# John R Thome

List of Publications by Year
in descending order



| 176 | 8,984 | 34105 | 45317 |
|---|---|---|---|
| papers | citations | 52 | 90 |
| | | h-index | g-index |

| 179 | 179 | 179 | 2813 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Oneâ€•and twoâ€•step semiâ€Lagrangian integrators for arbitrary Lagrangianâ€“Eulerianâ€finite element twoâ€phase flow simulations. International Journal for Numerical Methods in Fluids, 2022, 94, 632-654. | 1.6 | 2 |
| 2 | Air-Cooled Loop Thermosyphon Cooling System for High Heat Load CPUsâ€”Part II: Experimental Results and Validation. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2021, 11, 1687-1694. | 2.5 | 6 |
| 3 | Flow boiling heat transfer and two-phase flow phenomena of CO2 in macro- and micro-channel evaporators: Fundamentals, applications and engineering design. Applied Thermal Engineering, 2021, 195, 117070. | 6.0 | 26 |
| 4 | Simulation and experimental validation of pulsating heat pipes. Applied Thermal Engineering, 2021, 196, 117271. | 6.0 | 6 |
| 5 | Falling film boiling of refrigerants over nanostructured and roughened tubes: Heat transfer, dryout and critical heat flux. International Journal of Heat and Mass Transfer, 2020, 163, 120452. | 4.8 | 16 |
| 6 | Pool boiling of refrigerants over nanostructured and roughened tubes. International Journal of Heat and Mass Transfer, 2020, 162, 120387. | 4.8 | 15 |
| 7 | General Thermosyphon Simulation Code for Electronics Cooling Applications. , 2020, , . | | 3 |
| 8 | Implementation of Passive Two-Phase Cooling to an Entire Server Rack. , 2020, , . | | 3 |
| 9 | Experimental Analysis of the Condenser Design in a Thermosiphon System for Cooling of Telecommunication Electronics. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2020, 10, 963-973. | 2.5 | 7 |
| 10 | Fundamental Issues, Technology Development, and Challenges of Boiling Heat Transfer, Critical Heat Flux, and Two-Phase Flow Phenomena with Nanofluids. Heat Transfer Engineering, 2019, 40, 1301-1336. | 1.9 | 32 |
| 11 | Numerical Simulations of Pulsating Heat Pipes, Part 2: Comparison to Experimental Data. , 2019, , . | | 1 |
| 12 | Falling film boiling and pool boiling on plain circular tubes: Influence of surface roughness, surface material and saturation temperature on heat transfer and dryout. Experimental Thermal and Fluid Science, 2019, 109, 109870. | 2.7 | 27 |
| 13 | Two-Phase Thermosyphon Cooling of Datacenters. , 2018, , 157-219. | | 2 |
| 14 | Role of a Liquid Accumulator in a Passive Two-Phase Liquid Cooling System for Electronics: Experimental Analysis. Journal of Electronic Packaging, Transactions of the ASME, 2018, 140, . | 1.8 | 3 |
| 15 | Numerical analysis of slug flow boiling in square microchannels. International Journal of Heat and Mass Transfer, 2018, 123, 928-944. | 4.8 | 67 |
| 16 | Interfaceâ€fitted moving mesh method for axisymmetric twoâ€phase flow in microchannels. International Journal for Numerical Methods in Fluids, 2018, 86, 201-217. | 1.6 | 9 |
| 17 | Two-Phase Flow Simulations Within Plate Heat Exchangers. , 2018, , . | | 1 |
| 18 | 1D Mechanistic Model and Simulation Code for Closed-Loop Pulsating Heat Pipes. , 2018, , 141-208. | | 2 |

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| 19 | A Flexible Coupled Level Set and Volume of Fluid (flexCLV) method to simulate microscale two-phase flow in non-uniform and unstructured meshes. International Journal of Multiphase Flow, 2017, 91, 276-295. | 3.4 | 50 |
| 20 | Flow Boiling in Microchannels. Advances in Heat Transfer, 2017, 49, 157-224. | 0.9 | 6 |
| 21 | Experimental evaluation of the thermal performances of a thermosyphon cooling system rejecting heat by natural and forced convection. Applied Thermal Engineering, 2017, 127, 1404-1415. | 6.0 | 24 |
| 22 | Two-phase mini-thermosyphon electronics cooling: Dynamic modeling, experimental validation and application to 2U servers. Applied Thermal Engineering, 2017, 110, 481-494. | 6.0 | 74 |
| 23 | Pressure drop prediction in annular two-phase flow in macroscale tubes and channels. International Journal of Multiphase Flow, 2017, 89, 321-330. | 3.4 | 25 |
| 24 | An experimental study on flow boiling pressure drop in multi-microchannel evaporators with different refrigerants. Experimental Thermal and Fluid Science, 2017, 80, 391-407. | 2.7 | 34 |
| 25 | High resolution infrared measurements of single-phase flow of R245fa and R236fa within a compact plate heat exchanger, Part 1: Experimental setup and pressure drop results. Applied Thermal Engineering, 2016, 101, 545-554. | 6.0 | 14 |
| 26 | High resolution local heat transfer and pressure drop infrared measurements of two-phase flow of R245fa within a compact plate heat exchanger. International Journal of Heat and Mass Transfer, 2016, 103, 791-806. | 4.8 | 14 |
| 27 | Local measurements and a new flow pattern based model for subcooled and saturated flow boiling heat transfer in multi-microchannel evaporators. International Journal of Heat and Mass Transfer, 2016, 103, 701-714. | 4.8 | 28 |
| 28 | A study of gravitational effects on single elongated vapor bubbles. International Journal of Heat and Mass Transfer, 2016, 99, 904-917. | 4.8 | 8 |
| 29 | Dynamic Numerical Microchannel Evaporator Model to Investigate Parallel Channel Instabilities. Journal of Electronic Packaging, Transactions of the ASME, 2016, 138, . | 1.8 | 5 |
| 30 | Computational Study of Saturated Flow Boiling Within a Microchannel in the Slug Flow Regime. Journal of Heat Transfer, 2016, 138, . | 2.1 | 36 |
| 31 | Operational regimes in a closed loop pulsating heat pipe. International Journal of Thermal Sciences, 2016, 102, 78-88. | 4.9 | 50 |
| 32 | Boiling heat transfer and two-phase pressure drops within compact plate heat exchangers: Experiments and flow visualizations. International Journal of Heat and Mass Transfer, 2016, 94, 239-253. | 4.8 | 35 |
| 33 | Unified Modeling Suite for Two-Phase Flow, Convective Boiling, and Condensation in Macro- and Microchannels. Heat Transfer Engineering, 2016, 37, 1148-1157. | 1.9 | 13 |
| 34 | Development of interconnected silicon micro-evaporators for the on-detector electronics cooling of the future ITS detector in the ALICE experiment at LHC. Applied Thermal Engineering, 2016, 93, 1367-1376. | 6.0 | 9 |
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| 36 | Flow boiling and frictional pressure gradients in plate heat exchangers. Part 1: Review and experimental database. International Journal of Refrigeration, 2016, 61, 166-184. | 3.4 | 79 |

