior of magnesium oxide-water nanofluid in a different volume fraction of nanoparticles, temperatures, and shear rates
(2020) *Mathematical Methods in the Applied Sciences*, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083637560&doi=10.1002%2fmma.6418&partnerID=40&md5=a9dd674905ee6c9f5abfa8d4554f151a>
- Bakar, N.A., Roslan, R., Karimipour, A.
Magnetic field effect on mixed convection heat transfer in a lid-driven rectangular cavity
(2020) *CFD Letters*, 12 (1), pp. 13-21.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85083114294&partnerID=40&md5=7e870ba79d4701c5f77f31ca6860edfe>
- Li, Z., Rostam, K., Panjehpour, A., Akbari, M., Karimipour, A., Rostami, S.
Experimental and numerical study of temperature field and molten pool dimensions in dissimilar thickness laser welding of Ti6Al4V alloy
(2020) *Journal of Manufacturing Processes*, 49, pp. 438-446.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076549493&doi=10.1016%2fj.jmapro.2019.11.024&partnerID=40&md5=06473c96c7447e29ac57fe89d5f8e2e3>
- He, W., Toghraie, D., Lotfipour, A., Pourfattah, F., Karimipour, A., Afrand, M.
Effect of twisted-tape inserts and nanofluid on flow field and heat transfer characteristics in a tube
(2020) *International Communications in Heat and Mass Transfer*, 110, art. no. 104440, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85076121623&doi=10.1016%2fj.icheatmasstransfer.2019.104440&partnerID=40&md5=445161adb772f3b4a6fe2962bd32b709>
- Li, Z., Asadi, S., Karimipour, A., Abdollahi, A., Tlili, I.
Experimental study of temperature and mass fraction effects on thermal conductivity and dynamic viscosity of SiO₂-oleic acid/liquid paraffin nanofluid
(2020) *International Communications in Heat and Mass Transfer*, 110, art. no. 104436, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075776195&doi=10.1016%2fj.icheatmasstransfer.2019.104436&partnerID=40&md5=2d1f4962cc5c3e7ae0fef11f7858dff>
- Alsarraf, J., Shahsavari, A., Khaki, M., Ranjbarzadeh, R., Karimipour, A., Afrand, M.
22
Numerical investigation on the effect of four constant temperature pipes on natural cooling of

- electronic heat sink by nanofluids: A multifunctional optimization
(2020) *Advanced Powder Technology*, 31 (1), pp. 416-432.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075435288&doi=10.1016%2fj.ap.2019.10.035&partnerID=40&md5=314b39e21f7bfa237f5da0ac3bdee91e>
- Li, Z., Shahrajabian, H., Bagherzadeh, S.A., Jadidi, H., Karimipour, A., Tlili, I.
Effects of nano-clay content, foaming temperature and foaming time on density and cell size of PVC matrix foam by presented Least Absolute Shrinkage and Selection Operator statistical regression via suitable experiments as a function of MMT content
(2020) *Physica A: Statistical Mechanics and its Applications*, 537, art. no. 122637, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072267406&doi=10.1016%2fj.physa.2019.122637&partnerID=40&md5=2f415364b37001c3dd93eeb6840df46a>
- Varzaneh, A.A., Toghraie, D., Karimipour, A.
Comprehensive simulation of nanofluid flow and heat transfer in straight ribbed microtube using single-phase and two-phase models for choosing the best conditions
(2020) *Journal of Thermal Analysis and Calorimetry*, 139 (1), pp. 701-720.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85066111714&doi=10.1007%2fs10973-019-08381-8&partnerID=40&md5=26502b69662d5cd2d2e6f228593ee715>
- Geng, Y., Akbari, M., Karimipour, A., Karimi, A., Soleimani, A., Afrand, M.
Effects of the laser parameters on the mechanical properties and microstructure of weld joint in dissimilar pulsed laser welding of AISI 304 and AISI 420
(2019) *Infrared Physics and Technology*, 103, art. no. 103081, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074265564&doi=10.1016%2fj.infrared.2019.103081&partnerID=40&md5=65d8f1e50053bd3ecb9ef9303e15b9c5>
- Liu, W.I., Malekahmadi, O., Bagherzadeh, S.A., Ghashang, M., Karimipour, A., Hasani, S., Tlili, I., Goodarzi, M.
A novel comprehensive experimental study concerned graphene oxide nanoparticles dispersed in water: Synthesise, characterisation, thermal conductivity measurement and present a new approach of RLSF neural network
(2019) *International Communications in Heat and Mass Transfer*, 109, art. no. 104333, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074231685&doi=10.1016%2fj.icheatmasstransfer.2019.104333&partnerID=40&md5=f010ce36997a1d77ee83cc43729e1dff>
- Rajabzadeh, B., Hojaji Najafabadi, M., Karimipour, A.
Effects of new methods of porosity arrangement on forced convection in a variable BDPM using numerical simulation
(2019) *International Journal of Thermal Sciences*, 146, art. no. 106004, .
23
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071846213&doi=10.1016%2fj.ijthermalsci.2019.106004&partnerID=40&md5=bca27cdd29a7d76f6e564ae036a6155b>
- Tian, Z., Arasteh, H., Parsian, A., Karimipour, A., Safaei, M.R., Nguyen, T.K.
Estimate the shear rate & apparent viscosity of multi-phased non-Newtonian hybrid nanofluids via new developed Support Vector Machine method coupled with sensitivity analysis
(2019) *Physica A: Statistical Mechanics and its Applications*, 535, art. no. 122456, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070919002&doi=10.1016%2fj.physa.2019.122456&partnerID=40&md5=fcd9ee086b84db56cf9a664b6bd489d3>
- Zarei, A., Karimipour, A., Meghdadi Isfahani, A.H., Tian, Z.
Improve the performance of lattice Boltzmann method for a porous nanoscale transient flow by provide a new modified relaxation time equation
(2019) *Physica A: Statistical Mechanics and its Applications*, 535, art. no. 122453, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070907071&doi=10.1016%2fj.physa.2019.122453&partnerID=40&md5=d62274f7b7fef0b4ca44a7c0eeb41308>
- Wu, H., Bagherzadeh, S.A., D'Orazio, A., Habibollahi, N., Karimipour, A., Goodarzi, M., Bach, Q.-V.
Present a new multi objective optimization statistical Pareto frontier method composed of artificial neural network and multi objective genetic algorithm to improve the pipe flow hydrodynamic and thermal properties such as pressure drop and heat transfer coefficient for non-Newtonian binary fluids

