# Ioan Pop

## List of Publications by Year in descending order



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|---|---|---|---|
| 645 papers | 27,254 citations | 7096 78 h-index | 16183 124 g-index |
| 650 all docs | 650 docs citations | 650 times ranked | 5295 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A review of the applications of nanofluids in solar energy. International Journal of Heat and Mass Transfer, 2013, 57, 582-594. | 4.8 | 1,081 |
| 2 | Recent advances in modeling and simulation of nanofluid flows-Part I: Fundamentals and theory. Physics Reports, 2019, 790, 1-48. | 25.6 | 670 |
| 3 | A review of entropy generation in nanofluid flow. International Journal of Heat and Mass Transfer, 2013, 65, 514-532. | 4.8 | 434 |
| 4 | Recent advances in modeling and simulation of nanofluid flowsâ€"Part II: Applications. Physics Reports, 2019, 791, 1-59. | 25.6 | 389 |
| 5 | Nanofluid flow and heat transfer in porous media: A review of the latest developments. International Journal of Heat and Mass Transfer, 2017, 107, 778-791. | 4.8 | 377 |
| 6 | Boundary-layer flow of nanofluids over a moving surface in a flowing fluid. International Journal of Thermal Sciences, 2010, 49, 1663-1668. | 4.9 | 323 |
| 7 | Unsteady flow and heat transfer past a stretching/shrinking sheet in a hybrid nanofluid. International Journal of Heat and Mass Transfer, 2019, 136, 288-297. | 4.8 | 262 |
| 8 | Stagnation point flow of a micropolar fluid towards a stretching sheet. International Journal of Non-Linear Mechanics, 2004, 39, 1227-1235. | 2.6 | 261 |
| 9 | Flow and heat transfer over a vertical permeable stretching/shrinking sheet with a second order slip. International Journal of Heat and Mass Transfer, 2013, 60, 355-364. | 4.8 | 239 |
| 10 | Boundary layer flow and heat transfer over an unsteady stretching vertical surface. Meccanica, 2009, 44, 369-375. | 2.0 | 237 |
| 11 | Free convection in a square porous cavity using a thermal nonequilibrium model. International Journal of Thermal Sciences, 2002, 41, 861-870. | 4.9 | 218 |
| 12 | Mixed convection boundary layer flow from a vertical flat plate embedded in a porous medium filled with nanofluids. International Communications in Heat and Mass Transfer, 2010, 37, 987-991. | 5.6 | 217 |
| 13 | STAGNATION-POINT FLOW OVER A SHRINKING SHEET IN A MICROPOLAR FLUID. Chemical Engineering Communications, 2010, 197, 1417-1427. | 2.6 | 216 |
| 14 | Flow and heat transfer over a rotating porous disk in a nanofluid. Physica B: Condensed Matter, 2011, 406, 1767-1772. | 2.7 | 199 |
| 15 | Dual solutions for mixed convective stagnation-point flow of an aqueous silicaâ€"alumina hybrid nanofluid. Chinese Journal of Physics, 2018, 56, 2465-2478. | 3.9 | 195 |
| 16 | Unsteady boundary layer flow in the region of the stagnation point on a stretching sheet. International Journal of Engineering Science, 2004, 42, 1241-1253. | 5.0 | 193 |
| 17 | Falknerâ€"Skan problem for a static or moving wedge in nanofluids. International Journal of Thermal Sciences, 2011, 50, 133-139. | 4.9 | 186 |
| 18 | Effects of thermal radiation on micropolar fluid flow and heat transfer over a porous shrinking sheet. International Journal of Heat and Mass Transfer, 2012, 55, 2945-2952. | 4.8 | 177 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Heat transfer over an unsteady stretching permeable surface with prescribed wall temperature. Nonlinear Analysis: Real World Applications, 2009, 10, 2909-2913. | 1.7 | 174 |
| 20 | MHD stagnation point flow towards a stretching sheet. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 3377-3383. | 2.6 | 174 |
| 21 | Explicit analytic solution for similarity boundary layer equations. International Journal of Heat and Mass Transfer, 2004, 47, 75-85. | 4.8 | 168 |
