

Oronzio Manca

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223
papers

4,325
citations

33
h-index

59
g-index

312
ext. papers

4,941
ext. citations

2.9
avg, IF

5.98
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 223 | Electricity consumption forecasting in Italy using linear regression models. <i>Energy</i> , 2009 , 34, 1413-1421 | 7.9 | 347 |
| 222 | Numerical investigation of nanofluids forced convection in circular tubes. <i>Applied Thermal Engineering</i> , 2009 , 29, 3632-3642 | 5.8 | 312 |
| 221 | A numerical study of nanofluid forced convection in ribbed channels. <i>Applied Thermal Engineering</i> , 2012 , 37, 280-292 | 5.8 | 182 |
| 220 | An investigation of the thermal performance of cylindrical heat pipes using nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 376-383 | 4.9 | 179 |
| 219 | Numerical investigation on nanofluids turbulent convection heat transfer inside a circular tube. <i>International Journal of Thermal Sciences</i> , 2011 , 50, 341-349 | 4.1 | 156 |
| 218 | Thermal performance of flat-shaped heat pipes using nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 1438-1445 | 4.9 | 134 |
| 217 | Nano-PCMs for enhanced energy storage and passive cooling applications. <i>Applied Thermal Engineering</i> , 2017 , 110, 584-589 | 5.8 | 132 |
| 216 | Entropy generation analysis of turbulent convection flow of Al ₂ O ₃ -water nanofluid in a circular tube subjected to constant wall heat flux. <i>Energy Conversion and Management</i> , 2014 , 77, 306-314 | 10.6 | 98 |
| 215 | Analysis and forecasting of nonresidential electricity consumption in Romania. <i>Applied Energy</i> , 2010 , 87, 3584-3590 | 10.7 | 97 |
| 214 | Numerical study of a confined slot impinging jet with nanofluids. <i>Nanoscale Research Letters</i> , 2011 , 6, 188 | 5 | 84 |
| 213 | EFFECT OF HEATED WALL POSITION ON MIXED CONVECTION IN A CHANNEL WITH AN OPEN CAVITY. <i>Numerical Heat Transfer; Part A: Applications</i> , 2003 , 43, 259-282 | 2.3 | 83 |
| 212 | Heat transfer performance of the finned nano-enhanced phase change material system under the inclination influence. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 135, 1063-1072 | 4.9 | 81 |
| 211 | Performance analysis of turbulent convection heat transfer of Al ₂ O ₃ water-nanofluid in circular tubes at constant wall temperature. <i>Energy</i> , 2014 , 77, 403-413 | 7.9 | 75 |
| 210 | Heat transfer inside cooling system based on phase change material with alumina nanoparticles. <i>Applied Thermal Engineering</i> , 2018 , 144, 972-981 | 5.8 | 74 |
| 209 | Forced convection in micro-channels filled with porous media in local thermal non-equilibrium conditions. <i>International Journal of Thermal Sciences</i> , 2014 , 77, 206-222 | 4.1 | 66 |
| 208 | Effect of temperature and sonication time on nanofluid thermal conductivity measurements by nano-flash method. <i>Applied Thermal Engineering</i> , 2015 , 91, 181-190 | 5.8 | 64 |
| 207 | Enhancement of heat transfer and entropy generation analysis of nanofluids turbulent convection flow in square section tubes. <i>Nanoscale Research Letters</i> , 2011 , 6, 252 | 5 | 63 |