- (2019) *Physica A: Statistical Mechanics and its Applications*, 535, art. no. 122409, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85070667678&doi=10.1016%2fj.physa.2019.122409&partnerID=40&md5=7ee7e233da6019ce71b5582917fa80d7>
- Rajabzadeh, B., Hojaji, M., Karimipour, A.
Numerical simulation of forced convection in a bi-disperse porous medium channel by creating new porous micro-channels inside the porous macro-blocks
- (2019) *International Journal of Numerical Methods for Heat and Fluid Flow*, 29 (11), pp. 4142-4166.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85071691713&doi=10.1108%2fHFF-08-2018-0465&partnerID=40&md5=09a4218dbf90085dae7d495b231c374b>
- Arasteh, H., Mashayekhi, R., Toghraie, D., Karimipour, A., Bahiraei, M., Rahbari, A.
Optimal arrangements of a heat sink partially filled with multilayered porous media employing hybrid nanofluid
- (2019) *Journal of Thermal Analysis and Calorimetry*, 137 (3), pp. 1045-1058.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060252695&doi=10.1007%2fs10973-019-08007-z&partnerID=40&md5=ec84c586bbfaa5a2310ae388e14d88e5>
- Hajatzadeh Pordanjani, A., Aghakhani, S., Karimipour, A., Afrand, M., Goodarzi, M.
24
Investigation of free convection heat transfer and entropy generation of nanofluid flow inside a cavity affected by magnetic field and thermal radiation
- (2019) *Journal of Thermal Analysis and Calorimetry*, 137 (3), pp. 997-1019.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059557099&doi=10.1007%2fs10973-018-7982-4&partnerID=40&md5=0e41a0796278f26d1a1dcce31fedfda9>
- Jiang, Y., Bahrami, M., Bagherzadeh, S.A., Abdollahi, A., Sulgani, M.T., Karimipour, A., Goodarzi, M., Bach, Q.-V.
Propose a new approach of fuzzy lookup table method to predict Al₂O₃/deionized water nanofluid thermal conductivity based on achieved empirical data
- (2019) *Physica A: Statistical Mechanics and its Applications*, 527, art. no. 121177, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065408620&doi=10.1016%2fj.physa.2019.121177&partnerID=40&md5=2700a5109ad2f83fdde710d3babce918>
- Bagherzadeh, S.A., Sulgani, M.T., Nikkiah, V., Bahrami, M., Karimipour, A., Jiang, Y.
Minimize pressure drop and maximize heat transfer coefficient by the new proposed multi-objective optimization/statistical model composed of "ANN + Genetic Algorithm" based on empirical data of CuO/paraffin nanofluid in a pipe
- (2019) *Physica A: Statistical Mechanics and its Applications*, 527, art. no. 121056, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065055746&doi=10.1016%2fj.physa.2019.121056&partnerID=40&md5=8232dcf5e0f8920f44fd74168c7ec955>
- Jiang, Y., Sulgani, M.T., Ranjbarzadeh, R., Karimipour, A., Nguyen, T.K.
Hybrid GMDH-type neural network to predict fluid surface tension, shear stress, dynamic viscosity & sensitivity analysis based on empirical data of iron(II) oxide nanoparticles in light crude oil mixture
- (2019) *Physica A: Statistical Mechanics and its Applications*, 526, art. no. 120948, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064405481&doi=10.1016%2fj.physa.2019.04.184&partnerID=40&md5=0e8dac55aea3bf895ee91d9c68227ed8>
- Mozaffari, M., Karimipour, A., D'Orazio, A.
Increase lattice Boltzmann method ability to simulate slip flow regimes with dispersed CNTs nanoadditives inside: Develop a model to include buoyancy forces in distribution functions of LBM for slip velocity
- (2019) *Journal of Thermal Analysis and Calorimetry*, 137 (1), pp. 229-243.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057207735&doi=10.1007%2fs10973-018-7917-0&partnerID=40&md5=47e506bd6f4f220c330af19e84c9d378>
- Amiri, M.H., Keshavarzi, A., Karimipour, A., Bahiraei, M., Goodarzi, M., Esfahani, J.A.
A 3-D numerical simulation of non-Newtonian blood flow through femoral artery bifurcation with a moderate arteriosclerosis: investigating Newtonian/non-Newtonian flow and its effects on elastic vessel walls
- (2019) *Heat and Mass Transfer/Waerme- und Stoffuebertragung*, 55 (7), pp. 2037-2047.
25
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85061432721&doi=10.1007%2fs00231-019->

02583-4&partnerID=40&md5=5be9aab2353b2f05191b17bdf87161c4

Alipour, P., Toghraie, D., Karimipour, A.

Investigation the atomic arrangement and stability of the fluid inside a rough nanochannel in both presence and absence of different roughness by using of accurate nano scale simulation (2019) *Physica A: Statistical Mechanics and its Applications*, 524, pp. 639-660.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065068225&doi=10.1016%2fj.physa.2019.04.243&partnerID=40&md5=00a422f4410e852702024cd402927dc1)

[85065068225&doi=10.1016%2fj.physa.2019.04.243&partnerID=40&md5=00a422f4410e852702024cd402927dc1](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065068225&doi=10.1016%2fj.physa.2019.04.243&partnerID=40&md5=00a422f4410e852702024cd402927dc1)

Goodarzi, M., Javid, S., Sajadifar, A., Nojoomizadeh, M., Motaharipour, S.H., Bach, Q.-V., Karimipour, A.

Slip velocity and temperature jump of a non-Newtonian nanofluid, aqueous solution of carboxy-methyl cellulose/aluminum oxide nanoparticles, through a microtube

(2019) *International Journal of Numerical Methods for Heat and Fluid Flow*, 29 (5), pp. 1606-1628.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85058110052&doi=10.1108%2fHFF-05-2018-0192&partnerID=40&md5=6b946e376dd1ce6f8b6f169304de59a7>

Jalali, E., Karimipour, A.

Simulation the effects of cross-flow injection on the slip velocity and temperature domain of a nanofluid flow inside a microchannel

(2019) *International Journal of Numerical Methods for Heat and Fluid Flow*, 29 (5), pp. 1546-1562.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057053420&doi=10.1108%2fHFF-04-2018-0149&partnerID=40&md5=dd5e9420033f213eeaf2559a578fe307>

Safaei, M.R., Ranjbarzadeh, R., Hajizadeh, A., Bahiraei, M., Afrand, M., Karimipour, A.

Effects of cobalt ferrite coated with silica nanocomposite on the thermal conductivity of an antifreeze: New nanofluid for refrigeration condensers [Effets simultanés de nanoparticules de ferrite de cobalt et de silice sur la conductivité thermique de l'antigel: un nouveau nanofluide pour condenseur frigorifique] (2019) *International Journal of Refrigeration*, 102, pp. 86-95.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065187257&doi=10.1016%2fj.ijrefrig.2018.12.007&partnerID=40&md5=e3c35d2f5fb356087a5659fcd30d51c)

[85065187257&doi=10.1016%2fj.ijrefrig.2018.12.007&partnerID=40&md5=e3c35d2f5fb356087a5659fcd30d51c](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065187257&doi=10.1016%2fj.ijrefrig.2018.12.007&partnerID=40&md5=e3c35d2f5fb356087a5659fcd30d51c)

Tahmasebi Sulgani, M., Karimipour, A.

Improve the thermal conductivity of 10w40-engine oil at various temperature by addition of Al₂O₃/Fe₂O₃ nanoparticles

(2019) *Journal of Molecular Liquids*, 283, pp. 660-666.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063439411&doi=10.1016%2fj.molliq.2019.03.140&partnerID=40&md5=05c7cf36972829f6b691f3f9018f7c72)

[85063439411&doi=10.1016%2fj.molliq.2019.03.140&partnerID=40&md5=05c7cf36972829f6b691f3f9018f7c72](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063439411&doi=10.1016%2fj.molliq.2019.03.140&partnerID=40&md5=05c7cf36972829f6b691f3f9018f7c72)

D'Orazio, A., Karimipour, A.

A useful case study to develop lattice Boltzmann method performance: Gravity effects on slip velocity and temperature profiles of an air flow inside a microchannel under a constant heat flux boundary condition

26

(2019) *International Journal of Heat and Mass Transfer*, 136, pp. 1017-1029.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062903410&doi=10.1016%2fj.ijheatmasstransfer.2019.03.029&partnerID=40&md5=3eb348acfbec2eaffee6a0aff225b9a8)

[85062903410&doi=10.1016%2fj.ijheatmasstransfer.2019.03.029&partnerID=40&md5=3eb348acfbec2eaffee6a0aff225b9a8](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062903410&doi=10.1016%2fj.ijheatmasstransfer.2019.03.029&partnerID=40&md5=3eb348acfbec2eaffee6a0aff225b9a8)

Al-Rashed, A.A.A.A., Shamsavar, A., Rasooli, O., Moghimi, M.A., Karimipour, A., Tran, M.D.

Numerical assessment into the hydrothermal and entropy generation characteristics of biological water-silver nano-fluid in a wavy walled microchannel heat sink

(2019) *International Communications in Heat and Mass Transfer*, 104, pp. 118-126.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062719890&doi=10.1016%2fj.icheatmasstransfer.2019.03.007&partnerID=40&md5=d8ce7e8a25dbfaec4050b8a027e426a2)

[85062719890&doi=10.1016%2fj.icheatmasstransfer.2019.03.007&partnerID=40&md5=d8ce7e8a25dbfaec4050b8a027e426a2](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062719890&doi=10.1016%2fj.icheatmasstransfer.2019.03.007&partnerID=40&md5=d8ce7e8a25dbfaec4050b8a027e426a2)

Bagherzadeh, S.A., D'Orazio, A., Karimipour, A., Goodarzi, M., Bach, Q.-V.

A novel sensitivity analysis model of EANN for F-MWCNTs-Fe₃O₄/EG nanofluid thermal conductivity: Outputs predicted analytically instead of numerically to more accuracy and less costs

(2019) *Physica A: Statistical Mechanics and its Applications*, 521, pp. 406-415.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060867915&doi=10.1016%2fj.physa.2019.01.048&partnerID=40&md5=83fc5a4cf2d2c0a1898e3d1257878ff8)

[85060867915&doi=10.1016%2fj.physa.2019.01.048&partnerID=40&md5=83fc5a4cf2d2c0a1898e3d1257878ff8](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060867915&doi=10.1016%2fj.physa.2019.01.048&partnerID=40&md5=83fc5a4cf2d2c0a1898e3d1257878ff8)

Mahyari, A.A., Karimipour, A., Afrand, M.