| 22 | MHD flow and heat transfer near stagnation point over a stretching/shrinking surface with partial slip and viscous dissipation: Hybrid nanofluid versus nanofluid. Powder Technology, 2020, 367, 192-205. | 4.2 | 163 |
| 23 | Magnetohydrodynamic (MHD) flow and heat transfer due to a stretching cylinder. Energy Conversion and Management, 2008, 49, 3265-3269. | 9.2 | 158 |
| 24 | On the stagnation-point flow towards a stretching sheet with homogeneousâ€“heterogeneous reactions effects. Communications in Nonlinear Science and Numerical Simulation, 2011, 16, 4296-4302. | 3.3 | 158 |
| 25 | MHD mixed convection in a lid-driven cavity with corner heater. International Journal of Heat and Mass Transfer, 2011, 54, 3494-3504. | 4.8 | 157 |
| 26 | Effect of magnetic field on natural convection in a triangular enclosure filled with nanofluid. International Journal of Thermal Sciences, 2012, 59, 126-140. | 4.9 | 152 |
| 27 | Natural convection in an inclined cavity with time-periodic temperature boundary conditions using nanofluids: Application in solar collectors. International Journal of Heat and Mass Transfer, 2018, 116, 751-761. | 4.8 | 149 |
| 28 | Unsteady boundary-layer flow and heat transfer of a nanofluid over a permeable stretching/shrinking sheet. International Journal of Heat and Mass Transfer, 2012, 55, 2102-2109. | 4.8 | 147 |
| 29 | The effect of variable viscosity on flow and heat transfer to a continuous moving flat plate. International Journal of Engineering Science, 1992, 30, 1-6. | 5.0 | 145 |
| 30 | Melting heat transfer in boundary layer stagnation-point flow towards a stretching/shrinking sheet. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 4075-4079. | 2.1 | 143 |
| 31 | Uniform suction/blowing effect on flow and heat transfer due to a stretching cylinder. Applied Mathematical Modelling, 2008, 32, 2059-2066. | 4.2 | 141 |
| 32 | Unsteady boundary layer flow over a permeable curved stretching/shrinking surface. European Journal of Mechanics, B/Fluids, 2015, 51, 61-67. | 2.5 | 139 |
| 33 | Melting heat transfer in boundary layer stagnation-point flow towards a stretching/shrinking sheet in a micropolar fluid. Computers and Fluids, 2011, 47, 16-21. | 2.5 | 138 |
| 34 | Analysis of melting behavior of PCMs in a cavity subject to a non-uniform magnetic field using a moving grid technique. Applied Mathematical Modelling, 2020, 77, 1936-1953. | 4.2 | 138 |
| 35 | Magnetohydrodynamics (MHD) axisymmetric flow and heat transfer of a hybrid nanofluid past a radially permeable stretching/shrinking sheet with Joule heating. Chinese Journal of Physics, 2020, 64, 251-263. | 3.9 | 138 |
| 36 | Magnetic field effect on the unsteady natural convection in a wavy-walled cavity filled with a nanofluid: Buongiorno's mathematical model. Journal of the Taiwan Institute of Chemical Engineers, 2016, 61, 211-222. | 5.3 | 137 |

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|---|---|---|---|
| 37 | Stagnation-point flow over a stretching/shrinking sheet in a nanofluid. Nanoscale Research Letters, 2011, 6, 623. | 5.7 | 136 |
| 38 | Free convection in a triangle cavity filled with a porous medium saturated with nanofluids with flush mounted heater on the wall. International Journal of Thermal Sciences, 2011, 50, 2141-2153. | 4.9 | 134 |
| 39 | Numerical simulation of unsteady mixed convection in a driven cavity using an externally excited sliding lid. European Journal of Mechanics, B/Fluids, 2007, 26, 669-687. | 2.5 | 132 |
| 40 | Stagnation-point flow of an aqueous titania-copper hybrid nanofluid toward a wavy cylinder. International Journal of Numerical Methods for Heat and Fluid Flow, 2018, 28, 1716-1735. | 2.8 | 132 |