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| 206 | Numerical investigation of MHD effects on nanofluid heat transfer in a baffled U-shaped enclosure using lattice Boltzmann method. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 135, 3197-3213 | 4.1 | 55 |
| 205 | Linear Regression Models to Forecast Electricity Consumption in Italy. <i>Energy Sources, Part B: Economics, Planning and Policy</i> , 2013 , 8, 86-93 | 3.1 | 54 |
| 204 | Numerical study on latent thermal energy storage systems with aluminum foam in local thermal equilibrium. <i>Applied Thermal Engineering</i> , 2019 , 159, 113980 | 5.8 | 53 |
| 203 | Forced convection enhancement in channels with transversal ribs and nanofluids. <i>Applied Thermal Engineering</i> , 2016 , 98, 1044-1053 | 5.8 | 51 |
| 202 | Heat transfer enhancement by the chimney effect in a vertical isoflux channel. <i>International Journal of Heat and Mass Transfer</i> , 2001 , 44, 4345-4357 | 4.9 | 51 |
| 201 | NUMERICAL ANALYSIS OF PARTIALLY HEATED VERTICAL PARALLEL PLATES IN NATURAL CONVECTIVE COOLING. <i>Numerical Heat Transfer; Part A: Applications</i> , 1999 , 36, 129-151 | 2.3 | 51 |
| 200 | Optimum plate separation in vertical parallelplate channels for natural convective flows: incorporation of large spaces at the channel extremes. <i>International Journal of Heat and Mass Transfer</i> , 1997 , 40, 993-1000 | 4.9 | 49 |
| 199 | Quasi-steady-state three-dimensional temperature distribution induced by a moving circular gaussian heat source in a finite depth solid. <i>International Journal of Heat and Mass Transfer</i> , 1995 , 38, 1305-1315 | 4.9 | 45 |
| 198 | Experimental investigation and model development for thermal conductivity of Al_2O_3 -glycerol nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2017 , 85, 12-22 | 5.8 | 44 |
| 197 | Experimental Investigation of Mixed Convection in a Channel With an Open Cavity. <i>Experimental Heat Transfer</i> , 2006 , 19, 53-68 | 2.4 | 44 |
| 196 | Heat transfer in a multi-layered thermal protection system under aerodynamic heating. <i>International Journal of Thermal Sciences</i> , 2012 , 53, 56-70 | 4.1 | 43 |
| 195 | NanoRound: A benchmark study on the numerical approach in nanofluidsTsimulation. <i>International Communications in Heat and Mass Transfer</i> , 2019 , 108, 104292 | 5.8 | 40 |
| 194 | Thermal and fluid dynamic behaviors of confined laminar impinging slot jets with nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 70, 15-26 | 5.8 | 36 |
| 193 | NUMERICAL STUDY OF NATURAL CONVECTION IN VERTICAL CHANNELS WITH ADIABATIC EXTENSIONS DOWNSTREAM. <i>Numerical Heat Transfer; Part A: Applications</i> , 2005 , 47, 741-762 | 2.3 | 36 |
| 192 | Natural convection slip flow in a vertical microchannel heated at uniform heat flux. <i>International Journal of Thermal Sciences</i> , 2010 , 49, 1333-1344 | 4.1 | 34 |
| 191 | Entropy generation in natural convection in a symmetrically and uniformly heated vertical channel. <i>International Journal of Heat and Mass Transfer</i> , 2006 , 49, 3221-3228 | 4.9 | 32 |
| 190 | Heat and fluid flow resulting from the chimney effect in a symmetrically heated vertical channel with adiabatic extensions. <i>International Journal of Thermal Sciences</i> , 2002 , 41, 1101-1111 | 4.1 | 31 |
| 189 | Numerical Simulation of Water/ Al_2O_3 Nanofluid Turbulent Convection. <i>Advances in Mechanical Engineering</i> , 2010 , 2, 976254 | 1.2 | 31 |

