Marc Hodes

List of Publications by Year in descending order

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MARC HODES

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Reversible Wettingâ^'Dewetting Transitions on Electrically Tunable Superhydrophobic Nanostructured Surfaces. Langmuir, 2007, 23, 9128-9133. | 3.5 | 251 |
| 2 | Salt precipitation and scale control in supercritical water oxidation—Part A: fundamentals and research. Journal of Supercritical Fluids, 2004, 29, 265-288. | 3.2 | 198 |
| 3 | Salt precipitation and scale control in supercritical water oxidation—part B: commercial/full-scale applications. Journal of Supercritical Fluids, 2004, 29, 289-312. | 3.2 | 164 |
| 4 | On the Potential of Galinstan-Based Minichannel and Minigap Cooling. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2014, 4, 46-56. | 2.5 | 71 |
| 5 | Analysis of evaporating mist flow for enhanced convective heat transfer. International Journal of Heat and Mass Transfer, 2010, 53, 3346-3356. | 4.8 | 61 |
| 6 | Isoflux Nusselt Number and Slip Length Formulae for Superhydrophobic Microchannels. Journal of Heat Transfer, 2014, 136, . | 2.1 | 49 |
| 7 | Optimal Pellet Geometries for Thermoelectric Power Generation. IEEE Transactions on Components and Packaging Technologies, 2010, 33, 307-318. | 1.3 | 47 |
| 8 | Salt solubility and deposition in high temperature and pressure aqueous solutions. AICHE Journal, 2004, 50, 2038-2049. | 3.6 | 37 |
| 9 | Electrically tunable superhydrophobic nanostructured surfaces. Bell Labs Technical Journal, 2005, 10, 161-170. | 0.7 | 32 |
| 10 | Water-Based Microchannel and Galinstan-Based Minichannel Cooling Beyond 1 kW/cm <inline-formula> <tex-math notation="LaTeX">\$^{2}\$ </tex-math></inline-formula> Heat Flux. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2015, 5, 762-770. | 2.5 | 32 |
| 11 | Analysis of Galinstan-Based Microgap Cooling Enhancement Using Structured Surfaces. Journal of Heat Transfer, 2015, 137, . | 2.1 | 31 |
| 12 | Nusselt numbers for Poiseuille flow over isoflux parallel ridges accounting for meniscusÂcurvature. Journal of Fluid Mechanics, 2017, 811, 315-349. | 3.4 | 27 |
| 13 | Effect of Evaporation and Condensation at Menisci on Apparent Thermal Slip. Journal of Heat Transfer, 2015, 137, . | 2.1 | 19 |
| 14 | Effect of thermocapillary stress on slip length for a channel textured with parallel ridges. Journal of Fluid Mechanics, 2017, 814, 301-324. | 3.4 | 18 |
| 15 | Optimal Design of Thermoelectric Generators Embedded in a Thermal Resistance Network. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2014, 4, 612-621. | 2.5 | 15 |
| 16 | Effects of slowly varying meniscus curvature on internal flows in the Cassie state. Journal of Fluid Mechanics, 2019, 872, 272-307. | 3.4 | 15 |
| 17 | Determination of Electrical Contact Resistivity in Thermoelectric Modules (TEMs) From Module-Level Measurements. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2012, 2, 668-676. | 2.5 | 14 |
| 18 | Optimal Design of Thermoelectric Refrigerators Embedded in a Thermal Resistance Network. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2012, 2, 483-495. | 2.5 | 13 |