| 41 | Scrutinization of the effects of Grashof number on the flow of different fluids driven by convection over various surfaces. Journal of Molecular Liquids, 2018, 249, 980-990. | 4.9 | 129 |
| 42 | MHD natural convection and entropy generation in a trapezoidal enclosure using Cuâ€“water nanofluid. Computers and Fluids, 2013, 72, 46-62. | 2.5 | 128 |
| 43 | Effect of sinusoidal wavy bottom surface on mixed convection heat transfer in a lid-driven cavity. International Journal of Heat and Mass Transfer, 2007, 50, 1771-1780. | 4.8 | 127 |
| 44 | Heat transfer over a stretching surface with variable heat flux in micropolar fluids. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 559-561. | 2.1 | 127 |
| 45 | Mixed convection boundary layer flow and heat transfer over a vertical plate embedded in a porous medium filled with a suspension of nano-encapsulated phase change materials. Journal of Molecular Liquids, 2019, 293, 111432. | 4.9 | 124 |
| 46 | Natural convection of nanofluid inside a wavy cavity with a non-uniform heating. International Journal of Numerical Methods for Heat and Fluid Flow, 2017, 27, 958-980. | 2.8 | 123 |
| 47 | MHD flow and heat transfer over a permeable stretching/shrinking sheet in a hybrid nanofluid with a convective boundary condition. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 3012-3038. | 2.8 | 121 |
| 48 | Boundary Layer Flow over a Continuously Moving Thin Needle in a Parallel Free Stream. Chinese Physics Letters, 2007, 24, 2895-2897. | 3.3 | 117 |
| 49 | Boundary layer flow past a stretching/shrinking surface beneath an external uniform shear flow with a convective surface boundary condition in a nanofluid. Nanoscale Research Letters, 2011, 6, 314. | 5.7 | 117 |
| 50 | Energy storage system based on nanoparticle-enhanced phase change material inside porous medium. International Journal of Thermal Sciences, 2015, 91, 49-58. | 4.9 | 117 |
| 51 | Falkner-Skan equation for flow past a moving wedge with suction or injection. Journal of Applied Mathematics and Computing, 2007, 25, 67-83. | 2.5 | 115 |
| 52 | Local thermal non-equilibrium analysis of conjugate free convection within a porous enclosure occupied with Agâ€“MgO hybrid nanofluid. Journal of Thermal Analysis and Calorimetry, 2019, 135, 1381-1398. | 3.6 | 114 |
| 53 | Boundary layer stagnation-point flow and heat transfer over an exponentially stretching/shrinking sheet in a nanofluid. International Journal of Heat and Mass Transfer, 2012, 55, 8122-8128. | 4.8 | 113 |
| 54 | Free convection in a partially heated wavy porous cavity filled with a nanofluid under the effects of Brownian diffusion and thermophoresis. Applied Thermal Engineering, 2017, 113, 413-418. | 6.0 | 113 |

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|---|---|---|---|
| 55 | Blasius and Sakiadis problems in nanofluids. Acta Mechanica, 2011, 218, 195-204. | 2.1 | 112 |
| 56 | Flow and heat transfer at a general three-dimensional stagnation point in a nanofluid. Physica B: Condensed Matter, 2010, 405, 4914-4918. | 2.7 | 110 |
| 57 | Flow and heat transfer characteristics on a moving plate in a nanofluid. International Journal of Heat and Mass Transfer, 2012, 55, 642-648. | 4.8 | 110 |
| 58 | Hybrid nanofluid flow and heat transfer over a nonlinear permeable stretching/shrinking surface. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 3110-3127. | 2.8 | 110 |
| 59 | Mixed convection of a hybrid nanofluid flow along a vertical surface embedded in a porous medium. International Communications in Heat and Mass Transfer, 2020, 114, 104565. | 5.6 | 109 |
| 60 | MHD mixed convection stagnation-point flow of Cu-Al2O3/water hybrid nanofluid over a permeable stretching/shrinking surface with heat source/sink. European Journal of Mechanics, B/Fluids, 2020, 84, 71-80. | 2.5 | 106 |
