Ali Akbar Abbasian Arani

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/8622510/ali-akbar-abbasian-arani-publications-by-year.pdf

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

68 2,808 28 52 h-index g-index citations papers 6.09 3,229 3.7 71 L-index avg, IF ext. citations ext. papers

| # | Paper | IF | Citations |
|----|--|------------------|-----------|
| 68 | Nanofluid multi-morphology effect on dual-fluid sinusoidal-wavy grooved absorber tube parabolic trough solar collector performances enhancement based on experimental data. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 123, 105201 | 5.8 | 5 |
| 67 | Shell and tube heat exchanger thermal-hydraulic analysis equipped with baffles and corrugated tubes filled with non-Newtonian two-phase nanofluid. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2021 , 31, 1214-1244 | 4.5 | |
| 66 | Stagnation-point flow of Ag-CuO/water hybrid nanofluids over a permeable stretching/shrinking sheet with temporal stability analysis. <i>Powder Technology</i> , 2021 , 380, 152-163 | 5.2 | 20 |
| 65 | Energy and exergy analyses of nanofluid-filled parabolic trough solar collector with acentric absorber tube and insulator roof. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 145, 787-816 | 4.1 | 3 |
| 64 | Molybdenum disulfide/water nanofluid morphology effects on the solar collector: first and second thermodynamic law analysis. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2021 , 43, 1 | 2 | 1 |
| 63 | Twisted tape variable wavelength effect on nanofluid flow and heat transfer inside elliptical shape tube. <i>European Physical Journal Plus</i> , 2021 , 136, 1 | 3.1 | 2 |
| 62 | Shell-and-tube heat exchangers performance improvement employing hybrid segmentalfielical baffles and ribbed tubes combination. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2021 , 43, 1 | 2 | 2 |
| 61 | Double-pass shell-and-tube heat exchanger performance enhancement with new combined baffle and elliptical tube bundle arrangement. <i>International Journal of Thermal Sciences</i> , 2021 , 167, 106999 | 4.1 | 4 |
| 60 | Numerical investigation of nanofluid flow characteristics and heat transfer inside a twisted tube with elliptic cross section. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 140, 1237-1257 | 4.1 | 12 |
| 59 | Experimental thermal analysis of a turbulent nano enriched water flow in a circular tube. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 124010 | 3.3 | 1 |
| 58 | Statistical analysis of enriched water heat transfer with various sizes of MgO nanoparticles using artificial neural networks modeling. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020 , 554, 1239 | 5 0 3 | 9 |
| 57 | On the Thermal Performance of a Fractal Microchannel Subjected to Water and Kerosene Carbon Nanotube Nanofluid. <i>Scientific Reports</i> , 2020 , 10, 7243 | 4.9 | 19 |
| 56 | Enhanced heat transfer in pin fin heat sink working with nitrogen gasWater two-phase flow: variable pin length and longitudinal pitch. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 140, 2875-2 | 2901 | 3 |
| 55 | Two-phase nanofluid flow simulation with different nanoparticle morphologies in a novel parabolic trough solar collector equipped with acentric absorber tube and insulator roof. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2020 , 42, 1 | 2 | О |
| 54 | Analysis of fluid flow and heat transfer of nanofluid inside triangular enclosure equipped with rotational obstacle. <i>Journal of Mechanical Science and Technology</i> , 2019 , 33, 4917-4929 | 1.6 | 7 |
| 53 | Heat transfer intensification in pin-fin heat sink by changing pin-length/longitudinal-pitch. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019 , 141, 107544 | 3.7 | 8 |
| 52 | Brownian models effect on turbulent fluid flow and heat transfer and entropy generation of water/boehmite alumina nanofluid inside enclosure. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 30, 2305-2327 | 4.5 | 1 |

