

JOURNAL OF ENHANCED HEAT TRANSFER

CONTENTS VOLUME 22, 2015

Page Range of Issues

Issue 1: 1-88; Issue 2: 89-175; Issue 3: 177-265; Issue 4: 267-363;
Issue 5: 365-455; Issue 6: 457 -539

ISSUE 1

Investigation of Heat Transfer Characteristics of MgMnNi/DIW-Based Nanofluids for Quenching in Industrial Applications <i>S.R. Chitra, S. Sendhilnathan, & S. Suresh</i>	1
Experimental Study of Pressure Drop and Heat Transfer in a U-Bend Channel with Various Guide Vanes and Ribs <i>S. Ciminà, C. Wang, L. Wang, A. Niro, & B. Sundén</i>	29
Flow Boiling Heat Transfer in R-600a Flows inside an Annular Tube with Metallic Porous Inserts <i>M.-Y. Wen, K.-J. Jang, & C.-Y. Ho</i>	47
An Experimental Investigation of the Air-Side Performance of Fin-and-Tube Heat Exchangers having Slit Fins <i>N.-H. Kim & H. Cho</i>	67

ISSUE 2

Personal Reflections on Fifty Years of Condensation Heat Transfer Research <i>J.W. Rose</i>	89
A Case Study of using Enhanced Interconnect Channel Geometries on Heat and Mass Transfer Characteristics of Anode-Supported Planar SOFC <i>Y.N. Magar & R.M. Manglik</i>	121
Computational Investigation of Dimple Effects on Heat Transfer and Friction Factor in a Lamilloy Cooling Structure <i>L. Luo, C. Wang, L. Wang, B. Sundén, & S. Wang</i>	147

ISSUE 3

Effect of Aspect Ratio on Evaporation Heat Transfer and Pressure Drop of R-410A in Flattened Microfin Tubes <i>N.-H. Kim</i>	177
Maximum Surface Heat Flux during Jet Impingement Quenching of Vertical Hot Surface <i>C. Agarwal, R. Kumar, A. Gupta, & B. Chatterjee</i>	199
The Effect of Transverse Tube Pitch on the Thermal-Hydrodynamic Performance of a Circular Tube-Plate-Fin Heat Exchanger with Fin-Mounted Vortex Generators <i>W.-L. Hu, L.-B. Wang, & Y. Guan</i>	221
Nucleate Pool Boiling Heat Transfer from a Flat-Plate Grooved Surface <i>S. Alangar</i>	247

ISSUE 4

Composite Thermal Annealed Pyrolytic Graphite Heat Spreaders Produced with Field-Assisted Sintering Technology <i>A. Rape, K. Gott, J. Singh, & A. Kulkarni</i>	267
Subcooled Flow Boiling Heat Transfer Characteristics of R134a in Horizontal Helically Coiled Tubes <i>L. Kong, J. Han, C. Chen, K. Xing, G. Lei, & R. Li</i>	281
A Numerical Study of Convective Heat Transfer Enhancement with Jet Impingement Cooling using Porous Obstacles <i>C.S. Kumar & A. Pattamatta</i>	303
Temperature Field and Heat Transfer in Low Reynolds Flows Inside Trapezoidal-Profiled Corrugated-Plate Channels <i>J. Cernecky, J. Koniar, L. Ohanka, & Z. Brodnianska</i>	329
Single-Phase Pressure Drop and Heat Transfer Measurements of Turbulent Flow Inside Helically Dimpled Tubes <i>N-H. Kim</i>	345

ISSUE 5

Role of Vortical Structures on the Forced Convective Heat Transfer in Oscillation-Controlled Coaxial-Pipe Heat Exchanger <i>D. Takagi, S. Takeuchi, & T. Kajishima</i>	365
Non-Uniform Condensation of Refrigerant R134a in Mini-Channel Multiport Tubes: Two-Phase Pressure Drop and Heat Transfer Coefficient <i>A. Lopez-Belchi, F. Vera-Garcia, & J.R. Garcia-Cascales</i>	391
On the Simulation of Diaphragm Oscillation and Modeling Methods for an Impinging Synthetic Jet <i>N. Madanchi, F. Kowsary, & F. Bazdidi-Tehrani</i>	417
Heat Transfer in Plate Heat Exchangers in the Transition Flow Regime <i>I.S. Gusew</i>	441

ISSUE 6

Laminar Forced Convection Heat Transfer of Yield-Stress Shear-Thinning Liquids in Sinusoidal Corrugated-Plate Channels of Plate-and-Frame Heat Exchangers <i>H.M. Metwally & R.M. Manglik</i>	457
Investigation of Oscillatory Flow in an Oscillating Heat Pipe with Random Initial Conditions <i>Z. Li, M. Yang, Y. Zhang, & S. Montgomery-Smith</i>	485
Condensation Heat Transfer and Pressure Drop of R-410A in Internally Enhanced Flat Aluminum Multi-Port Tubes <i>N-H. Kim</i>	503
Overall Heat Loss from both Sides of a Tilted Unglazed Solar Collector under Indoor Conditions using Flow Calorimetry and Thermography <i>O. Montoya-Marquez & J.J. Flores-Prieto</i>	527