| 61 | Series solutions of unsteady three-dimensional MHD flow and heat transfer in the boundary layer over an impulsively stretching plate. European Journal of Mechanics, B/Fluids, 2007, 26, 15-27. | 2.5 | 105 |
| 62 | Flow and heat transfer of hybrid nanofluid over a permeable shrinking cylinder with Joule heating: A comparative analysis. AEJ - Alexandria Engineering Journal, 2020, 59, 1787-1798. | 6.4 | 105 |
| 63 | Transpiration effects on hybrid nanofluid flow and heat transfer over a stretching/shrinking sheet with uniform shear flow. AEJ - Alexandria Engineering Journal, 2020, 59, 91-99. | 6.4 | 101 |
| 64 | MHD mixed convection stagnation point flow of a hybrid nanofluid past a vertical flat plate with convective boundary condition. Chinese Journal of Physics, 2020, 66, 630-644. | 3.9 | 101 |
| 65 | Mixed convection stagnation point flow past a vertical flat plate with a second order slip: Heat flux case. International Journal of Heat and Mass Transfer, 2013, 65, 102-109. | 4.8 | 99 |
| 66 | MHD thermogravitational convection and thermal radiation of a micropolar nanoliquid in a porous chamber. International Communications in Heat and Mass Transfer, 2020, 110, 104409. | 5.6 | 98 |
| 67 | Free Convection in a Parallelogrammic Porous Cavity Filled with a Nanofluid Using Tiwari and Dasâ€™ Nanofluid Model. PLoS ONE, 2015, 10, e0126486. | 2.5 | 95 |
| 68 | Free convection of copperâ€“water nanofluid in a porous gap between hot rectangular cylinder and cold circular cylinder under the effect of inclined magnetic field. Journal of Thermal Analysis and Calorimetry, 2019, 135, 1171-1184. | 3.6 | 93 |
| 69 | Effect of thermal dispersion on transient natural convection in a wavy-walled porous cavity filled with a nanofluid: Tiwari and Dasâ€™ nanofluid model. International Journal of Heat and Mass Transfer, 2016, 92, 1053-1060. | 4.8 | 92 |
| 70 | Boundary layer flow and heat transfer over a nonlinearly permeable stretching/shrinking sheet in a nanofluid. Scientific Reports, 2014, 4, 4404. | 3.3 | 91 |
| 71 | Analysis of Entropy Generation in Natural Convection of Nanofluid inside a Square Cavity Having Hot Solid Block: Tiwari and Dasâ€™ Model. Entropy, 2016, 18, 9. | 2.2 | 90 |
| 72 | Cu-Al2O3/water hybrid nanofluid flow over a permeable moving surface in presence of hydromagnetic and suction effects. AEJ - Alexandria Engineering Journal, 2020, 59, 657-666. | 6.4 | 90 |

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|---|---|---|---|
| 73 | Entropy generation between two vertical cylinders in the presence of MHD flow subjected to constant wall temperature. International Communications in Heat and Mass Transfer, 2013, 44, 87-92. | 5.6 | 89 |
| 74 | A novel hybridity model for TiO2-CuO/water hybrid nanofluid flow over a static/moving wedge or corner. Scientific Reports, 2019, 9, 16290. | 3.3 | 89 |
| 75 | Numerical analysis of natural convection for a porous rectangular enclosure with sinusoidally varying temperature profile on the bottom wall. International Communications in Heat and Mass Transfer, 2008, 35, 56-64. | 5.6 | 86 |
| 76 | Vertical Free Convective Boundary-Layer Flow in a Porous Medium Using a Thermal Nonequilibrium Model. Journal of Porous Media, 2000, 3, 31-44. | 1.9 | 85 |
| 77 | Boundary layer flow past a continuously moving thin needle in a nanofluid. Applied Thermal Engineering, 2017, 114, 58-64. | 6.0 | 84 |
| 78 | MHD flow and heat transfer of hybrid nanofluid over a permeable moving surface in the presence of thermal radiation. International Journal of Numerical Methods for Heat and Fluid Flow, 2021, 31, 858-879. | 2.8 | 83 |