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|-----|---|-----|----|
| 188 | Transient Natural Convection in Vertical Channels Symmetrically Heated at Uniform Heat Flux. <i>Numerical Heat Transfer; Part A: Applications</i> , 2009 , 55, 409-431 | 2.3 | 30 |
| 187 | Transient natural convection in a vertical microchannel heated at uniform heat flux. <i>International Journal of Thermal Sciences</i> , 2012 , 56, 35-47 | 4.1 | 29 |
| 186 | Thermal Design of Uniformly Heated Inclined Channels in Natural Convection with and without Radiative Effects. <i>Heat Transfer Engineering</i> , 2001 , 22, 13-28 | 1.7 | 28 |
| 185 | Numerical investigation of transient thermal and fluidynamic fields in an executive aircraft cabin. <i>Applied Thermal Engineering</i> , 2009 , 29, 3418-3425 | 5.8 | 27 |
| 184 | Thermal and fluid dynamic behavior of symmetrically heated vertical channels with auxiliary plate. <i>International Journal of Heat and Fluid Flow</i> , 2001 , 22, 424-432 | 2.4 | 27 |
| 183 | An investigation of thermal characteristics of eutectic molten salt-based nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2017 , 87, 98-104 | 5.8 | 25 |
| 182 | Experimental Investigation of Opposing Mixed Convection in a Channel with an open Cavity Below. <i>Experimental Heat Transfer</i> , 2008 , 21, 99-114 | 2.4 | 25 |
| 181 | Thermal energy storages analysis for high temperature in air solar systems. <i>Applied Thermal Engineering</i> , 2014 , 71, 130-141 | 5.8 | 22 |
| 180 | Thermal management of a symmetrically heated channelchimney system. <i>International Journal of Thermal Sciences</i> , 2009 , 48, 475-487 | 4.1 | 22 |
| 179 | Numerical investigation of air forced convection in channels with differently shaped transverse ribs. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2011 , 21, 618-639 | 4.5 | 22 |
| 178 | Numerical investigation on laminar slot-jet impinging in a confined porous medium in local thermal non-equilibrium. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 98, 484-492 | 4.9 | 22 |
| 177 | Solar energy latent thermal storage by phase change materials (PCMs) in a honeycomb system. <i>Thermal Science and Engineering Progress</i> , 2018 , 6, 410-420 | 3.6 | 21 |
| 176 | Second Law Analysis of Al ₂ O ₃ -Water Nanofluid Turbulent Forced Convection in a Circular Cross Section Tube with Constant Wall Temperature. <i>Advances in Mechanical Engineering</i> , 2013 , 5, 920278 | 1.2 | 21 |
| 175 | Radiative effects on natural convection in vertical convergent channels. <i>International Journal of Heat and Mass Transfer</i> , 2010 , 53, 3513-3524 | 4.9 | 21 |
| 174 | Nano-Phase Change Materials for Electronics Cooling Applications. <i>Journal of Heat Transfer</i> , 2017 , 139, | 1.8 | 20 |
| 173 | Numerical Analysis of Radiative Effects on Natural Convection in Vertical Convergent and Symmetrically Heated Channels. <i>Numerical Heat Transfer; Part A: Applications</i> , 2006 , 49, 369-391 | 2.3 | 20 |
| 172 | Experimental analysis of asymmetrical isoflux channel-chimney systems. <i>International Journal of Thermal Sciences</i> , 2003 , 42, 837-846 | 4.1 | 20 |
| 171 | Natural convection in vertical channels with an auxiliary plate. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2002 , 12, 716-734 | 4.5 | 20 |