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|----|--|-----|-----------|
| 19 | Nusselt Numbers for Poiseuille Flow Over Isoflux Parallel Ridges for Arbitrary Meniscus Curvature. Journal of Heat Transfer, 2018, 140, . | 2.1 | 13 |
| 20 | Friction Factors and Nusselt Numbers in Microchannels With Superhydrophobic Walls. , 2006, , 599. | | 11 |
| 21 | Cooling potential of galinstan-based minichannel heat sinks. , 2012, , . | | 11 |
| 22 | A Natural Convection Model for the Rate of Salt Deposition From Near-Supercritical, Aqueous Solutions. Journal of Heat Transfer, 2003, 125, 1027-1037. | 2.1 | 10 |
| 23 | Thermocapillary stress and meniscus curvature effects on slip lengths in ridged microchannels. Journal of Fluid Mechanics, 2020, 894, . | 3.4 | 10 |
| 24 | Energy savings achievable through liquid cooling: A rack level case study. , 2010, , . | | 9 |
| 25 | Thermoelectric Module-Variable Conductance Heat Pipe Assemblies for Reduced Power Temperature Control. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2012, 2, 474-482. | 2.5 | 9 |
| 26 | On the Potential for Homogeneous Nucleation of Salt From Aqueous Solution in a Natural Convection Boundary Layer. Journal of Heat Transfer, 2002, 124, 930-937. | 2.1 | 8 |
| 27 | Effect of Meniscus Curvature on Apparent Thermal Slip. Journal of Heat Transfer, 2016, 138, . | 2.1 | 8 |
| 28 | Nusselt Numbers for Thermally Developing Couette Flow With Hydrodynamic and Thermal Slip. Journal of Heat Transfer, 2014, 136, . | 2.1 | 7 |
| 29 | One-Dimensional Analysis of Gas Diffusion-Induced Cassie to Wenzel State Transition. Journal of Heat Transfer, 2017, 139, . | 2.1 | 6 |
| 30 | Enhanced cooling in a sealed cabinet using an evaporating-condensing dielectric mist. Intersociety Conference on Thermal and Thermomechanical Phenomena in Electronic Systems, 2008, , . | 0.0 | 5 |
| 31 | Thermo-fluid characteristics of a minichannel heat sink cooled with liquid metal. , 2013, , . | | 4 |
| 32 | Solution of the Graetz–Nusselt Problem for Liquid Flow Over Isothermal Parallel Ridges. Journal of Heat Transfer, 2017, 139, . | 2.1 | 4 |
| 33 | Numerical Analysis of Mist-Cooled High Power Components in Cabinets. , 2009, , . | | 4 |
| 34 | Optimized Thermoelectric Module-Heat Sink Assemblies for Precision Temperature Control. Journal of Electronic Packaging, Transactions of the ASME, 2012, 134, . | 1.8 | 3 |
| 35 | Reduced Power Precision Temperature Control Using Variable Conductance Heat Pipes. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2013, 3, 2048-2058. | 2.5 | 3 |
| 36 | Longitudinal-Fin Heat Sink Optimization Capturing Conjugate Effects Under Fully Developed Conditions. Journal of Thermal Science and Engineering Applications, 2016, 8, . | 1.5 | 3 |

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|----|--|-----|-----------|
| 37 | High heat flux, single-phase microchannel cooling. , 2014, , . | | 2 |
| 38 | Solution of the Extended Graetz–Nusselt Problem for Liquid Flow Over Isothermal Parallel Ridges. Journal of Heat Transfer, 2018, 140, . | 2.1 | 2 |
| 39 | Spreading and Contact Resistance Formulae Capturing Boundary Curvature and Contact Distribution Effects. Journal of Heat Transfer, 2018, 140, . | 2.1 | 2 |
| 40 | Simultaneous Optimization of an Array of Heat Sinks. Journal of Electronic Packaging, Transactions of the ASME, 2019, 141, . | 1.8 | 2 |
| 41 | Effect of Surface Curvature on Contact Resistance Between Cylinders. Journal of Heat Transfer, 2019, 141, . | 2.1 | 2 |
| 42 | Two-Dimensional Numerical Analysis of Gas Diffusion-Induced Cassie to Wenzel State Transition. Journal of Heat Transfer, 2021, 143, . | 2.1 | 2 |
| 43 | Salt Precipitation and Scale Control in Supercritical Water Oxidation — Part B: Commercial/Full-Scale Applications. ChemInform, 2004, 35, no. | 0.0 | 1 |
| 44 | Efficient Cooling of Multiple Components in a Shielded Circuit Pack. , 2005, , 71. | | 1 |
| 45 | Thermal management: Enabling enhanced functionality and reduced carbon footprint. Bell Labs Technical Journal, 2009, 14, 7-19. | 0.7 | 1 |
| 46 | Capillary-Driven Evaporation-Enhanced Heat Sink. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2013, 3, 1683-1692. | 2.5 | 1 |
| 47 | Efficient Cooling of Multiple Components in a Shielded Circuit Pack. Journal of Electronic Packaging, Transactions of the ASME, 2007, 129, 216-218. | 1.8 | 0 |
| 48 | Characterization and Optimization of Fluid Flow in a High Biot Number System. Materials Research Society Symposia Proceedings, 2011, 1306, 1. | 0.1 | 0 |
| 49 | Algorithm for Simultaneous Optimization of an Array of Heat Sinks. , 2018, , . | | 0 |
| 50 | Conjugate Nusselt Numbers for Simultaneously Developing Flow Through Rectangular Ducts. Journal of Heat Transfer, 2019, 141, . | 2.1 | 0 |