| 79 | Natural Convection from a Discrete Heater in a Square Cavity Filled with a Porous Medium. Journal of Porous Media, 2005, 8, 55-64. | 1.9 | 83 |
| 80 | Magnetohydrodynamic (MHD) flow of a micropolar fluid towards a stagnation point on a vertical surface. Computers and Mathematics With Applications, 2008, 56, 3188-3194. | 2.7 | 82 |
| 81 | A heatline analysis of natural convection in a square inclined enclosure filled with a CuO nanofluid under non-uniform wall heating condition. International Journal of Heat and Mass Transfer, 2012, 55, 5076-5086. | 4.8 | 82 |
| 82 | Fully developed mixed convection flow in a horizontal channel filled by a nanofluid containing both nanoparticles and gyrotactic microorganisms. European Journal of Mechanics, B/Fluids, 2014, 46, 37-45. | 2.5 | 82 |
| 83 | Irreversibility analysis of a vertical annulus using TiO2/water nanofluid with MHD flow effects. International Journal of Heat and Mass Transfer, 2013, 64, 671-679. | 4.8 | 81 |
| 84 | Fully developed mixed convection flow of a nanofluid through an inclined channel filled with a porous medium. International Journal of Heat and Mass Transfer, 2012, 55, 907-914. | 4.8 | 80 |
| 85 | Hybrid nanofluid flow induced by an exponentially shrinking sheet. Chinese Journal of Physics, 2020, 68, 468-482. | 3.9 | 80 |
| 86 | MHD mixed convection flow near the stagnation-point on a vertical permeable surface. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 40-46. | 2.6 | 79 |
| 87 | MHD boundary layer flow and heat transfer over a stretching sheet with induced magnetic field. Heat and Mass Transfer, 2011, 47, 155-162. | 2.1 | 78 |
| 88 | Mixed convection flow over a solid sphere embedded in a porous medium filled by a nanofluid containing gyrotactic microorganisms. International Journal of Heat and Mass Transfer, 2013, 62, 647-660. | 4.8 | 78 |
| 89 | Unsteady hybrid nanofluid flow over a radially permeable shrinking/stretching surface. Journal of Molecular Liquids, 2021, 331, 115752. | 4.9 | 78 |
| 90 | Melting heat transfer in steady laminar flow over a moving surface. Heat and Mass Transfer, 2010, 46, 463-468. | 2.1 | 77 |

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|---|---|---|---|
| 91 | Falknerâ€“Skan problem for a static and moving wedge with prescribed surface heat flux in a nanofluid. International Communications in Heat and Mass Transfer, 2011, 38, 149-153. | 5.6 | 77 |
| 92 | Flow and heat transfer over an unsteady shrinking sheet with suction in nanofluids. International Journal of Heat and Mass Transfer, 2012, 55, 1888-1895. | 4.8 | 77 |
| 93 | Forced convection heat and mass transfer flow of a nanofluid through a porous channel with a first order chemical reaction on the wall. International Communications in Heat and Mass Transfer, 2013, 46, 134-141. | 5.6 | 77 |
| 94 | Three-Dimensional Hybrid Nanofluid Flow and Heat Transfer past a Permeable Stretching/Shrinking Sheet with Velocity Slip and Convective Condition. Chinese Journal of Physics, 2020, 66, 157-171. | 3.9 | 77 |
| 95 | Mixed convection flow over an exponentially stretching/shrinking vertical surface in a hybrid nanofluid. AEJ - Alexandria Engineering Journal, 2020, 59, 1881-1891. | 6.4 | 77 |
| 96 | Stability analysis of MHD hybrid nanofluid flow over a stretching/shrinking sheet with quadratic velocity. AEJ - Alexandria Engineering Journal, 2021, 60, 915-926. | 6.4 | 77 |
| 97 | Non-Darcian effects on natural convection heat transfer in a wavy porous enclosure. International Journal of Heat and Mass Transfer, 2009, 52, 1887-1896. | 4.8 | 76 |
| 98 | Visualization of natural convection heat transport using heatline method in porous non-isothermally heated triangular cavity. International Journal of Heat and Mass Transfer, 2008, 51, 5040-5051. | 4.8 | 75 |