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| 170 | On assessment of heat transfer deterioration of a channel with supercritical n-decane for scramjet engines cooling. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 135, 782-795 | 4.9 | 19 |
| 169 | Experimental investigation on natural convection in horizontal channels with the upper wall at uniform heat flux. <i>International Journal of Heat and Mass Transfer</i> , 2007 , 50, 1075-1086 | 4.9 | 19 |
| 168 | Numerical Investigation of Transient Natural Convection in a Horizontal Channel Heated from the Upper Wall. <i>Numerical Heat Transfer; Part A: Applications</i> , 2007 , 51, 815-842 | 2.3 | 19 |
| 167 | Thermal and fluid dynamic behaviors in symmetrical heated channel-chimney systems. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2010 , 20, 811-833 | 4.5 | 18 |
| 166 | Numerical Analysis of Water Forced Convection in Channels with Differently Shaped Transverse Ribs. <i>Journal of Applied Mathematics</i> , 2011 , 2011, 1-25 | 1.1 | 17 |
| 165 | Composite Correlations for Air Natural Convection in Tilted Channels. <i>Heat Transfer Engineering</i> , 1999 , 20, 64-72 | 1.7 | 17 |
| 164 | Experimental and Numerical Investigation on Forced Convection in Circular Tubes With Nanofluids. <i>Heat Transfer Engineering</i> , 2016 , 37, 1201-1210 | 1.7 | 16 |
| 163 | Field-Synergy and Figure-of-Merit Analysis of Two Oxide-Water-Based Nanofluids Flow in Heated Tubes. <i>Heat Transfer Engineering</i> , 2017 , 38, 909-918 | 1.7 | 16 |
| 162 | Numerical Investigation on the Steady State Natural Convection in a Horizontal Open-Ended Cavity with a Heated Upper Wall. <i>Numerical Heat Transfer; Part A: Applications</i> , 2010 , 57, 453-472 | 2.3 | 16 |
| 161 | Thermal design of symmetrically and asymmetrically heated channel-chimney systems in natural convection. <i>Applied Thermal Engineering</i> , 2003 , 23, 605-621 | 5.8 | 16 |
| 160 | Compounded natural convection enhancement in a vertical parallel-plate channel. <i>International Journal of Thermal Sciences</i> , 2008 , 47, 742-748 | 4.1 | 15 |
| 159 | Experimental Analysis of Thermal Instability in Natural Convection Between Horizontal Parallel Plates Uniformly Heated. <i>Journal of Heat Transfer</i> , 2000 , 122, 50-57 | 1.8 | 15 |
| 158 | Combined thermal and optical analysis of laser back-scribing for amorphous-silicon photovoltaic cells processing. <i>International Journal of Heat and Mass Transfer</i> , 1999 , 42, 645-656 | 4.9 | 15 |
| 157 | Numerical investigation of transient natural convection in a vertical channel-chimney system symmetrically heated at uniform heat flux. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 6077-6089 | 4.9 | 14 |
| 156 | Radiation effects on natural convection in a vertical channel with an auxiliary plate. <i>International Journal of Thermal Sciences</i> , 2015 , 97, 41-55 | 4.1 | 13 |
| 155 | Numerical Investigation of Transient Natural Convection in Air in a Convergent Vertical Channel Symmetrically Heated at Uniform Heat Flux. <i>Numerical Heat Transfer; Part A: Applications</i> , 2007 , 51, 1065-1086 | 2.3 | 13 |
| 154 | Experimental Investigation of Natural Convection in an Asymmetrically Heated Vertical Channel with an Asymmetric Chimney. <i>Journal of Heat Transfer</i> , 2005 , 127, 888-896 | 1.8 | 13 |
| 153 | Numerical Analysis on a Latent Thermal Energy Storage System with Phase Change Materials and Aluminum Foam. <i>Heat Transfer Engineering</i> , 2020 , 41, 1075-1084 | 1.7 | 13 |