Effects of dispersed added Graphene Oxide-Silicon Carbide nanoparticles to present a statistical

formulation for the mixture thermal properties

(2019) *Physica A: Statistical Mechanics and its Applications*, 521, pp. 98-112.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060752812&doi=10.1016%2fj.physa.2019.01.035&partnerID=40&md5=f2ae61bc0e8314f93e39996983c5740b>

6983c5740b

Karimipour, A., Bagherzadeh, S.A., Taghipour, A., Abdollahi, A., Safaei, M.R.

A novel nonlinear regression model of SVR as a substitute for ANN to predict conductivity of MWCNT-CuO/water hybrid nanofluid based on empirical data

(2019) *Physica A: Statistical Mechanics and its Applications*, 521, pp. 89-97.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85060752159&doi=10.1016%2fj.physa.2019.01.055&partnerID=40&md5=3cb5e4acfc2b13d23a8f472fd5355d83>

85060752159&doi=10.1016%2fj.physa.2019.01.055&partnerID=40&md5=3cb5e4acfc2b13d23a8f472fd5355d83

Sedeh, R.N., Abdollahi, A., Karimipour, A.

Experimental investigation toward obtaining nanoparticles' surficial interaction with basefluid components based on measuring thermal conductivity of nanofluids

(2019) *International Communications in Heat and Mass Transfer*, 103, pp. 72-82.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85062465843&doi=10.1016%2fj.icheatmasstransfer.2019.02.016&partnerID=40&md5=c19cef29d54cc682f94ce4b718e6839e>

85062465843&doi=10.1016%2fj.icheatmasstransfer.2019.02.016&partnerID=40&md5=c19cef29d54cc682f94ce4b718e6839e

27

Bahrami, M., Akbari, M., Bagherzadeh, S.A., Karimipour, A., Afrand, M., Goodarzi, M.

Develop 24 dissimilar ANNs by suitable architectures & training algorithms via sensitivity analysis to better statistical presentation: Measure MSEs between targets & ANN for Fe-CuO/Eg-Water nanofluid

(2019) *Physica A: Statistical Mechanics and its Applications*, 519, pp. 159-168.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059332213&doi=10.1016%2fj.physa.2018.12.031&partnerID=40&md5=07d89ce273f2deee908d5ace7539f17>

85059332213&doi=10.1016%2fj.physa.2018.12.031&partnerID=40&md5=07d89ce273f2deee908d5ace7539f17

Shahsavari, A., Khanmohammadi, S., Karimipour, A., Goodarzi, M.

A novel comprehensive experimental study concerned synthesizes and prepare liquid paraffin-Fe₃O₄ mixture to develop models for both thermal conductivity & viscosity: A new approach of GMDH type of neural network

(2019) *International Journal of Heat and Mass Transfer*, 131, pp. 432-441.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85056835270&doi=10.1016%2fj.ijheatmasstransfer.2018.11.069&partnerID=40&md5=363444053c6ff32edeb647064a584051>

85056835270&doi=10.1016%2fj.ijheatmasstransfer.2018.11.069&partnerID=40&md5=363444053c6ff32edeb647064a584051

Nafchi, P.M., Karimipour, A., Afrand, M.

The evaluation on a new non-Newtonian hybrid mixture composed of TiO₂[Formula presented]/ZnO/EG to present a statistical approach of power law for its rheological and thermal properties

(2019) *Physica A: Statistical Mechanics and its Applications*, 516, pp. 1-18.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055097669&doi=10.1016%2fj.physa.2018.10.015&partnerID=40&md5=7a2746a8d7ddf1eaf59c346bdae16bdc>

85055097669&doi=10.1016%2fj.physa.2018.10.015&partnerID=40&md5=7a2746a8d7ddf1eaf59c346bdae16bdc

Bakar, N.A., Roslan, R., Karimipour, A., Hashim, I.

Mixed convection in lid-driven cavity with inclined magnetic field

(2019) *Sains Malaysiana*, 48 (2), pp. 451-471.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063383130&doi=10.17576%2fj-sm-2019-4802-24&partnerID=40&md5=fd50397600293d1ce8759a77a3e4315e>

85063383130&doi=10.17576%2fj-sm-2019-4802-24&partnerID=40&md5=fd50397600293d1ce8759a77a3e4315e

Alipour, P., Toghraie, D., Karimipour, A., Hajian, M.

Molecular dynamics simulation of fluid flow passing through a nanochannel: Effects of geometric shape of roughnesses

(2019) *Journal of Molecular Liquids*, 275, pp. 192-203.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85057044966&doi=10.1016%2fj.molliq.2018.11.057&partnerID=40&md5=0c85e11d46e8d12593d77e18b1fa322a>

85057044966&doi=10.1016%2fj.molliq.2018.11.057&partnerID=40&md5=0c85e11d46e8d12593d77e18b1fa322a

Alipour, P., Toghraie, D., Karimipour, A., Hajian, M.

Modeling different structures in perturbed Poiseuille flow in a nanochannel by using of molecular dynamics simulation: Study the equilibrium

(2019) *Physica A: Statistical Mechanics and its Applications*, 515, pp. 13-30.

28

- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054269863&doi=10.1016%2fj.physa.2018.09.177&partnerID=40&md5=f0890258cfe7a2e9d22e6e1ad398c9bd>
Khodadadi, H., Toghraie, D., Karimipour, A.
Effects of nanoparticles to present a statistical model for the viscosity of MgO-Water nanofluid (2019) Powder Technology, 342, pp. 166-180.
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054305839&doi=10.1016%2fj.powtec.2018.09.076&partnerID=40&md5=b3b6465e7461597ca8749420d34373d8>
Dehghani, Y., Abdollahi, A., Karimipour, A.
Experimental investigation toward obtaining a new correlation for viscosity of WO₃ and Al₂O₃ nanoparticles-loaded nanofluid within aqueous and non-aqueous basefluids (2019) Journal of Thermal Analysis and Calorimetry, 135 (1), pp. 713-728.
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047660556&doi=10.1007%2fs10973-018-7394-5&partnerID=40&md5=8b72418d4a545a8ed4067bdd18821184>
Abdollahi, A., Karimi Darvanjooghi, M.H., Karimipour, A., Safaei, M.R.
Experimental study to obtain the viscosity of CuO-loaded nanofluid: effects of nanoparticles' mass fraction, temperature and basefluid's types to develop a correlation (2018) Meccanica, 53 (15), pp. 3739-3757.
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85055996634&doi=10.1007%2fs11012-018-0916-1&partnerID=40&md5=202980122036fdab65458ab996ae6e24>
Karimipour, A., Bagherzadeh, S.A., Goodarzi, M., Alnaqi, A.A., Bahiraei, M., Safaei, M.R., Shadloo, M.S.
Synthesized CuFe₂O₄/SiO₂ nanocomposites added to water/EG: Evaluation of the thermophysical properties beside sensitivity analysis & EANN (2018) International Journal of Heat and Mass Transfer, 127, pp. 1169-1179.
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85052484065&doi=10.1016%2fj.ijheatmasstransfer.2018.08.112&partnerID=40&md5=33fb4f34b0e890b0a627cebc61aae04a>
Alrashed, A.A.A.A., Karimipour, A., Bagherzadeh, S.A., Safaei, M.R., Afrand, M.
Electro- and thermophysical properties of water-based nanofluids containing copper ferrite nanoparticles coated with silica: Experimental data, modeling through enhanced ANN and curve fitting (2018) International Journal of Heat and Mass Transfer, 127, pp. 925-935.
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050796561&doi=10.1016%2fj.ijheatmasstransfer.2018.07.123&partnerID=40&md5=7c28f4ee915227f5e1b740ea6c33150e>
Hassani, M., Karimipour, A.
Discrete ordinates simulation of radiative participating nanofluid natural convection in an enclosure (2018) Journal of Thermal Analysis and Calorimetry, 134 (3), pp. 2183-2195.
- 29
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045482171&doi=10.1007%2fs10973-018-7233-8&partnerID=40&md5=a28aab92dbbafc9bd73494e7928ad61d>
Aghakhani, S., Pordanjani, A.H., Karimipour, A., Abdollahi, A., Afrand, M.
Numerical investigation of heat transfer in a power-law non-Newtonian fluid in a C-Shaped cavity with magnetic field effect using finite difference lattice Boltzmann method (2018) Computers and Fluids, 176, pp. 51-67.
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054179235&doi=10.1016%2fj.compfluid.2018.09.012&partnerID=40&md5=7227f6d235420c3e5ee87b480e47d491>
Toghraie, D., Karami, A., Afrand, M., Karimipour, A.
Effects of geometric parameters on the performance of solar chimney power plants (2018) Energy, 162, pp. 1052-1061.
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85053138184&doi=10.1016%2fj.energy.2018.08.086&partnerID=40&md5=961e6f3cc0e7c41de6743ca0acfc9ae7>
Karimipour, A., D'Orazio, A., Goodarzi, M.
Develop the lattice Boltzmann method to simulate the slip velocity and temperature domain of buoyancy forces of FMWCNT nanoparticles in water through a micro flow imposed to the specified heat flux (2018) Physica A: Statistical Mechanics and its Applications, 509, pp. 729-745.

- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048981679&doi=10.1016%2fj.physa.2018.06.031&partnerID=40&md5=a1d653b1cf7b395193c578da26e53999>
Safaei, M.R., Karimipour, A., Abdollahi, A., Nguyen, T.K.
The investigation of thermal radiation and free convection heat transfer mechanisms of nanofluid inside a shallow cavity by lattice Boltzmann method
(2018) *Physica A: Statistical Mechanics and its Applications*, 509, pp. 515-535.
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048814341&doi=10.1016%2fj.physa.2018.06.034&partnerID=40&md5=34748b85cc0b2702cd57cd7934f6cb29>
Goodarzi, M., D'Orazio, A., Keshavarzi, A., Mousavi, S., Karimipour, A.
Develop the nano scale method of lattice Boltzmann to predict the fluid flow and heat transfer of air in the inclined lid driven cavity with a large heat source inside, Two case studies: Pure natural convection & mixed convection
(2018) *Physica A: Statistical Mechanics and its Applications*, 509, pp. 210-233.
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048769463&doi=10.1016%2fj.physa.2018.06.013&partnerID=40&md5=ff4d1a3d8c1f8e77209841cf494b7ad9>
Ahmadi Balootaki, A., Karimipour, A., Toghraei, D.
30
Nano scale lattice Boltzmann method to simulate the mixed convection heat transfer of air in a lid-driven cavity with an endothermic obstacle inside
(2018) *Physica A: Statistical Mechanics and its Applications*, 508, pp. 681-701.
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048523146&doi=10.1016%2fj.physa.2018.05.141&partnerID=40&md5=91919917a55eb75f47f4de666a3f64fd>
Zainuddin, N., Sufahani, S.F., Karimipour, A., Ali, M., Roslan, R.
Hydromagnetic mixed convection flow in an inclined cavity
(2018) *JP Journal of Heat and Mass Transfer*, 15 (3), pp. 543-568.
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85054368594&doi=10.17654%2fHM015030543&partnerID=40&md5=a0218ac2a546b240ffe77379dafd826d>
Ershadi, H., Karimipour, A.
Present a multi-criteria modeling and optimization (energy, economic and environmental) approach of industrial combined cooling heating and power (CCHP) generation systems using the genetic algorithm, case study: A tile factory
(2018) *Energy*, 149, pp. 286-295.
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042174923&doi=10.1016%2fj.energy.2018.02.034&partnerID=40&md5=c6142886f531c13c2134e742529b39d4>
Nojoomizadeh, M., Karimipour, A., Firouzi, M., Afrand, M.
Investigation of permeability and porosity effects on the slip velocity and convection heat transfer rate of Fe₃O₄/water nanofluid flow in a microchannel while its lower half filled by a porous medium
(2018) *International Journal of Heat and Mass Transfer*, 119, pp. 891-906.
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85037614352&doi=10.1016%2fj.ijheatmasstransfer.2017.11.125&partnerID=40&md5=a0d550ff03c3de72058e0b91e4fb1972>
Karimipour, A., Ghasemi, S., Darvanjooghi, M.H.K., Abdollahi, A.
A new correlation for estimating the thermal conductivity and dynamic viscosity of CuO/liquid paraffin nanofluid using neural network method
(2018) *International Communications in Heat and Mass Transfer*, 92, pp. 90-99.
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85042877798&doi=10.1016%2fj.icheatmasstransfer.2018.02.002&partnerID=40&md5=9d9d8ae0c589ff3209c119566f508e6c>
Nojoomizadeh, M., D'Orazio, A., Karimipour, A., Afrand, M., Goodarzi, M.
Investigation of permeability effect on slip velocity and temperature jump boundary conditions for FMWNT/Water nanofluid flow and heat transfer inside a microchannel filled by a porous media
(2018) *Physica E: Low-Dimensional Systems and Nanostructures*, 97, pp. 226-238.
- 31
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85034959371&doi=10.1016%2fj.physe.2017.11.008&partnerID=40&md5=30bbece4f99a916bb0af52>

9194c04b4

Arabpour, A., Karimipour, A., Toghraie, D., Akbari, O.A.

Investigation into the effects of slip boundary condition on nanofluid flow in a double-layer microchannel

(2018) *Journal of Thermal Analysis and Calorimetry*, 131 (3), pp. 2975-2991.<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85033403310&doi=10.1007%2fs10973-017-6813-3&partnerID=40&md5=f35cdc9853d5aff699c6264b1cd22229>

Arabpour, A., Karimipour, A., Toghraie, D.

The study of heat transfer and laminar flow of kerosene/multi-walled carbon nanotubes (MWCNTs) nanofluid in the microchannel heat sink with slip boundary condition

(2018) *Journal of Thermal Analysis and Calorimetry*, 131 (2), pp. 1553-1566.<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028844986&doi=10.1007%2fs10973-017-6649-x&partnerID=40&md5=4037047f33d8bd159ba4b5196ee0d1fb>

Amani, J., Toghraie, D., Karimipour, A., Niroumand, A., Faridzadeh, M.R.

Numerical investigation of mixed convection of SiO₂-water nanofluids within an inclined double lids-driven cavity(2018) *Heat Transfer Research*, 49 (10), pp. 949-964.<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85048236081&doi=10.1615%2fHeatTransRes.2017007503&partnerID=40&md5=5c0a48635f89bda7cf7d85fda81f81cd>

Ghasemi, S., Karimipour, A.

Experimental investigation of the effects of temperature and mass fraction on the dynamic viscosity of CuO-paraffin nanofluid

(2018) *Applied Thermal Engineering*, 128, pp. 189-197.<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85029003551&doi=10.1016%2fj.applthermaleng.2017.09.021&partnerID=40&md5=0e3e2c2ba963e0122f7a6473f3ddee8e>

Nemati, M., Shateri Najaf Abady, A.R., Toghraie, D., Karimipour, A.

Numerical investigation of the pseudopotential lattice Boltzmann modeling of liquid-vapor for multi-phase flows

(2018) *Physica A: Statistical Mechanics and its Applications*, 489, pp. 65-77.<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028080207&doi=10.1016%2fj.physa.2017.07.013&partnerID=40&md5=56edab2ea22b8048497031f89d865bf6>

Karimipour, A.

A novel case study for thermal radiation through a nanofluid as a semitransparent medium via discrete ordinates method to consider the absorption and scattering of nanoparticles along the radiation beams coupled with natural convection

32

(2017) *International Communications in Heat and Mass Transfer*, 87, pp. 256-269.<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028023002&doi=10.1016%2fj.icheatmasstransfer.2017.07.020&partnerID=40&md5=346126b3762e5bba4fa6b53f43a6d65c>

Zadkhast, M., Toghraie, D., Karimipour, A.

Developing a new correlation to estimate the thermal conductivity of MWCNT-CuO/water hybrid nanofluid via an experimental investigation

(2017) *Journal of Thermal Analysis and Calorimetry*, 129 (2), pp. 859-867.<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85014090245&doi=10.1007%2fs10973-017-6213-8&partnerID=40&md5=ebdc96f80e9d04c1409adaa7f7bcc4f5>

Afrand, M., Toghraie, D., Karimipour, A., Wongwises, S.

