

Jason Stafford

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

428
citations

687363

13
h-index

794594

19
g-index

52
all docs

52
docs citations

52
times ranked

429
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | An Experimental Study on the Design of Miniature Heat Sinks for Forced Convection Air Cooling. <i>Journal of Heat Transfer</i> , 2009, 131, . | 2.1 | 34 |
| 2 | A statistical analysis for time-averaged turbulent and fluctuating flow fields using Particle Image Velocimetry. <i>Flow Measurement and Instrumentation</i> , 2012, 26, 1-9. | 2.0 | 33 |
| 3 | Towards scale-up of graphene production via nonoxidizing liquid exfoliation methods. <i>AIChE Journal</i> , 2018, 64, 3246-3276. | 3.6 | 32 |
| 4 | Characterizing convective heat transfer using infrared thermography and the heated-thin-foil technique. <i>Measurement Science and Technology</i> , 2009, 20, 105401. | 2.6 | 23 |
| 5 | Visualization of three-dimensional structures shed by an oscillating beam. <i>Journal of Fluids and Structures</i> , 2017, 70, 450-463. | 3.4 | 23 |
| 6 | Flat plate heat transfer with impinging axial fan flows. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 5629-5638. | 4.8 | 21 |
| 7 | Implementing Superhydrophobic Surfaces within Various Condensation Environments: A Review. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001442. | 3.7 | 21 |
| 8 | On the hydrodynamic characterization of a passive Shape Memory Alloy valve. <i>Applied Thermal Engineering</i> , 2015, 75, 731-737. | 6.0 | 17 |
| 9 | Configurations for single-scale cylinder pairs in natural convection. <i>International Journal of Thermal Sciences</i> , 2014, 84, 62-74. | 4.9 | 16 |
| 10 | Local heat transfer performance and exit flow characteristics of a miniature axial fan. <i>International Journal of Heat and Fluid Flow</i> , 2010, 31, 952-960. | 2.4 | 15 |
| 11 | Development and validation of a compact thermal model for an aircraft compartment. <i>Applied Thermal Engineering</i> , 2013, 61, 65-74. | 6.0 | 15 |
| 12 | A Novel Approach to Low Profile Heat Sink Design. <i>Journal of Heat Transfer</i> , 2010, 132, . | 2.1 | 13 |
| 13 | A comparison between the hydrodynamic characteristics of 3D-printed polymer and etched silicon microchannels. <i>Microfluidics and Nanofluidics</i> , 2015, 19, 385-394. | 2.2 | 13 |
| 14 | The influence of the stagnation zone on the fluid dynamics at the nozzle exit of a confined and submerged impinging jet. <i>Experiments in Fluids</i> , 2016, 57, 1. | 2.4 | 13 |
| 15 | The characterization of a low-profile channel-confined jet for targeted hot-spot cooling in microfluidic applications. <i>International Journal of Heat and Mass Transfer</i> , 2016, 101, 620-628. | 4.8 | 11 |
| 16 | The thermal and hydrodynamic behaviour of confined, normally impinging laminar slot jets. <i>International Journal of Heat and Mass Transfer</i> , 2018, 123, 40-53. | 4.8 | 11 |
| 17 | The effect of global cross flows on the flow field and local heat transfer performance of miniature centrifugal fans. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 1970-1985. | 4.8 | 10 |
| 18 | High fidelity phase locked PIV measurements analysing the flow fields surrounding an oscillating piezoelectric fan. <i>Journal of Physics: Conference Series</i> , 2014, 525, 012013. | 0.4 | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Real-time monitoring and hydrodynamic scaling of shear exfoliated graphene. 2D Materials, 2021, 8, 025029. | 4.4 | 10 |
| 20 | Development of Compact Thermalâ€“Fluid Models at the Electronic Equipment Level. Journal of Thermal Science and Engineering Applications, 2012, 4, . | 1.5 | 9 |
| 21 | A study on the flow field and local heat transfer performance due to geometric scaling of centrifugal fans. International Journal of Heat and Fluid Flow, 2011, 32, 1160-1172. | 2.4 | 7 |
| 22 | Investigation of Multiple Miniature Axial Fan Cooling Solutions and Thermal Modeling Approaches. Journal of Electronic Packaging, Transactions of the ASME, 2014, 136, . | 1.8 | 7 |
| 23 | A dimensional comparison between embedded 3D-printed and silicon microchannels. Journal of Physics: Conference Series, 2014, 525, 012009. | 0.4 | 7 |
| 24 | Simulation of interacting elastic sheets in shear flow: Insights into buckling, sliding, and reassembly of graphene nanosheets in sheared liquids. Physics of Fluids, 2022, 34, . | 4.0 | 7 |