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| 152 | Thermal and Fluid Dynamic Behaviors of Confined Slot Jets Impinging on an Isothermal Moving Surface with Nanofluids. <i>Energies</i> , 2019 , 12, 2074 | 3.1 | 12 |
| 151 | Thermal transient analysis of thin film multilayers heated by pulsed laser. <i>International Journal of Heat and Mass Transfer</i> , 1997 , 40, 4487-4491 | 4.9 | 12 |
| 150 | Two-Dimensional Transient Analysis of Absorbing Thin Films in Laser Treatments. <i>Journal of Heat Transfer</i> , 2000 , 122, 113-117 | 1.8 | 12 |
| 149 | Characterization and Simulation of the Heat Transfer Behaviour of Water-Based ZnO Nanofluids. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 3599-609 | 1.3 | 11 |
| 148 | Thermal Analysis of Solids at High Peclet Numbers Subjected to Moving Heat Sources. <i>Journal of Heat Transfer</i> , 1999 , 121, 182-186 | 1.8 | 11 |
| 147 | A comparison between models of thermal fields in laser and electron beam surface processing. <i>International Journal of Heat and Mass Transfer</i> , 1988 , 31, 99-106 | 4.9 | 11 |
| 146 | Phase Change Materials (PCMs) in a honeycomb system for solar energy applications. <i>International Journal of Heat and Technology</i> , 2017 , 35, S472-S477 | 2.2 | 11 |
| 145 | Evaluation of thermal and fluid dynamic performance parameters in aluminum foam compact heat exchangers. <i>Applied Thermal Engineering</i> , 2020 , 176, 115456 | 5.8 | 11 |
| 144 | Effect on Natural Convection of the Distance Between an Inclined Discretely Heated Plate and a Parallel Shroud Below. <i>Journal of Heat Transfer</i> , 2002 , 124, 441-451 | 1.8 | 10 |
| 143 | Thermal and Thermomechanical Performances of Pyramidal Core Sandwich Panels Under Aerodynamic Heating. <i>Journal of Thermal Science and Engineering Applications</i> , 2017 , 9, | 1.9 | 9 |
| 142 | Numerical investigation of an inclined rectangular cavity for ventilated roofs applications. <i>Thermal Science and Engineering Progress</i> , 2018 , 6, 426-435 | 3.6 | 9 |
| 141 | Enhancement of Heat Transfer in Partially Heated Vertical Channel Under Mixed Convection by Using Al ₂ O ₃ Nanoparticles. <i>Heat Transfer Engineering</i> , 2018 , 39, 229-240 | 1.7 | 9 |
| 140 | An evaluation on the laminar effect of buoyancy-driven supercritical hydrocarbon fuel flow and heat transfer characteristics. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 142, 118414 | 4.9 | 9 |
| 139 | Numerical analysis of radiation effects in a metallic foam by means of the radiative conductivity model. <i>Applied Thermal Engineering</i> , 2012 , 49, 14-21 | 5.8 | 9 |
| 138 | Numerical Study of Laminar Confined Impinging Slot Jets with Nanofluids. <i>Advances in Mechanical Engineering</i> , 2012 , 4, 248795 | 1.2 | 9 |
| 137 | Numerical Investigation of the Natural Convection Flows for Low-Prandtl Fluids in Vertical Parallel-Plates Channels. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2006 , 73, 96-107 | 2.7 | 9 |
| 136 | Thermal design and optimization of vertical convergent channels in natural convection. <i>Applied Thermal Engineering</i> , 2006 , 26, 170-177 | 5.8 | 9 |
| 135 | Experimental Evaluation of Fluid Dynamic and Thermal Behaviors in Compact Heat Exchanger with Aluminum Foam. <i>Energy Procedia</i> , 2016 , 101, 1103-1110 | 2.3 | 9 |