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| 37 | Novel Dynamic Numerical Microchannel Evaporator Model to Investigate Parallel Channel Instabilities. , 2015, , . | | 2 |
| 38 | PASSIVE TWO-PHASE THERMOSYPHON LOOP COOLING SYSTEM FOR HIGH-HEAT-FLUX SERVERS. Interfacial Phenomena and Heat Transfer, 2015, 3, 369-391. | 0.8 | 5 |
| 39 | A Numerical Study of Pulsating Heat Pipe Performance. , 2015, , . | | 4 |
| 40 | Time-strip visualization and thermo-hydrodynamics in a Closed Loop Pulsating Heat Pipe. Applied Thermal Engineering, 2015, 78, 364-372. | 6.0 | 44 |
| 41 | An indirect criterion for the laminar to turbulent flow transition in shear-driven annular liquid films. International Journal of Multiphase Flow, 2015, 75, 26-38. | 3.4 | 23 |
| 42 | Two-Phase Flow Pattern Maps for Macrochannels. , 2015, , 5-45. | | 2 |
| 43 | Two-Phase Flow Pattern Maps for Microchannels. , 2015, , 47-84. | | 3 |
| 44 | Void Fraction. , 2015, , 85-112. | | 1 |
| 45 | Entrained Liquid Fraction in Annular Two-Phase Flow. , 2015, , 113-142. | | 2 |
| 46 | Two-Phase Pressure Drop. , 2015, , 143-176. | | 5 |
| 47 | Forced Convective Boiling. , 2015, , 177-218. | | 0 |
| 48 | Critical Heat Flux in Convective Boiling. , 2015, , 219-239. | | 0 |
| 49 | Unified Modeling Suite for Annular Flow. , 2015, , 241-258. | | 0 |
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| 51 | Dynamic Modeling of On-Chip Two-Phase Cooling System with Multiple Micro-Evaporators in Parallel Flow. , 2015, , 179-227. | | 0 |
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| 53 | Pool Boiling on Plain and Enhanced Surfaces. , 2015, , 53-100. | | 0 |
| 54 | Flooded Evaporators Using Smooth and Enhanced Tubes. , 2015, , 101-144. | | 0 |

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| 56 | Flow Boiling Heat Transfer in Multiport Tubes. , 2015, , 395-444. | | 0 |
| 57 | Pragmatical Numerical Simulation of Condensation and Evaporation in Microchannels. , 2015, , 177-199. | | 0 |
| 58 | Flow Pattern-Based Intube Condensation Heat Transfer Model for Horizontal Tubes. , 2015, , 201-230. | | 0 |
| 59 | Two-Phase Flows in U-bends. , 2015, , 141-182. | | 0 |
| 60 | Understanding the self-sustained oscillating two-phase flow motion in a closed loop pulsating heat pipe. Energy, 2015, 90, 889-899. | 8.8 | 47 |
| 61 | TWO-PHASE FLOW AND BOILING OF R245FA IN A 1 MM PRESSING DEPTH PLATE HEAT EXCHANGER - PART I: ADIABATIC PRESSURE DROP. Interfacial Phenomena and Heat Transfer, 2014, 2, 325-342. | 0.8 | 18 |
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| 70 | Two-phase flow pressure drops in U-tubes: Towards more accurate measurement methods andÂprediction models. International Journal of Refrigeration, 2013, 36, 492-503. | 3.4 | 6 |
| 71 | Thermal Management of Ultra Intense Hot Spots With Two-Phase Multi-Microchannels and Embedded Thermoelectric Cooling. , 2013, , . | | 3 |
| 72 | 3D Stacks of Microprocessors and Memories With Backside Two-Phase Multi-Microchannel Cooler. , 2013, , . | | 2 |

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| 82 | Experimental Adiabatic Two-Phase Pressure Drops of R134a, R236fa and R245fa in Small Horizontal Circular Channels. , 2011, , . | | 1 |
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