



Peles Yoav

University of Central Florida

Google Scholar

Citation indices	All	Since 2012
Citations	4772	3218
h-index	38	30
i10-index	87	73

Title 1–20

Cited by Year

Forced convective heat transfer across a pin fin micro heat sink

Y Peles, A Koşar, C Mishra, CJ Kuo, B Schneider

International Journal of Heat and Mass Transfer 48 (17), 3615-3627

311 2005

Nanostructured copper interfaces for enhanced boiling

C Li, Z Wang, PI Wang, Y Peles, N Koratkar, GP Peterson

small 4 (8), 1084-1088

291 2008

Suppression of boiling flow oscillations in parallel microchannels by inlet restrictors

A Koşar, CJ Kuo, Y Peles

Journal of Heat Transfer 128 (3), 251-260

198 2006

Laminar flow across a bank of low aspect ratio micro pin fins

A Koşar, C Mishra, Y Peles

Journal of Fluids Engineering 127 (3), 419-430

188 2005

Boiling heat transfer in rectangular microchannels with reentrant cavities

A Koşar, CJ Kuo, Y Peles

International Journal of Heat and Mass Transfer 48 (23), 4867-4886

183 2005

Thermal-hydraulic performance of MEMS-based pin fin heat sink

A Koşar, Y Peles

Journal of heat transfer 128 (2), 121-131

180 2006

Microfabrication of a high pressure bipropellant rocket engine

AP London, AA Ayon, AH Epstein, SM Spearing, T Harrison, Y Peles, ...

Sensors and Actuators A: Physical 92 (1), 351-357

150 2001

Local measurement of flow boiling in structured surface microchannels

CJ Kuo, Y Peles

International journal of heat and mass transfer 50 (23), 4513-4526

123 2007

Title	1–20	Cited by	Year
Flow boiling instabilities in microchannels and means for mitigation by reentrant cavities	CJ Kuo, Y Peles Journal of Heat Transfer 130 (7), 072402	117	2008
Heat transfer in microchannels—2012 status and research needs	SG Kandlikar, S Colin, Y Peles, S Garimella, RF Pease, JJ Brandner, ... Journal of Heat Transfer 135 (9), 091001	107	2013
Ledinegg instability in microchannels	T Zhang, T Tong, JY Chang, Y Peles, R Prasher, MK Jensen, JT Wen, ... International Journal of Heat and Mass Transfer 52 (25), 5661-5674	100	2009
Convective flow of refrigerant (R-123) across a bank of micro pin fins	A Koşar, Y Peles International Journal of Heat and Mass Transfer 49 (17), 3142-3155	95	2006
Multi-objective thermal design optimization and comparative analysis of electronics cooling technologies	S Ndao, Y Peles, MK Jensen International Journal of Heat and Mass Transfer 52 (19), 4317-4326	94	2009
Cavitation in flow through a micro-orifice inside a silicon microchannel	C Mishra, Y Peles Physics of fluids 17 (1), 013601	93	2005
Superhydrophobic graphene foams	E Singh, Z Chen, F Houshmand, W Ren, Y Peles, HM Cheng, N Koratkar small 9 (1), 75-80	90	2013
Boiling heat transfer in a hydrofoil-based micro pin fin heat sink	A Koşar, Y Peles International Journal of Heat and Mass Transfer 50 (5), 1018-1034	87	2007
Flow boiling of water in a circular staggered micro-pin fin heat sink	S Krishnamurthy, Y Peles International Journal of Heat and Mass Transfer 51 (5), 1349-1364	85	2008
Reduced pressure boiling heat transfer in rectangular microchannels with interconnected reentrant cavities	A Koşar, CJ Kuo, Y Peles Journal of Heat Transfer 127 (10), 1106-1114	77	2005

Title	1–20	Cited by	Year
Pressure effects on flow boiling instabilities in parallel microchannels			
CJ Kuo, Y Peles		72	2009
International Journal of Heat and Mass Transfer 52 (1), 271-280			
Critical heat flux of R-123 in silicon-based microchannels			
A Koşar, Y Peles		70	2007
Journal of Heat Transfer 129 (7), 844-851			

Dates and citation counts are estimated and are determined automatically by a computer program.