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| 134 | Forced convection in porous microchannels with viscous dissipation in local thermal non-equilibrium conditions. <i>International Communications in Heat and Mass Transfer</i> , 2016 , 76, 46-54 | 5.8 | 9 |
| 133 | Thermal cooling behaviors of lithium-ion batteries by metal foam with phase change materials. <i>Energy Procedia</i> , 2018 , 148, 1175-1182 | 2.3 | 9 |
| 132 | Numerical investigation on a Heat Exchanger in Aluminum Foam. <i>Energy Procedia</i> , 2018 , 148, 782-789 | 2.3 | 9 |
| 131 | Heat transfer analysis of rectangular porous fins in local thermal non-equilibrium model. <i>Applied Thermal Engineering</i> , 2021 , 195, 117237 | 5.8 | 9 |
| 130 | An Analysis of the Electricity Sector in Romania. <i>Energy Sources, Part B: Economics, Planning and Policy</i> , 2014 , 9, 149-155 | 3.1 | 8 |
| 129 | Turbulent mixed convection in a uniformly heated vertical channel with an assisting moving surface. <i>International Journal of Thermal Sciences</i> , 2013 , 71, 20-31 | 4.1 | 8 |
| 128 | A comparison of nanofluid thermal conductivity measurements by flash and hot disk techniques. <i>Journal of Physics: Conference Series</i> , 2014 , 547, 012046 | 0.3 | 8 |
| 127 | Numerical investigation on sensible thermal energy storage with porous media for high temperature solar systems. <i>Journal of Physics: Conference Series</i> , 2012 , 395, 012150 | 0.3 | 8 |
| 126 | Experimental investigation on natural convection in a convergent channel with uniformly heated plates. <i>International Journal of Heat and Mass Transfer</i> , 2007 , 50, 2772-2786 | 4.9 | 8 |
| 125 | Two Dimensional Transient Analysis of Temperature Distribution in a Solid Irradiated by a Gaussian Laser Source 2004 , 217 | | 8 |
| 124 | Simplified thermal models in laser and electron beam surface hardening. <i>International Journal of Heat and Mass Transfer</i> , 1990 , 33, 2511-2518 | 4.9 | 8 |
| 123 | Thermal and thermomechanical performance of actively cooled pyramidal sandwich panels. <i>International Journal of Thermal Sciences</i> , 2019 , 139, 118-128 | 4.1 | 8 |
| 122 | Numerical investigation on aluminum foam application in a tubular heat exchanger. <i>Heat and Mass Transfer</i> , 2018 , 54, 2589-2597 | 2.2 | 7 |
| 121 | Numerical investigation of convective-radiative heat transfer in a building-integrated solar chimney. <i>Advances in Building Energy Research</i> , 2015 , 9, 253-266 | 1.8 | 7 |
| 120 | Nano-PCMs for passive electronic cooling applications. <i>Journal of Physics: Conference Series</i> , 2015 , 655, 012030 | 0.3 | 7 |
| 119 | Darcy mixed convection in a fluid saturated square porous enclosure under multiple suction effect. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2011 , 21, 602-617 | 4.5 | 7 |
| 118 | Experimental Investigation of Radiation Effects on Natural Convection in Horizontal Channels Heated From Above. <i>Journal of Heat Transfer</i> , 2009 , 131, | 1.8 | 7 |
| 117 | Transient Heat Conduction in Solids Irradiated by a Moving Heat Source. <i>Defect and Diffusion Forum</i> , 2009 , 283-286, 358-363 | 0.7 | 7 |