A numerical study of natural convection in a vertical annulus filled with gallium in the presence of magnetic field

(2017) *Journal of Magnetism and Magnetic Materials*, 430, pp. 22-28.<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85010457783&doi=10.1016%2fj.jmmm.2017.01.016&partnerID=40&md5=610da63059e89e8c38b5941151f9a9f7>

Akbari, M., Afrand, M., Arshi, A., Karimipour, A.

An experimental study on rheological behavior of ethylene glycol based nanofluid: Proposing a new correlation as a function of silica concentration and temperature

(2017) *Journal of Molecular Liquids*, 233, pp. 352-357.

- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85015645007&doi=10.1016%2fj.molliq.2017.03.020&partnerID=40&md5=bab08eb2943c571b393a0bf0f562033b>
Bakar, N.A., Karimipour, A., Roslan, R.
Numerical study of mixed convection in a lid-driven cavity in the presence of internal heat generation/absorption
(2017) AIP Conference Proceedings, 1830, art. no. 020047, .
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85019440227&doi=10.1063%2f1.4980910&partnerID=40&md5=cc7629a6200ae7c055ce8439bbab5691>
Bakar, N.A., Roslan, R., Ali, M., Karimipour, A.
Mixed convection in an inclined lid-driven square cavity with sinusoidal heating on top lid
(2017) ARPN Journal of Engineering and Applied Sciences, 12 (8), pp. 2539-2544.
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85018916904&partnerID=40&md5=0e958b4d7f05a83f39cb6f262aaed6f>
Zainuddin, N., Bakar, N.A., Karimipour, A., Roslan, R.
Effect of sinusoidally heating on mixed convection in square cavity filled with a porous medium
(2017) ARPN Journal of Engineering and Applied Sciences, 12 (7), pp. 2351-2357.
33
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85017570603&partnerID=40&md5=db44cd55a5d350bf9e5922cb14e68c63>
Alipour, H., Karimipour, A., Safaei, M.R., Semiromi, D.T., Akbari, O.A.
Influence of T-semi attached rib on turbulent flow and heat transfer parameters of a silver-water nanofluid with different volume fractions in a three-dimensional trapezoidal microchannel
(2017) Physica E: Low-Dimensional Systems and Nanostructures, 88, pp. 60-76.
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85000916639&doi=10.1016%2fj.physe.2016.11.021&partnerID=40&md5=ff4f01182a74e894a26339de40f44864>
Karimipour, A., D'Orazio, A., Shadloo, M.S.
The effects of different nano particles of Al₂O₃ and Ag on the MHD nano fluid flow and heat transfer in a microchannel including slip velocity and temperature jump
(2017) Physica E: Low-Dimensional Systems and Nanostructures, 86, pp. 146-153.
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84992502938&doi=10.1016%2fj.physe.2016.10.015&partnerID=40&md5=f3730d1ab3a00f0fc412f553e9089795>
Akbari, O.A., Toghraie, D., Karimipour, A., Marzban, A., Ahmadi, G.R.
The effect of velocity and dimension of solid nanoparticles on heat transfer in non-Newtonian nanofluid
(2017) Physica E: Low-Dimensional Systems and Nanostructures, 86, pp. 68-75.
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84991780661&doi=10.1016%2fj.physe.2016.10.013&partnerID=40&md5=fd53394e6c5e4a1f0647033dc8b6f1d1>
Jamali Ghahderijani, M., Esmaili, M., Afrand, M., Karimipour, A.
Numerical simulation of MHD fluid flow inside constricted channels using Lattice Boltzmann Method
(2017) Journal of Applied Fluid Mechanics, 10 (6), pp. 1639-1648.
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85031048950&doi=10.29252%2fjafm.73.245.27885&partnerID=40&md5=3c2d3c84c18cf60d7908d9f2978758ff>
Ranjbarzadeh, R., Karimipour, A., Afrand, M., Isfahani, A.H.M., Shirmeshan, A.
Empirical analysis of heat transfer and friction factor of water/graphene oxide nanofluid flow in turbulent regime through an isothermal pipe
(2017) Applied Thermal Engineering, 126, pp. 538-547.
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85026518117&doi=10.1016%2fj.applthermaleng.2017.07.189&partnerID=40&md5=1fc7b9cc5b36c3c801aa227201b424eb>
Ranjbarzadeh, R., Meghdadi Isfahani, A.H., Afrand, M., Karimipour, A., Hojaji, M.
An experimental study on heat transfer and pressure drop of water/graphene oxide nanofluid in a copper tube under air cross-flow: Applicable as a heat exchanger
(2017) Applied Thermal Engineering, 125, pp. 69-79.
34
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0->

- 85021760137&doi=10.1016%2fj.applthermaleng.2017.06.110&partnerID=40&md5=9b7a5bcb2778541e91ea87b45c7fb1f0
Afrand, M., Kalbasi, R., Karimipour, A., Wongwises, S.
Experimental investigation on a thermal model for a basin solar still with an external reflector
(2017) *Energies*, 10 (1), art. no. 18, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85009268779&doi=10.3390%2fen10010018&partnerID=40&md5=f394884bfc3c43fd9273dc18f509c33>
- Sajadifar, S.A., Karimipour, A., Toghraie, D.
Fluid flow and heat transfer of non-Newtonian nanofluid in a microtube considering slip velocity and temperature jump boundary conditions
(2017) *European Journal of Mechanics, B/Fluids*, 61, pp. 25-32.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84992017357&doi=10.1016%2fj.euromechflu.2016.09.014&partnerID=40&md5=505bf7a4c298ad3d558f55d6e7696cd0>
- Karimipour, A.
Provide a suitable range to include the thermal creeping effect on slip velocity and temperature jump of an air flow in a nanochannel by lattice Boltzmann method
(2017) *Physica E: Low-Dimensional Systems and Nanostructures*, 85, pp. 143-151.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84989840040&doi=10.1016%2fj.physe.2016.08.021&partnerID=40&md5=ed6f315d14b1e00fb4b3b05001b12901>
- Forghani-Tehrani, P., Karimipour, A., Afrand, M., Mousavi, S.
Different nano-particles volume fraction and Hartmann number effects on flow and heat transfer of water-silver nanofluid under the variable heat flux
(2017) *Physica E: Low-Dimensional Systems and Nanostructures*, 85, pp. 271-279.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84988569219&doi=10.1016%2fj.physe.2016.07.016&partnerID=40&md5=fe8dec7beded65ed190fec879e23145d>
- Forghani, P., Ahmadikia, H., Karimipour, A.
Non-fourier boundary conditions effects on the skin tissue temperature response
(2017) *Heat Transfer - Asian Research*, 46 (1), pp. 29-48.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84941013246&doi=10.1002%2fhjt.21196&partnerID=40&md5=d672b2fde7fc2d67a5fac041603dc319>
- Sadeghi, R., Shadloo, M.S., Jamalabadi, M.Y.A., Karimipour, A.
A three-dimensional lattice Boltzmann model for numerical investigation of bubble growth in pool boiling
(2016) *International Communications in Heat and Mass Transfer*, 79, pp. 58-66.
35
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84993940191&doi=10.1016%2fj.icheatmasstransfer.2016.10.009&partnerID=40&md5=332fde88e8f3c82abbc3777942f286bb>
- Bahrami, M., Akbari, M., Karimipour, A., Afrand, M.
An experimental study on rheological behavior of hybrid nanofluids made of iron and copper oxide in a binary mixture of water and ethylene glycol: Non-Newtonian behavior
(2016) *Experimental Thermal and Fluid Science*, 79, pp. 231-237.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84979000367&doi=10.1016%2fj.expthermflusci.2016.07.015&partnerID=40&md5=56457a7da6ba7a9d306b38b984e2506e>
- Karimipour, A., Taghipour, A., Malvandi, A.
Developing the laminar MHD forced convection flow of water/FMWNT carbon nanotubes in a microchannel imposed the uniform heat flux
(2016) *Journal of Magnetism and Magnetic Materials*, 419, pp. 420-428.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84977675213&doi=10.1016%2fj.jmmm.2016.06.063&partnerID=40&md5=bd6b52c49fd01a7529d28151e1506508>
- Akbari, O.A., Toghraie, D., Karimipour, A., Safaei, M.R., Goodarzi, M., Alipour, H., Dahari, M.
Investigation of rib's height effect on heat transfer and flow parameters of laminar water-Al₂O₃ nanofluid in a rib-microchannel
(2016) *Applied Mathematics and Computation*, 290, pp. 135-153.

- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84975470301&doi=10.1016%2fj.amc.2016.05.053&partnerID=40&md5=f3e420d24030791a5e9c52284a911bcf>
Zarringhalam, M., Karimipour, A., Toghraie, D.
Experimental study of the effect of solid volume fraction and Reynolds number on heat transfer coefficient and pressure drop of CuO-Water nanofluid
(2016) *Experimental Thermal and Fluid Science*, 76, pp. 342-351.
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84963664692&doi=10.1016%2fj.expthermflusci.2016.03.026&partnerID=40&md5=9b67ef4f46eeb141a38ed96e5cbbefea>
Sarbolookzadeh Harandi, S., Karimipour, A., Afrand, M., Akbari, M., D'Orazio, A.
An experimental study on thermal conductivity of F-MWCNTs-Fe₃O₄/EG hybrid nanofluid: Effects of temperature and concentration
(2016) *International Communications in Heat and Mass Transfer*, 76, pp. 171-177.
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84973515379&doi=10.1016%2fj.icheatmasstransfer.2016.05.029&partnerID=40&md5=3f35842723e84f5848d857b24ae6a0c2>
Esfandiary, M., Mehmandoust, B., Karimipour, A., Pakravan, H.A.
36
Natural convection of Al₂O₃-water nanofluid in an inclined enclosure with the effects of slip velocity mechanisms: Brownian motion and thermophoresis phenomenon
(2016) *International Journal of Thermal Sciences*, 105, pp. 137-158.
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84962572432&partnerID=40&md5=f7464912a877091053988f7fbbcf6cfcf>
Afrand, M., Karimipour, A., Nadooshan, A.A., Akbari, M.
The variations of heat transfer and slip velocity of FMWNT-water nano-fluid along the micro-channel in the lack and presence of a magnetic field
(2016) *Physica E: Low-Dimensional Systems and Nanostructures*, 84, pp. 474-481.
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84978995746&doi=10.1016%2fj.physe.2016.07.013&partnerID=40&md5=4c158c641d1b4bab586f77d8fc56f504>
Karimipour, A., Afrand, M.
Magnetic field effects on the slip velocity and temperature jump of nanofluid forced convection in a microchannel
(2016) *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, 230 (11), pp. 1921-1936.
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84975089452&doi=10.1177%2f0954406215586232&partnerID=40&md5=409778972da0ac43771fc6a4988c9321>
Baratpour, M., Karimipour, A., Afrand, M., Wongwises, S.
Effects of temperature and concentration on the viscosity of nanofluids made of single-wall carbon nanotubes in ethylene glycol
(2016) *International Communications in Heat and Mass Transfer*, 74, pp. 108-113.
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84962428707&doi=10.1016%2fj.icheatmasstransfer.2016.02.008&partnerID=40&md5=fcef26c6341b2b591386a209cd185c1a>
Akbari, O.A., Toghraie, D., Karimipour, A.
Numerical simulation of heat transfer and turbulent flow of water nanofluids copper oxide in rectangular microchannel with semi-attached rib
(2016) *Advances in Mechanical Engineering*, 8 (4), pp. 1-25.
- <https://www.scopus.com/inward/record.uri?eid=2-s2.0-84967008665&doi=10.1177%2f1687814016641016&partnerID=40&md5=7c1fc754685647e31bbc3f7e65b5cdc8>
Nojoomizadeh, M., Karimipour, A.
The effects of porosity and permeability on fluid flow and heat transfer of multi walled carbon nanotubes suspended in oil (MWCNT/Oil nano-fluid) in a microchannel filled with a porous medium
(2016) *Physica E: Low-Dimensional Systems and Nanostructures*, 84, pp. 423-433.
- 37
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84988424297&doi=10.1016%2fj.physe.2016.07.020&partnerID=40&md5=b399536ba3b63dfcc14f4deab7bd7524>

- Bakar, N.A., Karimipour, A., Roslan, R.
Effect of Magnetic Field on Mixed Convection Heat Transfer in a Lid-Driven Square Cavity
(2016) Journal of Thermodynamics, 2016, art. no. 3487182, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84962808933&doi=10.1155%2f2016%2f3487182&partnerID=40&md5=aa0da1b18a12d55bfd700fb6fb47487>
- Isfahani, A.H.M., Tasdighi, I., Karimipour, A., Shirani, E., Afrand, M.
A joint lattice Boltzmann and molecular dynamics investigation for thermohydraulic simulation of nano flows through porous media
(2016) European Journal of Mechanics, B/Fluids, 55, pp. 15-23.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84948575750&doi=10.1016%2fj.euromechflu.2015.08.002&partnerID=40&md5=e21d4481130fcf66853ebe91ae48922e>
- Teimouri, H., Afrand, M., Sina, N., Karimipour, A., Isfahani, A.H.M.
Natural convection of liquid metal in a horizontal cylindrical annulus under radial magnetic field
(2015) International Journal of Applied Electromagnetics and Mechanics, 49 (4), pp. 453-461.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84954117960&doi=10.3233%2fJAE-150028&partnerID=40&md5=89a3037340930fa8036da1b1c3a88e0b>
- Hemmat Esfe, M., Wongwises, S., Asadi, A., Karimipour, A., Akbari, M.
Mandatory and Self-citation; Types, Reasons, Their Benefits and Disadvantages
(2015) Science and Engineering Ethics, 21 (6), pp. 1581-1585.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84948082902&doi=10.1007%2fs11948-014-9598-9&partnerID=40&md5=64efc32bccd53aaa38ece7adff944b21>
- D'Orazio, A., Nikkhah, Z., Karimipour, A.
Simulation of copper-water nanofluid in a microchannel in slip flow regime using the lattice Boltzmann method with heat flux boundary condition
(2015) Journal of Physics: Conference Series, 655 (1), art. no. 012029, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84952936103&doi=10.1088%2f1742-6596%2f655%2f1%2f012029&partnerID=40&md5=e74e42b6fa8cf086874a4c1ca92ef4ca>
- Akbari, O.A., Toghraie, D., Karimipour, A.
Impact of ribs on flow parameters and laminar heat transfer of water-aluminum oxide nanofluid with different nanoparticle volume fractions in a three-dimensional rectangular microchannel
(2015) Advances in Mechanical Engineering, 7 (11), .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84949008708&doi=10.1177%2f1687814015618155&partnerID=40&md5=2de52fc1e476d6495c5b455152ddbc46>
- 38
- Hemmat Esfe, M., Yan, W.-M., Akbari, M., Karimipour, A., Hassani, M.
Experimental study on thermal conductivity of DWCNT-ZnO/water-EG nanofluids
(2015) International Communications in Heat and Mass Transfer, 68, pp. 248-251.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84943617529&doi=10.1016%2fj.icheatmasstransfer.2015.09.001&partnerID=40&md5=063b21b1451a7aa08c23bfe0db565929>
- Hemmat Esfe, M., Rostamian, H., Afrand, M., Karimipour, A., Hassani, M.
Modeling and estimation of thermal conductivity of MgO-water/EG (60:40) by artificial neural network and correlation
(2015) International Communications in Heat and Mass Transfer, 68, pp. 98-103.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84941550210&doi=10.1016%2fj.icheatmasstransfer.2015.08.015&partnerID=40&md5=8dbc6d34e42198032da95809d3522106>
- Nikkhah, Z., Karimipour, A., Safaei, M.R., Forghani-Tehrani, P., Goodarzi, M., Dahari, M., Wongwises, S.
Forced convective heat transfer of water/functionalized multi-walled carbon nanotube nanofluids in a microchannel with oscillating heat flux and slip boundary condition
(2015) International Communications in Heat and Mass Transfer, 68, pp. 69-77.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84941133526&doi=10.1016%2fj.icheatmasstransfer.2015.08.008&partnerID=40&md5=e4e785da507b555514b6d299cb56b8fe>
- Shamshirband, S., Malvandi, A., Karimipour, A., Goodarzi, M., Afrand, M., Petković, D., Dahari, M., Mahmoodian, N.

