

Guizani Amenallah

List of Publications by Citations

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36
papers

930
citations

17
h-index

30
g-index

39
ext. papers

1,061
ext. citations

5.5
avg, IF

4.3
L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 36 | Moisture diffusivity and drying kinetic equation of convective drying of grapes. <i>Journal of Food Engineering</i> , 2002 , 55, 323-330 | 6 | 190 |
| 35 | Feasibility of solar absorption air conditioning in Tunisia. <i>Building and Environment</i> , 2008 , 43, 1459-1470 | 6.5 | 89 |
| 34 | Investigation of a solar cooling installation in Tunisia. <i>Applied Energy</i> , 2012 , 98, 138-148 | 10.7 | 62 |
| 33 | Experimental study of a new mixed mode solar greenhouse drying system with and without thermal energy storage for pepper. <i>Renewable Energy</i> , 2020 , 145, 1972-1984 | 8.1 | 45 |
| 32 | A numerical investigation of reactant transport in a PEM fuel cell with partially blocked gas channels. <i>Energy Conversion and Management</i> , 2014 , 80, 32-38 | 10.6 | 42 |
| 31 | Numerical study of the laminar natural convection flow around an array of two horizontal isothermal cylinders. <i>International Communications in Heat and Mass Transfer</i> , 1999 , 26, 329-338 | 5.8 | 42 |
| 30 | The influence of the heat extraction mode on the performance and stability of a mini solar pond. <i>Applied Energy</i> , 2010 , 87, 3005-3010 | 10.7 | 36 |
| 29 | Numerical study of the natural convection in cavity heated from the lower corner and cooled from the ceiling. <i>Applied Thermal Engineering</i> , 2006 , 26, 772-775 | 5.8 | 35 |
| 28 | Experimental study of the natural convection flow around an array of heated horizontal cylinders. <i>Renewable Energy</i> , 2000 , 21, 65-78 | 8.1 | 33 |
| 27 | Study of temperature and salinity profiles development of solar pond in laboratory. <i>Desalination</i> , 2005 , 183, 179-185 | 10.3 | 27 |
| 26 | Performance of the coupling of the flat plate collector and a heat pump system associated with a vertical heat exchanger for heating of the two types of greenhouses system. <i>Energy Conversion and Management</i> , 2015 , 103, 266-275 | 10.6 | 25 |
| 25 | Modeling Thermal Performance of Nano-GNRFET Transistors Using Ballistic-Diffusive Equation. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 1611-1616 | 2.9 | 22 |
| 24 | Simulation of the control of a salt gradient solar pond in the south of Tunisia. <i>Solar Energy</i> , 2003 , 75, 95-101 | 6.8 | 21 |
| 23 | The onset of convection of power-law fluids in a shallow cavity heated from below by a constant heat flux. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2013 , 196, 70-82 | 2.7 | 20 |
| 22 | Numerical study of the heat and mass transfer in inclined glazing cavity: Application to a solar distillation cell. <i>Renewable Energy</i> , 2007 , 32, 1511-1524 | 8.1 | 20 |
| 21 | Cross-flow membrane-based enthalpy exchanger balanced and unbalanced flow. <i>Energy Conversion and Management</i> , 2014 , 87, 19-28 | 10.6 | 19 |
| 20 | Numerical study of the laminar natural convection flow around horizontal isothermal cylinder. <i>Renewable Energy</i> , 1998 , 13, 77-88 | 8.1 | 18 |

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|----|---|------|----|
| 19 | Numerical Study of the Moving Boundary Problem During Melting Process in a Rectangular Cavity Heated from Below. <i>American Journal of Applied Sciences</i> , 2007 , 4, 251-256 | 0.8 | 17 |
| 18 | Numerical simulation of nanofluids for improved cooling efficiency in a 3D copper microchannel heat sink (MCHS). <i>Physics and Chemistry of Liquids</i> , 2018 , 56, 311-331 | 1.5 | 15 |
| 17 | Numerical investigation of heat and mass transfer in partially blocked membrane based heat exchanger: Effects of obstacles forms. <i>Applied Thermal Engineering</i> , 2018 , 130, 211-220 | 5.8 | 15 |
| 16 | Investigation of heat transport across Ge/Si interface using an enhanced ballistic-diffusive model. <i>Superlattices and Microstructures</i> , 2018 , 124, 218-230 | 2.8 | 15 |
| 15 | Numerical and experimental study of a closed loop for ground heat exchanger coupled with heat pump system and a solar collector for heating a glass greenhouse in north of Tunisia. <i>International Journal of Refrigeration</i> , 2017 , 76, 328-341 | 3.8 | 13 |
| 14 | Optical study of solar tower power plants. <i>Journal of Physics: Conference Series</i> , 2015 , 596, 012018 | 0.3 | 13 |
| 13 | Simulation of the transient behaviour of a salt gradient solar pond in Tunisia. <i>Renewable Energy</i> , 1998 , 14, 69-76 | 8.1 | 13 |
| 12 | Numerical study of the natural convection flow resulting from the combined buoyancy effects of thermal and mass diffusion in a cavity with differentially heated side walls. <i>Desalination</i> , 2005 , 182, 143-150 | 10.3 | 13 |
| 11 | Interfacial heat transport across multilayer nanofilms in ballistic-diffusive regime. <i>European Physical Journal Plus</i> , 2020 , 135, 1 | 3.1 | 11 |
| 10 | Numerical investigation of membrane based heat exchanger with partially blocked channels. <i>Applied Thermal Engineering</i> , 2016 , 104, 203-211 | 5.8 | 11 |
| 9 | Experimental investigation and numerical validation of total heat exchanger and membrane phenomena. <i>Energy and Buildings</i> , 2016 , 133, 131-140 | 7 | 9 |
| 8 | Performance investigation of desiccant liquid air membrane energy exchanger: Air and lithium chloride effects. <i>International Journal of Refrigeration</i> , 2017 , 80, 145-157 | 3.8 | 7 |
| 7 | Estimation of thermophysical properties of lightweight mortars made of wood shavings and expanded polystyrene beads using a hybrid algorithm. <i>Energy and Buildings</i> , 2016 , 118, 133-141 | 7 | 7 |
| 6 | Numerical simulation of heat transfer enhancement for natural convection in a cubical enclosure filled with Al ₂ O ₃ /water and Ag/water nanofluids. <i>Physics and Chemistry of Liquids</i> , 2016 , 54, 703-716 | 1.5 | 7 |
| 5 | Analysis of an integrated collector storage system with vacuum glazing and compound parabolic concentrator. <i>Applied Thermal Engineering</i> , 2020 , 169, 114958 | 5.8 | 5 |
| 4 | The convective drying of grape seeds: Effect of shrinkage on heat and mass transfer. <i>Journal of Food Process Engineering</i> , 2018 , 41, e12614 | 2.4 | 5 |
| 3 | Convective hydromagnetic instabilities of a power-law liquid saturating a porous medium: Flux conditions. <i>Physics of Fluids</i> , 2018 , 30, 013101 | 4.4 | 4 |
| 2 | Thermal optimization of solar dish collector for indirect vapor generation. <i>International Journal of Energy Research</i> , 2019 , 43, 7240 | 4.5 | 3 |

- 1 A novel mathematical approach for the optical efficiency optimization of solar tower power plant technology. *International Journal of Energy Research*, 4.5 1