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| 116 | Numerical Investigation on Mixed Convection in Triangular Cross-Section Ducts with Nanofluids. <i>Advances in Mechanical Engineering</i> , 2012 , 4, 139370 | 1.2 | 7 |
| 115 | Experimental Investigation on Fluid Dynamic and Thermal Behavior in Confined Impinging Round Jets in Aluminum Foam. <i>Energy Procedia</i> , 2016 , 101, 1095-1102 | 2.3 | 7 |
| 114 | 2013 , | | 7 |
| 113 | Confined Impinging Jets in Porous Media. <i>Journal of Physics: Conference Series</i> , 2016 , 745, 032142 | 0.3 | 6 |
| 112 | Numerical Study of Transient Natural Convection in Air in Vertical Divergent Channels. <i>Numerical Heat Transfer; Part A: Applications</i> , 2011 , 60, 580-603 | 2.3 | 6 |
| 111 | Instationary conjugate optical-thermal fields in thin films due to pulsed laser heating: A comparison between back and front treatment. <i>Heat and Mass Transfer</i> , 1998 , 34, 255-261 | 2.2 | 6 |
| 110 | Effect of a moving plate on heat transfer in a uniform heat flux vertical channel. <i>International Journal of Heat and Mass Transfer</i> , 2008 , 51, 3906-3912 | 4.9 | 6 |
| 109 | Thermal Behaviors of Latent Thermal Energy Storage System with PCM and Aluminum Foam. <i>International Journal of Heat and Technology</i> , 2016 , 34, S359-S364 | 2.2 | 6 |
| 108 | A Numerical Analysis on Nanofluid Mixed Convection in Triangular Cross-Sectioned Ducts Heated by a Uniform Heat Flux. <i>Advances in Mechanical Engineering</i> , 2015 , 7, 292973 | 1.2 | 5 |
| 107 | Energy savings with heat transfer enhancement techniques and heat exchangers. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 141, 1-4 | 4.1 | 5 |
| 106 | Effect of Solid Thickness on Transient Heat Conduction in Workpieces Irradiated by a Moving Heat Source. <i>Defect and Diffusion Forum</i> , 2010 , 297-301, 1445-1450 | 0.7 | 5 |
| 105 | Numerical and Experimental Investigation of the Thermal Behavior of a Complete Exhaust System 2007 , | | 5 |
| 104 | Natural convection in vertical, parallel-plate channels with appended unheated entrances. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2005 , 15, 183-204 | 4.5 | 5 |
| 103 | Transient conductive-radiative numerical analysis of multilayer thin films heated by different laser pulses. <i>International Journal of Thermal Sciences</i> , 2001 , 40, 959-968 | 4.1 | 5 |
| 102 | Solution to steady-state three-dimensional conduction for a rectangular surface heat source on a semi-infinite body. <i>International Communications in Heat and Mass Transfer</i> , 1994 , 21, 799-808 | 5.8 | 5 |
| 101 | Heat transfer enhancement of laminar impinging slot jets by nanofluids and metal foams. <i>Thermal Science and Engineering Progress</i> , 2021 , 22, 100860 | 3.6 | 5 |
| 100 | Convective heat transfer in thermally developing flow in micro-channels filled with porous media under local thermal non-equilibrium conditions. <i>Energy Procedia</i> , 2018 , 148, 1058-1065 | 2.3 | 5 |
| 99 | Transient air natural convection in asymmetrically heated vertical channels. <i>International Communications in Heat and Mass Transfer</i> , 2020 , 116, 104697 | 5.8 | 4 |