| 99 | Natural convection in right-angle porous trapezoidal enclosure partially cooled from inclined wall. International Communications in Heat and Mass Transfer, 2009, 36, 6-15. | 5.6 | 75 |
| 100 | Dual solutions for Casson hybrid nanofluid flow due to a stretching/shrinking sheet: A new combination of theoretical and experimental models. Chinese Journal of Physics, 2021, 71, 574-588. | 3.9 | 74 |
| 101 | Magnetohydrodynamics (MHD) boundary layer flow of hybrid nanofluid over a moving plate with Joule heating. AEJ - Alexandria Engineering Journal, 2022, 61, 1938-1945. | 6.4 | 73 |
| 102 | Dual solutions in mixed convection flow near a stagnation point on a vertical porous plate. International Journal of Thermal Sciences, 2008, 47, 417-422. | 4.9 | 72 |
| 103 | Hybrid nanofluid flow and heat transfer past a vertical thin needle with prescribed surface heat flux. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 4875-4894. | 2.8 | 72 |
| 104 | Mixed Convective Stagnation Point Flow towards a Vertical Riga Plate in Hybrid Cu-Al2O3/Water Nanofluid. Mathematics, 2020, 8, 912. | 2.2 | 72 |
| 105 | MHD heat and mass transfer flow over a permeable stretching/shrinking sheet with radiation effect. Journal of Magnetism and Magnetic Materials, 2016, 407, 235-240. | 2.3 | 71 |
| 106 | Moving wedge and flat plate in a micropolar fluid. International Journal of Engineering Science, 2006, 44, 1225-1236. | 5.0 | 70 |
| 107 | Modeling and optimization of thermal conductivity and viscosity of MnFe2O4 nanofluid under magnetic field using an ANN. Scientific Reports, 2017, 7, 17369. | 3.3 | 70 |
| 108 | Inclined Lorentz force impact on convective-radiative heat exchange of micropolar nanofluid inside a porous enclosure with tilted elliptical heater. International Communications in Heat and Mass Transfer, 2020, 117, 104762. | 5.6 | 70 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Hybrid nanofluid flow towards a stagnation point on a stretching/shrinking cylinder. Scientific Reports, 2020, 10, 9296. | 3.3 | 69 |
| 110 | Heat generation/absorption effect on MHD flow of hybrid nanofluid over bidirectional exponential stretching/shrinking sheet. Chinese Journal of Physics, 2021, 69, 118-133. | 3.9 | 69 |
| 111 | Micropolar fluid flow towards a stretching/shrinking sheet in a porous medium with suction. International Communications in Heat and Mass Transfer, 2012, 39, 826-829. | 5.6 | 68 |
| 112 | The boundary layers of an unsteady stagnation-point flow in a nanofluid. International Journal of Heat and Mass Transfer, 2012, 55, 6499-6505. | 4.8 | 68 |
| 113 | Effects of moving lid direction on MHD mixed convection in a linearly heated cavity. International Journal of Heat and Mass Transfer, 2012, 55, 1103-1112. | 4.8 | 68 |
| 114 | Free convection in a triangular cavity filled with a porous medium saturated by a nanofluid. International Journal of Numerical Methods for Heat and Fluid Flow, 2015, 25, 1138-1161. | 2.8 | 68 |
| 115 | MHD boundary-layer flow of a micropolar fluid past a wedge with constant wall heat flux. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 109-118. | 3.3 | 67 |
| 116 | Flow and heat transfer along a permeable stretching/shrinking curved surface in a hybrid nanofluid. Physica Scripta, 2019, 94, 105219. | 2.5 | 67 |
| 117 | Unsteady mixed convection boundary layer flow near the stagnation point on a vertical surface in a porous medium. International Journal of Heat and Mass Transfer, 2004, 47, 2681-2688. | 4.8 | 66 |
| 118 | Time-dependent natural convection of micropolar fluid in a wavy triangular cavity. International Journal of Heat and Mass Transfer, 2017, 105, 610-622. | 4.8 | 66 |