- Performance investigation of micro- and nano-sized particle erosion in a 90° elbow using an ANFIS model
(2015) Powder Technology, 284, pp. 336-343.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84937603986&doi=10.1016%2fj.powtec.2015.06.073&partnerID=40&md5=1d978c73555d0fbe638f9aa9b4d57bb8>
- Hemmat Esfe, M., Afrand, M., Karimipour, A., Yan, W.-M., Sina, N.
An experimental study on thermal conductivity of MgO nanoparticles suspended in a binary mixture of water and ethylene glycol
(2015) International Communications in Heat and Mass Transfer, 67, pp. 173-175.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84941561416&doi=10.1016%2fj.icheatmasstransfer.2015.07.009&partnerID=40&md5=31c59b2363a3811a6ca9efc0a5c828ca>
- Hemmat Esfe, M., Naderi, A., Akbari, M., Afrand, M., Karimipour, A.
Evaluation of thermal conductivity of COOH-functionalized MWCNTs/water via temperature and solid volume fraction by using experimental data and ANN methods
(2015) Journal of Thermal Analysis and Calorimetry, 121 (3), pp. 1273-1278.
39
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84939465851&doi=10.1007%2fs10973-015-4565-5&partnerID=40&md5=9717a86cdf624852437b337e78d7cbce>
- Hemmat Esfe, M., Karimipour, A., Yan, W.-M., Akbari, M., Safaei, M.R., Dahari, M.
Experimental study on thermal conductivity of ethylene glycol based nanofluids containing Al₂O₃ nanoparticles
(2015) International Journal of Heat and Mass Transfer, 88, pp. 728-734.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84929645754&doi=10.1016%2fj.ijheatmasstransfer.2015.05.010&partnerID=40&md5=7a6132ee8ee3b86e47289feae8737128>
- Hemmat Esfe, M., Abbasian Arani, A.A., Rezaie, M., Yan, W.-M., Karimipour, A.
Experimental determination of thermal conductivity and dynamic viscosity of Ag-MgO/water hybrid nanofluid
(2015) International Communications in Heat and Mass Transfer, 66, pp. 189-195.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84934990224&doi=10.1016%2fj.icheatmasstransfer.2015.06.003&partnerID=40&md5=220bc922330b57eae730b45538b3e390>
- Hemmat Esfe, M., Wongwises, S., Naderi, A., Asadi, A., Safaei, M.R., Rostamian, H., Dahari, M., Karimipour, A.
Thermal conductivity of Cu/TiO₂-water/EG hybrid nanofluid: Experimental data and modeling using artificial neural network and correlation
(2015) International Communications in Heat and Mass Transfer, 66, pp. 100-104.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84930640063&doi=10.1016%2fj.icheatmasstransfer.2015.05.014&partnerID=40&md5=ba1fdf4b90ae4b18b4f03b8f5ff2df7>
- Afrand, M., Rostami, S., Akbari, M., Wongwises, S., Esfe, M.H., Karimipour, A.
Effect of induced electric field on magneto-natural convection in a vertical cylindrical annulus filled with liquid potassium
(2015) International Journal of Heat and Mass Transfer, 90, pp. 418-426.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84936932758&doi=10.1016%2fj.ijheatmasstransfer.2015.06.059&partnerID=40&md5=bfe3a4d20553c178bf1c27a19a573b84>
- Hemmat Esfe, M., Saedodin, S., Akbari, M., Karimipour, A., Afrand, M., Wongwises, S., Safaei, M.R., Dahari, M.
Experimental investigation and development of new correlations for thermal conductivity of CuO/EG-water nanofluid
(2015) International Communications in Heat and Mass Transfer, 65, pp. 47-51.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84928138332&doi=10.1016%2fj.icheatmasstransfer.2015.04.006&partnerID=40&md5=8fe78700c425affdb29244da1559d53f>
- 40
Hemmat Esfe, M., Abbasian Arani, A.A., Niroumand, A.H., Yan, W.-M., Karimipour, A.
Mixed convection heat transfer from surface-mounted block heat sources in a horizontal channel with nanofluids

- (2015) International Journal of Heat and Mass Transfer, 89, art. no. 12108, pp. 783-791.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84931261209&doi=10.1016%2fj.ijheatmasstransfer.2015.05.100&partnerID=40&md5=2c8e0cbdb8172d83293e93e2688a2547>
- Hemmat Esfe, M., Akbari, M., Karimipour, A.
Mixed convection in a lid-driven cavity with an inside hot obstacle filled by an Al₂O₃-water nanofluid
(2015) Journal of Applied Mechanics and Technical Physics, 56 (3), pp. 443-453.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84956898636&doi=10.1134%2fS0021894415030141&partnerID=40&md5=e5b1d5538ddcc13715e00cce3340a61d>
- Hemmat Esfe, M., Saedodin, S., Asadi, A., Karimipour, A.
Thermal conductivity and viscosity of Mg(OH)₂-ethylene glycol nanofluids: Finding a critical temperature
(2015) Journal of Thermal Analysis and Calorimetry, 120 (2), art. no. 4417, pp. 1145-1149.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84935001354&doi=10.1007%2fs10973-015-4417-3&partnerID=40&md5=d1b037786ff2a25c914b3f9f714ee0ef>
- D'Orazio, A., Karimipour, A., Nezhad, A.H., Shirani, E.
Lattice Boltzmann method with heat flux boundary condition applied to mixed convection in inclined lid driven cavity
(2015) Meccanica, 50 (4), pp. 945-962.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84925491330&doi=10.1007%2fs11012-014-0052-5&partnerID=40&md5=bca2f7c37e0e7c4d653d6fa6e02dc319>
- Hemmat Esfe, M., Saedodin, S., Naderi, A., Alirezaie, A., Karimipour, A., Wongwises, S., Goodarzi, M., Dahari, M.B.
Modeling of thermal conductivity of ZnO-EG using experimental data and ANN methods
(2015) International Communications in Heat and Mass Transfer, 63, pp. 35-40.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84924675164&doi=10.1016%2fj.icheatmasstransfer.2015.01.001&partnerID=40&md5=f14db00058cb46abbe3e5bcfdcdc849c>
- Karimipour, A., Alipour, H., Akbari, O.A., Semiromi, D.T., Esfe, M.H.
Studying the effect of indentation on flow parameters and slow heat transfer of water-silver nano-fluid with varying volume fraction in a rectangular two-dimensional micro channel
(2015) Indian Journal of Science and Technology, 8 (15), art. no. 51707, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84938709924&doi=10.17485%2fjst%2f2015%2fv8i15%2f51707&partnerID=40&md5=34aab36bcf87f0488801b61e78f40fce>
- Goodarzi, M., Amiri, A., Goodarzi, M.S., Safaei, M.R., Karimipour, A., Languri, E.M., Dahari, M.
41
Investigation of heat transfer and pressure drop of a counter flow corrugated plate heat exchanger using MWCNT based nanofluids
(2015) International Communications in Heat and Mass Transfer, 66, pp. 172-179.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84934992646&doi=10.1016%2fj.icheatmasstransfer.2015.05.002&partnerID=40&md5=cf8a8b6bb48e0b87ca1db1a38b7b5429>
- Hemmat Esfe, M., Akbari, M., Karimipour, A., Afrand, M., Mahian, O., Wongwises, S.
Mixed-convection flow and heat transfer in an inclined cavity equipped to a hot obstacle using nanofluids considering temperature-dependent properties
(2015) International Journal of Heat and Mass Transfer, 85, pp. 656-666.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84923380667&doi=10.1016%2fj.ijheatmasstransfer.2015.02.009&partnerID=40&md5=967c9618f29976f93109b0a639e52293>
- Karimipour, A.
New correlation for Nusselt number of nanofluid with Ag / Al₂O₃ / Cu nanoparticles in a microchannel considering slip velocity and temperature jump by using lattice Boltzmann method
(2015) International Journal of Thermal Sciences, 91, pp. 146-156.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84923072532&doi=10.1016%2fj.ijthermalsci.2015.01.015&partnerID=40&md5=3aaef997a14caee30158e5fc49dec5c3>
- Mahmoodia, M., Esfe, M.H., Akbari, M., Karimipour, A., Afrand, M.
Magneto-natural convection in square cavities with a source-sink pair on different walls