| 51 | Numerical optimization of obstructed high temperature heat exchanger for recovery from the flue gases by considering ash fouling characteristics. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019 , 30, 2273-2303 | 4.5 | 1 |
|----|---|--------------------|-----------------|
| 50 | Shell and tube heat exchanger optimization using new baffle and tube configuration. <i>Applied Thermal Engineering</i> , 2019 , 157, 113736 | 5.8 | 38 |
| 49 | On the thermal characteristics of a manifold microchannel heat sink subjected to nanofluid using two-phase flow simulation. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 143, 118518 | 4.9 | 43 |
| 48 | Proposing a modified engine oil to reduce cold engine start damages and increase safety in high temperature operating conditions. <i>Powder Technology</i> , 2019 , 355, 251-263 | 5.2 | 50 |
| 47 | Experimental investigation of thermal conductivity behavior of MWCNTS-Al2O3/ethylene glycol hybrid Nanofluid: providing new thermal conductivity correlation. <i>Heat and Mass Transfer</i> , 2019 , 55, 232 | 3-2 339 | 9 ²¹ |
| 46 | Improving shell and tube heat exchanger thermohydraulic performance using combined baffle. International Journal of Numerical Methods for Heat and Fluid Flow, 2019 , 30, 4119-4140 | 4.5 | 5 |
| 45 | Proposing new hybrid nano-engine oil for lubrication of internal combustion engines: Preventing cold start engine damages and saving@energy. <i>Energy</i> , 2019 , 170, 228-238 | 7.9 | 75 |
| 44 | Thermal radiation effect on the flow field and heat transfer of Co3O4-diamond/EG hybrid nanofluid using experimental data: A numerical study. <i>European Physical Journal Plus</i> , 2019 , 134, 1 | 3.1 | 3 |
| 43 | Wings shape effect on behavior of hybrid nanofluid inside a channel having vortex generator. <i>Heat and Mass Transfer</i> , 2019 , 55, 1969-1983 | 2.2 | 4 |
| 42 | An experimental determination and accurate prediction of dynamic viscosity of MWCNT(%40)-SiO2(%60)/5W50 nano-lubricant. <i>Journal of Molecular Liquids</i> , 2018 , 259, 227-237 | 6 | 51 |
| 41 | A study on rheological characteristics of hybrid nano-lubricants containing MWCNT-TiO2 nanoparticles. <i>Journal of Molecular Liquids</i> , 2018 , 260, 229-236 | 6 | 54 |
| 40 | Numerical simulation of double-diffusive mixed convection in an enclosure filled with nanofluid using Bejan heatlines and masslines. <i>AEJ - Alexandria Engineering Journal</i> , 2018 , 57, 1287-1300 | 6.1 | 20 |
| 39 | Al/ oil nanofluids inside annular tube: an experimental study on convective heat transfer and pressure drop. <i>Heat and Mass Transfer</i> , 2018 , 54, 1053-1067 | 2.2 | 16 |
| 38 | Improving engine oil lubrication in light-duty vehicles by using of dispersing MWCNT and ZnO nanoparticles in 5W50 as viscosity index improvers (VII). <i>Applied Thermal Engineering</i> , 2018 , 143, 493-500 | € ^{.8} | 93 |
| 37 | ANN modeling, cost performance and sensitivity analyzing of thermal conductivity of DWCNTBiO2/EG hybrid nanofluid for higher heat transfer. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018 , 131, 2381-2393 | 4.1 | 93 |
| 36 | Experimental study on rheological behavior of monograde heavy-duty engine oil containing CNTs and oxide nanoparticles with focus on viscosity analysis. <i>Journal of Molecular Liquids</i> , 2018 , 272, 319-329 | 96 | 40 |
| 35 | MHD forced convection and entropy generation of CuO-water nanofluid in a microchannel considering slip velocity and temperature jump. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2017 , 39, 775-790 | 2 | 46 |
| 34 | Estimation of thermal conductivity of ethylene glycol-based nanofluid with hybrid suspensions of | 4.1 | 112 |