JOURNAL OF ENHANCED HEAT TRANSFER

AUTHOR INDEX VOLUME 22, 2015

Page Range of Issues

**Issue 1: 1-88; Issue 2: 89-175; Issue 3: 177-265; Issue 4: 267-363;
Issue 5: 365-455; Issue 6: 457 -539**

Agarwal, C., 199	Kajishima, T., 365	Niro, A., 29
Alangar, S., 247	Kim, N.H. ., 67, 177, 345,	Ohanka, L., 329
Bazdidi-Tehrani, F., 417	503	Pattamatta, A., 303
Brodnianska, Z., 329	Kong, L., 281	Rape, A., 267
Cernecky, J., 329	Koniar, 3J., 29	Rose, J.W., 89
Chatterjee, B., 199	Kowsary, F.,417	Sendhilnathan, S., 1
Chen,C., 281	Kulkarni, A.K., 267	Singh, J., 267
Chitra, S.R., 1	Kumar, C.S., 303	Sunden, B., 29, 147
Cho, H., 67	Kumar, R., 199	Suresh, S., 1
Cimina, S., 29	Lei, G., 281	Takagi, D., 365
Flores-Prieto, J.J., 527	Li, R., 281	Takeuchi, S., 365
Garcia-Cascales, J.R., 391	Li, Z., 485	Vera-Garcia, F., 391
Gott, K., 267	Lopez-Belchi, A., 391	Wang, C., 29, 147
Guan, Y., 221	Luo, L., 147	Wang, L., 29, 147
Gupta, A., 199	Madanchi, N., 417	Wang, L.B., 221
Gusew, S., 441	Magar, Y.N., 121	Wang, S., 147
Han, J., 281	Manglik, R.M., 121, 457	Wen, M.Y., 47
Ho, C.Y., 47	Metwally, H.M., 457	Xing, K.,281
Hu, W.L., 221	Montgomery-Smith, S., 485	Yang, M., 485
Jang, K.J., 47	Montoya-Marquez, O., 527	Zhang, Y., 485

JOURNAL OF ENHANCED HEAT TRANSFER

SUBJECT INDEX VOLUME 22, 2015

Page Range of Issues

Issue 1: 1-88; Issue 2: 89-175; Issue 3: 177-265; Issue 4: 267-363;
Issue 5: 365-455; Issue 6: 457 -539

- | | | |
|--|--|--|
| active technique, 365 | heat-loss coefficient, 527 | rough surface, 29, 247 |
| additives for liquids, 1 | Herschel-Bulkley fluid, 457 | single-phase convection, 1,
67, 303, 329, 527 |
| annular tube, 47 | holographic interferometry,
329 | single-phase flow convection,
345, 365, 441 |
| bend duct geometry, 29 | hydraulic diameter, 503 | single-phase flow, 29, 121,
147, 221, 457 |
| Bingham plastic, 457 | impinging jet, 417 | steam condenser, 345 |
| coiled tube, 281 | inclined surface, 527 | structured rough surface, 345 |
| compact heat exchanger, 221,
391 | internal microfins, 177 | structured roughness, 29, 147 |
| compound techniques, 303 | internal roughness, 345 | suction and injection, 121 |
| computational modelling, 365 | jet impingement, 147, 199,
303 | surface oscillation, 485 |
| condensation, 391 | liquid crystal thermography,
29 | surface tension device, 485 |
| convection, 457 | Marangoni condensation, 89 | swirl flow, 329, 441 |
| density, 1 | microchannels, 89 | swirl-flow devices, 121, 457 |
| dimple depth-to-diameter
ratio, 147 | microfins, 503 | synthetic jet, 417 |
| displaced enhancement
devices, 47, 221, 303 | modeling methods, 417 | theoretical modeling, 485 |
| double-pipe heat exchanger,
365 | non-Newtonian flow, 457 | thermal conductivity, 1 |
| dropwise condensation, 893 | numerical analysis, 221 | thermal management, 267 |
| dynamic mesh, 417 | numerical modeling, 391 | thermal-hydraulic correlation,
281 |
| electronic cooling, 247, 267 | numerical simulation, 417 | thermophysical properties, 1 |
| enhanced conductivity, 267 | oscillating heat pipe (OHP),
485 | tilted surface, 527 |
| experimental heat transfer,
247, 281 | passive enhancement, 457 | transient cooling, 199 |
| experimentation and error
analysis, 441 | peak heat flux, 199 | treated surfaces, 89 |
| experimentation, 329, 391 | perforated copper inserts, 47 | turbulent flow, 417 |
| forced convection boiling, 47,
199 | plate-and-frame heat
exchanger, 441 | two-phase convection, 89,
247, 281 |
| fuel cells, 121 | porous media, 121 | two-phase flow, 47, 177, 199,
503 |
| gas-turbine cooling, 147 | predictive correlations, 67 | two-phase flow convection,
391 |
| grooved surface, 503 | pressure drop, 67 | viscoplasticity, 457 |
| guide vanes, 29 | radiation heat transfer, 527 | volumetric specific heat, 1 |
| heat transfer coefficient, 67 | refrigerant evaporator, 177 | wavy-plate channel, 457 |