| 119 | MHD natural convection and entropy analysis of a nanofluid inside T-shaped baffled enclosure. International Journal of Numerical Methods for Heat and Fluid Flow, 2018, 28, 2916-2941. | 2.8 | 66 |
| 120 | Free convection heat transfer of MgO-MWCNTs/EG hybrid nanofluid in a porous complex shaped cavity with MHD and thermal radiation effects. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 4349-4376. | 2.8 | 66 |
| 121 | Hybrid Nanofluid Slip Flow over an Exponentially Stretching/Shrinking Permeable Sheet with Heat Generation. Mathematics, 2021, 9, 30. | 2.2 | 66 |
| 122 | Analysis of mixed convection flow of a nanofluid in a vertical channel with the Buongiorno mathematical model. International Communications in Heat and Mass Transfer, 2013, 44, 15-22. | 5.6 | 64 |
| 123 | Numerical analysis of natural convection in an inclined trapezoidal enclosure filled with a porous medium. International Journal of Thermal Sciences, 2008, 47, 1316-1331. | 4.9 | 63 |
| 124 | Flow and heat transfer characteristics on a moving flat plate in a parallel stream with constant surface heat flux. Heat and Mass Transfer, 2009, 45, 563-567. | 2.1 | 63 |
| 125 | Flow and heat transfer in a nano-liquid film over an unsteady stretching surface. International Journal of Heat and Mass Transfer, 2013, 60, 646-652. | 4.8 | 62 |
| 126 | Magnetohydrodynamic stagnation-point flow towards a stretching/shrinking sheet with slip effects. International Communications in Heat and Mass Transfer, 2013, 47, 68-72. | 5.6 | 62 |

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|---|---|---|---|
| 127 | Free convection in a porous wavy cavity filled with a nanofluid using Buongiorno's mathematical model with thermal dispersion effect. Applied Mathematics and Computation, 2017, 299, 1-15. | 2.2 | 62 |
| 128 | Improvement of drug delivery micro-circulatory system with a novel pattern of CuO-Cu/blood hybrid nanofluid flow towards a porous stretching sheet. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 4408-4429. | 2.8 | 62 |
| 129 | Mixed convection in a square vented enclosure filled with a porous medium. International Journal of Heat and Mass Transfer, 2006, 49, 2190-2206. | 4.8 | 61 |
| 130 | Free-convective flow of copper/water nanofluid about a rotating down-pointing cone using Tiwari-Das nanofluid scheme. Advanced Powder Technology, 2017, 28, 900-909. | 4.1 | 61 |
| 131 | MHD flow and heat transfer over a radially stretching/shrinking disk. Chinese Journal of Physics, 2018, 56, 58-66. | 3.9 | 61 |
| 132 | Entropy analysis due to conjugate-buoyant flow in a right-angle trapezoidal enclosure filled with a porous medium bounded by a solid vertical wall. International Journal of Thermal Sciences, 2009, 48, 1161-1175. | 4.9 | 59 |
| 133 | Effects of magnetic field and thermal radiation on stagnation flow and heat transfer of nanofluid over a shrinking surface. International Communications in Heat and Mass Transfer, 2014, 53, 50-55. | 5.6 | 59 |
| 134 | Unsteady flow due to a contracting cylinder in a nanofluid using Buongiornoâ€™s model. International Journal of Heat and Mass Transfer, 2014, 68, 509-513. | 4.8 | 59 |
| 135 | Analysis of first and second laws of thermodynamics between two isothermal cylinders with relative rotation in the presence of MHD flow. International Journal of Heat and Mass Transfer, 2012, 55, 4808-4816. | 4.8 | 58 |
| 136 | Axisymmetric mixed convective stagnation-point flow of a nanofluid over a vertical permeable cylinder by Tiwari-Das nanofluid model. Powder Technology, 2017, 311, 147-156. | 4.2 | 58 |
| 137 | An MHD couple stress fluid due to a perforated sheet undergoing linear stretching with heat transfer. International Journal of Heat and Mass Transfer, 2017, 105, 157-167. | 4.8 | 58 |
