

# Prem Gunnasegaran

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8057015/publications.pdf>

Version: 2024-02-01

24  
papers

1,247  
citations

758635

12  
h-index

752256

20  
g-index

24  
all docs

24  
docs citations

24  
times ranked

815  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Numerical simulation of heat transfer enhancement in wavy microchannel heat sink. International Communications in Heat and Mass Transfer, 2011, 38, 63-68.   | 2.9 | 257       |
| 2  | The effect of geometrical parameters on heat transfer characteristics of microchannels heat sink with different shapes. International Communications in Heat and Mass Transfer, 2010, 37, 1078-1086.   | 2.9 | 250       |
| 3  | Influence of channel shape on the thermal and hydraulic performance of microchannel heat sink. International Communications in Heat and Mass Transfer, 2011, 38, 474-480.  | 2.9 | 155       |
| 4  | Heat transfer in rectangular microchannels heat sink using nanofluids. International Communications in Heat and Mass Transfer, 2010, 37, 1496-1503.  | 2.9 | 119       |
| 5  | The impact of various nanofluid types on triangular microchannels heat sink cooling performance. International Communications in Heat and Mass Transfer, 2011, 38, 767-773.  | 2.9 | 95        |
| 6  | Influence of various base nanofluids and substrate materials on heat transfer in trapezoidal microchannel heat sinks. International Communications in Heat and Mass Transfer, 2011, 38, 194-201.   | 2.9 | 78        |
| 7  | Numerical and experimental investigations of hybrid nanofluids on pulsating heat pipe performance. International Journal of Heat and Mass Transfer, 2020, 146, 118887.   | 2.5 | 78        |
| 8  | Thermophysical properties of Al <sub>2</sub> O <sub>3</sub> -CuO hybrid nanofluid at different nanoparticle mixture ratio: An experimental approach. Journal of Molecular Liquids, 2020, 313, 113458.  | 2.3 | 50        |
| 9  | Influence of nanofluid on heat transfer in a loop heat pipe. International Communications in Heat and Mass Transfer, 2013, 47, 82-91.  | 2.9 | 48        |
| 10 | Influence of the oblique fin arrangement on the fluid flow and thermal performance of liquid cold plate. Case Studies in Thermal Engineering, 2018, 12, 717-727.   | 2.8 | 25        |
| 11 | Recent Advances on Thermally Conductive Adhesive in Electronic Packaging: A Review. Polymers, 2021, 13, 3337.  | 2.0 | 22        |
| 12 | Optimization of SiO <sub>2</sub> nanoparticle mass concentration and heat input on a loop heat pipe. Case Studies in Thermal Engineering, 2015, 6, 238-250.  | 2.8 | 21        |
| 13 | Heat Transfer in a Loop Heat Pipe using Diamond-H <sub>2</sub> O Nanofluid. Heat Transfer Engineering, 2018, 39, 1117-1131.  | 1.2 | 12        |
| 14 | A new method of acquiring prerequisites of recirculation and vortex flow in sudden expansion solar water collector using vortex generator to augment heat transfer. International Journal of Thermal Sciences, 2020, 153, 106346.  | 2.6 | 12        |
| 15 | Heat transfer enhancement with nanofluids: A review of recent applications and experiments. International Journal of Heat and Technology, 2018, 36, 1350-1361.   | 0.3 | 6         |
| 16 | A new method of enhancing heat transfer in sudden expansion channel using vortex generators with toe-out and toe-in configurations by acquiring prerequisites of recirculation and secondary vortex flow. Journal of Mechanical Science and Technology, 2019, 33, 3913-3925. | 0.7 | 5         |
| 17 | Influence of low concentration of diamond water nanofluid in loop heat pipe. International Journal of Heat and Technology, 2017, 35, 539-548.  | 0.3 | 5         |
| 18 | Heat Transfer in a Loop Heat Pipe Using Fe <sub>2</sub> NiO <sub>4</sub> -H <sub>2</sub> O Nanofluid. MATEC Web of Conferences, 2017, 109, 05001.  | 0.1 | 3         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Influence of Various Nanofluid Types on Wavy Microchannels Heat Sink Cooling Performance. Applied Mechanics and Materials, 0, 420, 118-122.  | 0.2 | 2         |
| 20 | Double-Layer Micro Porous Media Burner from Lean to Rich Fuel Mixture: Analysis of Entropy Generation and Exergy Efficiency. Entropy, 2021, 23, 1663.  | 1.1 | 2         |
| 21 | Experimental Analysis and FEM Simulation of Novel Finned Loop Heat Pipe. Advanced Materials Research, 0, 925, 481-485.   | 0.3 | 1         |
| 22 | Intelligent monitoring system of unburned carbon of fly ash for coal fired power plant boiler. MATEC Web of Conferences, 2017, 131, 02003.   | 0.1 | 1         |
| 23 | Development and implementation of Intelligent Soot Blowing Optimization System for TNB Janamanjung. MATEC Web of Conferences, 2017, 131, 01006.  | 0.1 | 0         |
| 24 | Preliminary study to determine the maximum settling velocity and model parameter of Cu nanoparticle by settling method. IOP Conference Series: Materials Science and Engineering, 2020, 785, 012026. | 0.3 | 0         |