- (2015) International Journal of Applied Electromagnetics and Mechanics, 47 (1), pp. 21-32.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84920100985&doi=10.3233%2fJAE-130097&partnerID=40&md5=e62f3563dd1951f80af4497aeb4e0f1b>
Karimipour, A., Hossein Nezhad, A., D'Orazio, A., Hemmat Esfe, M., Safaei, M.R., Shirani, E.
Simulation of copper-water nanofluid in a microchannel in slip flow regime using the lattice Boltzmann method
- (2015) European Journal of Mechanics, B/Fluids, 49 (PA), pp. 89-99.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84907513150&doi=10.1016%2fj.euomechflu.2014.08.004&partnerID=40&md5=a74cd981b39b210c63d83254e26c1360>
Karimipour, A., Hemmat Esfe, M., Safaei, M.R., Toghraie Semiromi, D., Jafari, S., Kazi, S.N.
Mixed convection of copper-water nanofluid in a shallow inclined lid driven cavity using the lattice Boltzmann method
- (2014) Physica A: Statistical Mechanics and its Applications, 402, pp. 150-168.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84894111314&doi=10.1016%2fj.physa.2014.01.057&partnerID=40&md5=ce62e4481160a54524914e595097dc07>
42
Goodarzi, M., Safaei, M.R., Karimipour, A., Hooman, K., Dahari, M., Kazi, S.N., Sadeghinezhad, E.
Comparison of the finite volume and lattice boltzmann methods for solving natural convection heat transfer problems inside cavities and enclosures
- (2014) Abstract and Applied Analysis, 2014, art. no. 762184, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84897585449&doi=10.1155%2f2014%2f762184&partnerID=40&md5=f7b7d0dee5189e41e8e846de50beca9d>
Karimipour, A., Mirtalebi, S.S., Afrand, M.
Using nanofluid in lid driven shallow enclosure at particular richardson number: Investigation the effect of velocity ratio
- (2014) Indian Journal of Science and Technology, 7 (5), pp. 698-704.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84913590128&partnerID=40&md5=3fe78da6bd51516eea0690e422cf7229>
D'Orazio, A., Karimipour, A., Nezhad, A.H., Shirani, E.
Mixed convection in inclined lid driven cavity by Lattice Boltzmann Method and heat flux boundary condition
- (2014) Journal of Physics: Conference Series, 547 (1), art. no. 012031, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84912141957&doi=10.1088%2f1742-6596%2f547%2f1%2f012031&partnerID=40&md5=c0f3e4a6b516dc36efeff4ace82f08bf>
Safaei, M.R., Mahian, O., Garoosi, F., Hooman, K., Karimipour, A., Kazi, S.N., Gharehkhani, S.
Investigation of micro- and nanosized particle erosion in a 90° pipe bend using a two-phase discrete phase model
- (2014) Scientific World Journal, 2014, art. no. 740578, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84908355150&doi=10.1155%2f2014%2f740578&partnerID=40&md5=2b815b85c5f877d59b4498a000c93370>
Esfe, M.H., Esforjani, S.S.M., Akbari, M., Karimipour, A.
Mixed-convection flow in a lid-driven square cavity filled with a nanofluid with variable properties: Effect of the nanoparticle diameter and of the position of a hot obstacle
- (2014) Heat Transfer Research, 45 (6), pp. 563-578.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84902140480&doi=10.1615%2fHeatTransRes.2014007271&partnerID=40&md5=38a941ad1587011eb1551f4b0c1f5389>
Esfe, M.H., Akbari, M., Toghraie, D., Karimipour, A., Afrand, M.
Effect of nanofluid variable properties on mixed convection flow and heat transfer in an inclined two-sided lid-driven cavity with sinusoidal heating on sidewalls
- (2014) Heat Transfer Research, 45 (5), pp. 409-432.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84901009995&doi=10.1615%2fHeatTransRes.2013007127&partnerID=40&md5=094b213ae8ed58595c881228c7ade92d>
43
Esfe, M.H., Arani, A.A.A., Karimipour, A., Esforjani, S.S.M.

- Numerical simulation of natural convection around an obstacle placed in an enclosure filled with different types of nanofluids
(2014) *Heat Transfer Research*, 45 (3), pp. 279-292.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84901006942&doi=10.1615%2fHeatTransRes.2013007026&partnerID=40&md5=443e5015609cc5adb6295f031cb7b42b>
- Goodarzi, M., Safaei, M.R., Oztop, H.F., Karimipour, A., Sadeghinezhad, E., Dahari, M., Kazi, S.N., Jomhari, N.
Numerical study of entropy generation due to coupled laminar and turbulent mixed convection and thermal radiation in an enclosure filled with a semitransparent medium
(2014) *The Scientific World Journal*, 2014, art. no. 761745, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84897561405&doi=10.1155%2f2014%2f761745&partnerID=40&md5=e32d26196cf0843cc76744d942d5c602>
- Karimipour, A., Abedini, E., Ajam, H., Sarvari, S.M.H.
Modeling of fluid flow and heat transfer in laser welding with a moving heat source
(2013) *Advanced Materials Research*, 622, pp. 618-622.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84872703224&doi=10.4028%2fwww.scientific.net%2fAMR.622-623.618&partnerID=40&md5=59d832f0a6909bddd44fb18bf1c94bdc>
- Karimipour, A., Nezhad, A.H., D'Orazio, A., Shirani, E.
The effects of inclination angle and prandtl number on the mixed convection in the inclined lid driven cavity using lattice boltzmann method
(2013) *Journal of Theoretical and Applied Mechanics*, 51 (2), pp. 447-462.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84891904426&partnerID=40&md5=4e06cad1ac19370880347d9e18293fb0>
- Safaiy, M.R., Maghmoumi, Y., Karimipour, A.
Numerical investigation of turbulence mixed convection heat transfer of water and drilling mud inside a square enclosure by finite volume method
(2012) *AIP Conference Proceedings*, 1440, pp. 732-739.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84874418821&doi=10.1063%2f1.4704283&partnerID=40&md5=119e5ec68d1d87d59f9e7bd95aa5187d>
- Safaiy, M.R., Maghmoumi, Y., Karimipour, A.
Economic evaluation of utilization of electro-feed water pump and turbo-feed water pump and compare them in a 12.5-megawatts steam unit thermal cycle and provide the optimum solution
(2012) *AIP Conference Proceedings*, 1440, pp. 550-555.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84874410359&doi=10.1063%2f1.4704261&partnerID=40&md5=67b09128c2a9c465d93890c230a22b3a>
- 44
- Karimipour, A., Hossein Nezhad, A., D'Orazio, A., Shirani, E.
Investigation of the gravity effects on the mixed convection heat transfer in a microchannel using lattice Boltzmann method
(2012) *International Journal of Thermal Sciences*, 54, pp. 142-152.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84856338825&doi=10.1016%2fj.ijthermalsci.2011.11.015&partnerID=40&md5=67aabddd644966709183237592ae9f24>
- Karimipour, A., Nezhad, A.H., Behzadmehr, A., Alikhani, S., Abedini, E.
Periodic mixed convection of a nanofluid in a cavity with top lid sinusoidal motion
(2011) *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, 225 (9), pp. 2149-2160.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-80052813247&doi=10.1177%2f0954406211404634&partnerID=40&md5=86b6ac53c613ad9631ed5ca964df6cf5>
- Karimipour, A., Nezhad, A.H., Shirani, E., Safaei, A.
Simulation of fluid flow and heat transfer in inclined cavity using Lattice Boltzmann method
(2011) *World Academy of Science, Engineering and Technology*, 76, pp. 649-656.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-79955709402&partnerID=40&md5=9e3cbbcae225165f139585fd10814968>

Afrand, M., Behzadmehr, A., Karimipour, A.

A numerical simulation of solar distillation for installation in Chabahar-Iran
(2010) World Academy of Science, Engineering and Technology, 71, pp. 515-520.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-78651562621&partnerID=40&md5=3d76d8f56fcfdc46dc0568e7562400b6>

Karimipour, A., Afrand, M., Bazofti, M.M.

Periodic mixed convection of a nanofluid in a cavity with top lid sinusoidal motion
(2010) World Academy of Science, Engineering and Technology, 71, pp. 135-140.

▪ <https://www.scopus.com/inward/record.uri?eid=2-s2.0-78651532901&partnerID=40&md5=f24928b768070aa6229b97a2e229e972>Come scrivere un CV di successo, New Associated Publisher, Londra, 2002.

Esempio di progetto:

▪ La nuova biblioteca pubblica di Devon. Architetto a capo del progetto e realizzazione, della supervisione della commessa e della costruzione (2008-2012).

Riconoscimenti e premi

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%)

Dati personali

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali".

il sottoscritto dichiara di essere consapevole che il presente *curriculum vitae* sarà pubblicato sul sito istituzionale dell'Ateneo, nella Sezione "Amministrazione trasparente", nelle modalità e per la durata prevista dal d.lgs. n. 33/2013, art. 15.