| 33 | Numerical study of laminar-forced convection of Al2O3-water nanofluids between two parallel plates. <i>Journal of Mechanical Science and Technology</i> , 2017 , 31, 785-796 | 1.6 | 12 |
|----|---|-------------------|-----|
| 32 | Thermally developing flow of Al2O3-water nanofluid through regular N-sided polygonal ducts: A semi-analytic weighted residuals approach. <i>International Journal of Refrigeration</i> , 2017 , 78, 136-156 | 3.8 | 1 |
| 31 | Experimental investigation on non-Newtonian behavior of Al2O3-MWCNT/5W50 hybrid nano-lubricant affected by alterations of temperature, concentration and shear rate for engine applications. <i>International Communications in Heat and Mass Transfer</i> , 2017 , 82, 97-102 | 5.8 | 81 |
| 30 | Numerical study of different conduction models for Al2O3-water nanofluid with variable properties inside a trapezoidal enclosure. <i>Journal of Mechanical Science and Technology</i> , 2017 , 31, 2433-2441 | 1.6 | 2 |
| 29 | Nanoparticle shape effects on thermal-hydraulic performance of boehmite alumina nanofluids in a sinusoidal wavy mini-channel with phase shift and variable wavelength. <i>International Journal of Mechanical Sciences</i> , 2017 , 128-129, 550-563 | 5.5 | 77 |
| 28 | Heat transfer improvement of water/single-wall carbon nanotubes (SWCNT) nanofluid in a novel design of a truncated double-layered microchannel heat sink. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 113, 780-795 | 4.9 | 180 |
| 27 | Mixed convection heat transfer: an experimental study on Cu/heat transfer oil nanofluids inside annular tube. <i>Heat and Mass Transfer</i> , 2017 , 53, 2875-2884 | 2.2 | 10 |
| 26 | Natural convection in T-shaped cavities filled with water-based suspensions of COOH-functionalized multi walled carbon nanotubes. <i>International Journal of Mechanical Sciences</i> , 2017 , 121, 21-32 | 5.5 | 41 |
| 25 | Determining the Optimum Arrangement of Micromixers in a Microchannel Filled with CuO-Water Nanofluid via Minimizing Entropy Generation. <i>Defect and Diffusion Forum</i> , 2017 , 378, 39-58 | 0.7 | 2 |
| 24 | Empirical study and model development of thermal conductivity improvement and assessment of cost and sensitivity of EG-water based SWCNT-ZnO (30%:70%) hybrid nanofluid. <i>Journal of Molecular Liquids</i> , 2017 , 244, 252-261 | 6 | 82 |
| 23 | Application of three-level general factorial design approach for thermal conductivity of MgO/water nanofluids. <i>Applied Thermal Engineering</i> , 2017 , 127, 1194-1199 | 5.8 | 79 |
| 22 | MHD wedge flow of nanofluids with an analytic solution to an especial case by Lambert W-function and Homotopy Perturbation Method 2017 , 20, 1515-1530 | | 10 |
| 21 | Thermal conductivity enhancement of SiO2MWCNT (85:15 %) EG hybrid nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017 , 128, 249-258 | 4.1 | 122 |
| 20 | Multi-objective optimization of cost and thermal performance of double walled carbon nanotubes/water nanofluids by NSGA-II using response surface method. <i>Applied Thermal Engineering</i> , 2017 , 112, 1648-1657 | 5.8 | 84 |
| 19 | Optimization, modeling and accurate prediction of thermal conductivity and dynamic viscosity of stabilized ethylene glycol and water mixture Al 2 O 3 nanofluids by NSGA-II using ANN. <i>International Communications in Heat and Mass Transfer</i> , 2017 , 82, 154-160 | 5.8 | 96 |
| 18 | NATURAL CONVECTION IN NANOFLUID-FILLED SQUARE CHAMBERS SUBJECTED TO LINEAR HEATING ON BOTH SIDES: A NUMERICAL STUDY. <i>Heat Transfer Research</i> , 2017 , 48, 771-785 | 3.9 | 1 |
| 17 | Mixed Convection Flow and Heat Transfer in an Up-Driven, Inclined, Square Enclosure Subjected to DWCNT-Water Nanofluid Containing Three Circular Heat Sources. <i>Current Nanoscience</i> , 2017 , 13, 311-3 | 2 3 ·4 | 28 |
| 16 | Estimation of Heat Transfer Coefficient and Thermal Performance Factor of TiO2-water Nanofluid Using Different Thermal Conductivity Models. <i>Current Nanoscience</i> , 2017 , 13, | 1.4 | 4 |