| 25 | Aerodynamic Performance of a Vibrating Piezoelectric Blade Under Varied Operational and Confinement States. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2017, 7, 751-761. | 2.5 | 6 |
| 26 | Challenges surrounding nanosheets and their application to solar-driven photocatalytic water treatment. Materials Advances, 2022, 3, 4103-4131. | 5.4 | 5 |
| 27 | The heat transfer performance in a square channel downstream of a representative shape memory alloy structure for microfluidics applications. , 2015, , . | | 4 |
| 28 | Passive Control and Enhancement of Low Reynolds Number Slot Jets Through the Use of Tabs and Chevrons. Journal of Heat Transfer, 2018, 140, . | 2.1 | 4 |
| 29 | A Compact Modeling Approach to Enhance Collaborative Design of Thermal-Fluid Systems. Journal of Electronic Packaging, Transactions of the ASME, 2014, 136, . | 1.8 | 3 |
| 30 | Principle-based design of distributed multiphase segmented flow. International Journal of Heat and Mass Transfer, 2016, 100, 508-521. | 4.8 | 3 |
| 31 | Cooling in Poor Air Quality Environmentsâ€“Impact of Fan Operation on Particle Deposition. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2021, 11, 1206-1213. | 2.5 | 3 |
| 32 | Thermal Performance Characteristics of Integrated Cooling Solutions Consisting of Multiple Miniature Fans. Journal of Physics: Conference Series, 2012, 395, 012029. | 0.4 | 2 |
| 33 | Hydrodynamic characterization of a passive shape memory alloy valve. Journal of Physics: Conference Series, 2014, 525, 012010. | 0.4 | 2 |
| 34 | The hydrodynamic and heat transfer behavior downstream of a channel obstruction in the laminar flow regime. International Journal of Heat and Mass Transfer, 2016, 101, 1042-1052. | 4.8 | 2 |
| 35 | A visualization of the flow and heat transfer from an oblique impinging jet generated in a square miniature channel. Journal of Visualization, 2016, 19, 11-14. | 1.8 | 2 |
| 36 | Vehicle non-exhaust emissions â€“ Revealing the pathways from source to environmental exposure. Environmental Pollution, 2021, 268, 115654. | 7.5 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Deposition of particle pollution in turbulent forced-air cooling. <i>Aerosol Science and Technology</i> , 2021, 55, 486-500. | 3.1 | 2 |
| 38 | Foam flows in turbulent liquid exfoliation of layered materials and implications for graphene production and inline characterisation. <i>Chemical Engineering Research and Design</i> , 2022, 177, 245-254. | 5.6 | 2 |
| 39 | An Experimental and Theoretical Study of Finned and Finless Heat Sinks for Low Profile Applications. , 2009, , . | | 1 |
| 40 | Fluid structures generated from a low Reynolds number miniature radial fan. <i>Journal of Visualization</i> , 2010, 13, 275-276. | 1.8 | 1 |
| 41 | Finless Heat Sinks, High Performance and Low Cost for Low Profile Cooling Applications. <i>Journal of Thermal Science and Engineering Applications</i> , 2013, 5, . | 1.5 | 1 |
| 42 | Aerodynamic performance of a vibrating piezoelectric fan under varied operational conditions. <i>Journal of Physics: Conference Series</i> , 2014, 525, 012025. | 0.4 | 1 |
| 43 | Experimental characterization of novel microdiffuser elements. <i>Journal of Physics: Conference Series</i> , 2014, 525, 012008. | 0.4 | 1 |
| 44 | Rarefied Conditions in the Convective-Diffusive Regimes of a Disc in Natural Convection. , 2013, , . | | 1 |
| 45 | Heat Transfer and Fluid Mechanics from a Piezoelectric Fan Operating in Its Second Resonant Frequency Mode. , 2014, , . | | 1 |
| 46 | Development of Compact Thermal-Fluid Models at the Electronic Equipment Level. , 2011, , . | | 0 |
| 47 | The Evolution of Surface Convection Patterns Downstream of an Axial Fan with Tangentially-Mounted Hub Supports. <i>Journal of Heat Transfer</i> , 2012, 134, . | 2.1 | 0 |
| 48 | Mechanical Characterisation of the NiTi Shape Memory Alloy for Microfluidic Valve Applications. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1581, 1. | 0.1 | 0 |
| 49 | The Influence of Confinement on the Hydrodynamic Characteristics of a Cylindrical Pillar Within a Microchannel. , 2015, , . | | 0 |
| 50 | Numerical simulations of a falling film on the inner surface of a rotating cylinder. <i>Physical Review E</i> , 2020, 102, 043106. | 2.1 | 0 |