| 138 | Effects of cavity and heat source aspect ratios on natural convection of a nanofluid in a C-shaped cavity using Lattice Boltzmann method. International Journal of Numerical Methods for Heat and Fluid Flow, 2018, 28, 1930-1955. | 2.8 | 58 |
| 139 | MHD hybrid nanofluid flow over a permeable stretching/shrinking sheet with thermal radiation effect. International Journal of Numerical Methods for Heat and Fluid Flow, 2021, 31, 1014-1031. | 2.8 | 58 |
| 140 | Mixed convection boundary layer flow of a viscoelastic fluid over a horizontal circular cylinder. International Journal of Non-Linear Mechanics, 2008, 43, 814-821. | 2.6 | 57 |
| 141 | Stagnation point flow and heat transfer over a stretching/shrinking sheet in a porous medium. International Communications in Heat and Mass Transfer, 2011, 38, 1029-1032. | 5.6 | 57 |
| 142 | Natural convection in a differentially heated enclosure filled with a micropolar fluid. International Journal of Thermal Sciences, 2007, 46, 963-969. | 4.9 | 56 |
| 143 | The effects of transpiration on the flow and heat transfer over a moving permeable surface in a parallel stream. Chemical Engineering Journal, 2009, 148, 63-67. | 12.7 | 56 |
| 144 | Flow and heat transfer over an unsteady shrinking sheet with suction in a nanofluid using Buongiorno's model. International Communications in Heat and Mass Transfer, 2013, 43, 75-80. | 5.6 | 56 |

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|---|---|---|---|
| 145 | Numerical exploration of a non-Newtonian Carreau fluid flow driven by catalytic surface reactions on an upper horizontal surface of a paraboloid of revolution, buoyancy and stretching at the free stream. AEJ - Alexandria Engineering Journal, 2017, 56, 647-658. | 6.4 | 56 |
| 146 | Natural convection of a hybrid nanofluid subjected to non-uniform magnetic field within porous medium including circular heater. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 1211-1231. | 2.8 | 56 |
| 147 | Unsteady stagnation flow and heat transfer towards a shrinking sheet. International Communications in Heat and Mass Transfer, 2010, 37, 1440-1446. | 5.6 | 55 |
| 148 | Unsteady boundary layer flow of a nanofluid past a moving surface in an external uniform free stream using Buongiornoâ€™s model. Computers and Fluids, 2014, 95, 49-55. | 2.5 | 55 |
| 149 | Flow and heat transfer of magnetohydrodynamic three-dimensional Maxwell nanofluid over a permeable stretching/shrinking surface with convective boundary conditions. International Journal of Mechanical Sciences, 2017, 124-125, 166-173. | 6.7 | 55 |
| 150 | Flow of aqueous Fe2O3â€“CuO hybrid nanofluid over a permeable stretching/shrinking wedge: A development on Falknerâ€“Skan problem. Chinese Journal of Physics, 2021, 74, 406-420. | 3.9 | 55 |
| 151 | Free convection in a porous horizontal cylindrical annulus with a nanofluid using Buongiornoâ€™s model. Computers and Fluids, 2015, 118, 182-190. | 2.5 | 54 |
| 152 | Laminar filmwise condensation of nanofluids over a vertical plate considering nanoparticles migration. Applied Thermal Engineering, 2016, 100, 979-986. | 6.0 | 54 |
| 153 | Mixed convection and stability analysis of stagnation-point boundary layer flow and heat transfer of hybrid nanofluids over a vertical plate. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 30, 3737-3754. | 2.8 | 53 |
| 154 | Analytic Series Solution for Unsteady Mixed Convection Boundary Layer Flow Near the Stagnation Point on a Vertical Surface in a Porous Medium. Transport in Porous Media, 2005, 61, 365-379. | 2.6 | 52 |
| 155 | The Magnetohydrodynamic Stagnation Point Flow of a Nanofluid over a Stretching/Shrinking Sheet with Suction. PLoS ONE, 2015, 10, e0117733. | 2.5 | 52 |
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