LIST OF PUBLICATIONS

| 15 | Numerical Study of Mixed Convection Inside a Eshaped Cavity with Mg(OH2)-EG Nanofluids. <i>Current Nanoscience</i> , 2017 , 13, | 1.4 | 3 |
|----|--|-----|-----|
| 14 | Natural convection in a trapezoidal enclosure filled with carbon nanotube E GWater nanofluid. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 92, 76-82 | 4.9 | 106 |
| 13 | The optimization of viscosity and thermal conductivity in hybrid nanofluids prepared with magnetic nanocomposite of nanodiamond cobalt-oxide (ND-Co3O4) using NSGA-II and RSM. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 79, 128-134 | 5.8 | 73 |
| 12 | Mixed convection heat transfer from surface-mounted block heat sources in a horizontal channel with nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 89, 783-791 | 4.9 | 85 |
| 11 | Experimental determination of thermal conductivity and dynamic viscosity of AgMgO/water hybrid nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2015 , 66, 189-195 | 5.8 | 355 |
| 10 | Double-diffusive natural convective in a porous square enclosure filled with nanofluid. <i>International Journal of Thermal Sciences</i> , 2015 , 95, 88-98 | 4.1 | 30 |
| 9 | Experimental investigation of diameter effect on heat transfer performance and pressure drop of TiO2Water nanofluid. <i>Experimental Thermal and Fluid Science</i> , 2013 , 44, 520-533 | 3 | 141 |
| 8 | NUMERICAL SIMULATION OF NATURAL CONVECTION AROUND AN OBSTACLE PLACED IN AN ENCLOSURE FILLED WITH DIFFERENT TYPE OF NANOFLUID. <i>Heat Transfer Research</i> , 2013 , | 3.9 | 5 |
| 7 | Numerical study of mixed convection flow in a lid-driven cavity with sinusoidal heating on sidewalls using nanofluid. <i>Superlattices and Microstructures</i> , 2012 , 51, 893-911 | 2.8 | 62 |
| 6 | Experimental study on the effect of TiO2Water nanofluid on heat transfer and pressure drop. <i>Experimental Thermal and Fluid Science</i> , 2012 , 42, 107-115 | 3 | 124 |
| 5 | Numerical Comparison of Two and Three Dimensional Flow Regimes in Porous Media. <i>Defect and Diffusion Forum</i> , 2011 , 312-315, 427-432 | 0.7 | |
| 4 | Free Convection in a Nanofluid Filled Square Cavity with an Horizontal Heated Plate. <i>Defect and Diffusion Forum</i> , 2011 , 312-315, 433-438 | 0.7 | 5 |
| 3 | Numerical Simulation of Two-Phase Inertial Flow in Heterogeneous Porous Media. <i>Transport in Porous Media</i> , 2010 , 84, 177-200 | 3.1 | 19 |
| 2 | Two-Phase Inertial Flow in Homogeneous Porous Media: A Theoretical Derivation of a Macroscopic Model. <i>Transport in Porous Media</i> , 2008 , 75, 371-400 | 3.1 | 25 |
| 1 | Performance evaluation and entropy generation of chevron-type plate-fin equipped with ribs and holes. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> ,095440622110127 | 1.3 | |