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|----|--|-----|---|
| 98 | Special Issue on Recent Advances in Fundamentals and Applications of Biomass Energy. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2018 , 140, | 2.6 | 4 |
| 97 | Numerical investigation on thermal behaviors of two-dimensional latent thermal energy storage with PCM and aluminum foam. <i>Journal of Physics: Conference Series</i> , 2017 , 796, 012031 | 0.3 | 4 |
| 96 | Mixed convection in horizontal channels partially filled with aluminium foam heated from below and with external heat losses on upper plate. <i>Journal of Physics: Conference Series</i> , 2014 , 501, 012005 | 0.3 | 4 |
| 95 | Forced convection of air through networks of square rods or cylinders embedded in microchannels. <i>Microfluidics and Nanofluidics</i> , 2014 , 16, 287-304 | 2.8 | 4 |
| 94 | Transient mixed convection in a channel with an open cavity filled with porous media. <i>Journal of Physics: Conference Series</i> , 2012 , 395, 012149 | 0.3 | 4 |
| 93 | Theoretical comparison of two-dimensional transient analysis between back and front laser treatment of thin multilayer films. <i>International Journal of Thermal Sciences</i> , 2004 , 43, 611-621 | 4.1 | 4 |
| 92 | NUMERICAL SOLUTION TO THE NATURAL CONVECTION ON VERTICAL ISOFLUX PLATES BY FULL ELLIPTIC EQUATIONS. <i>Numerical Heat Transfer; Part A: Applications</i> , 2002 , 41, 263-283 | 2.3 | 4 |
| 91 | TRANSIENT ANALYSIS OF HEAT TRANSFER IN PARALLEL SQUARED CHANNELS FOR HIGH TEMPERATURE THERMAL STORAGE. <i>Computational Thermal Sciences</i> , 2015 , 7, 477-489 | 1.9 | 4 |
| 90 | Convection in a vertical duct under the chemical reaction influence using Robin boundary conditions. <i>Thermal Science and Engineering Progress</i> , 2020 , 15, 100440 | 3.6 | 4 |
| 89 | Numerical Study of Latent Heat Thermal Energy Storage Enhancement by Nano-PCM in Aluminum Foam. <i>Inventions</i> , 2018 , 3, 76 | 2.9 | 4 |
| 88 | A pore scale analysis for determination of interfacial convective heat transfer coefficient for thin periodic porous media under mixed convection. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2017 , 00-00 | 4.5 | 3 |
| 87 | Local Thermal Non-Equilibrium Investigation on Natural Convection in Horizontal Channel Heated from Above and Partially Filled with Aluminum Foam. <i>Energy Procedia</i> , 2017 , 126, 42-49 | 2.3 | 3 |
| 86 | Numerical investigation on natural convection in horizontal channel partially filled with aluminium foam and heated from above. <i>Journal of Physics: Conference Series</i> , 2017 , 923, 012049 | 0.3 | 3 |
| 85 | Local Thermal Non-Equilibrium in Mixed Convection in Channels Partially Heated at Uniform Heat Flux Filled With a Porous Medium 2014 , | | 3 |
| 84 | Correlations for Natural Convection in Vertical Convergent Channels With Conductive Walls and Radiative Effects. <i>Heat Transfer Engineering</i> , 2011 , 32, 439-454 | 1.7 | 3 |
| 83 | Thermal behavior evaluation of ventilated roof under variable solar radiation. <i>International Journal of Heat and Technology</i> , 2016 , 34, S346-S350 | 2.2 | 3 |
| 82 | Thermal behavior evaluation of ventilated roof under summer and winter conditions. <i>International Journal of Heat and Technology</i> , 2017 , 35, S353-S360 | 2.2 | 3 |
| 81 | NUMERICAL STUDY OF AIR FORCED CONVECTION IN A CHANNEL PROVIDED WITH INCLINED RIBS. <i>Frontiers in Heat and Mass Transfer</i> , 2011 , 2, | | 3 |

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|----|---|-----|---|
| 80 | Double diffusion in a rectangular duct using metals or oxides suspended in a viscous fluid. <i>Thermal Science and Engineering Progress</i> , 2021 , 21, 100793 | 3.6 | 3 |
| 79 | Analysis of the Parameters Required to Properly Define Nanofluids for Heat Transfer Applications. <i>Fluids</i> , 2021 , 6, 65 | 1.6 | 3 |
| 78 | Numerical investigation on laminar slot-jet impinging on a surface at uniform heat flux in a channel partially filled with a porous medium. <i>Energy Procedia</i> , 2018 , 148, 790-797 | 2.3 | 3 |
| 77 | A Numerical Analysis on a Solar Chimney with an Integrated Thermal Energy Storage with Phase Change Material in Metal Foam. <i>E3S Web of Conferences</i> , 2020 , 197, 08001 | 0.5 | 2 |
| 76 | A Numerical Analysis on a Compact Heat Exchanger in Aluminum Foam. <i>Journal of Physics: Conference Series</i> , 2016 , 745, 032141 | 0.3 | 2 |
| 75 | An Experimental Study of Radiative Effects on Natural Convection in Air in Convergent Channels 2003 , 189 | | 2 |
| 74 | Numerical Simulation of Transient Natural Convection in a Channel-Chimney System 2005 , 627 | | 2 |
| 73 | Experimental Investigation on Mixed Convection in Horizontal Channels Heated Below and Partially Filled with Aluminium Foam 2014 , | | 2 |
| 72 | NUMERICAL AND EXPERIMENTAL INVESTIGATIONS ON A SOLAR CHIMNEY INTEGRATED IN A BUILDING FACADE. <i>International Journal of Heat and Technology</i> , 2015 , 33, 246-254 | 2.2 | 2 |
| 71 | Numerical investigation of sensible thermal energy storage in high temperature solar systems 2009 , | | 2 |
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