Igor Marchuk

List of Publications by Year
in descending order

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26	424	759233 12	713466 21
papers	citations	h-index	g-index

26	26	26	177
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Locally heated shear-driven liquid films in microchannels and minichannels. International Journal of Heat and Fluid Flow, 2007, 28, 103-112.	2.4	99
2	Calculation of the heat flux near the liquidâ€“gasâ€“solid contact line. Applied Mathematical Modelling, 2016, 40, 1029-1037.	4.2	49
3	Thermocapillary deformation of a locally heated liquid film moving under the action of a gas flow. Technical Physics Letters, 2004, 30, 418-421.	0.7	30
4	Experimental Study of Laminar Convective Condensation of Pure Vapor Inside an Inclined Circular Tube. Microgravity Science and Technology, 2011, 23, 439-445.	1.4	30
5	COALESCENCE OF A DROPLET CLUSTER SUSPENDED OVER A LOCALLY HEATED LIQUID LAYER. Interfacial Phenomena and Heat Transfer, 2013, 1, 51-62.	0.8	28
6	Determination of surface tension and contact angle by the axisymmetric bubble and droplet shape analysis. Thermophysics and Aeromechanics, 2015, 22, 297-303.	0.5	27
7	Heat Flux at the Surface of Metal Foil Heater under Evaporating Sessile Droplets. International Journal of Aerospace Engineering, 2015, 2015, 1-5.	0.9	22
8	Thermocapillary deformation of a thin locally heated horizontal liquid layer. Journal of Engineering Thermophysics, 2009, 18, 227-237.	1.4	21
9	Vapor condensation on nonisothermal curvilinear fins. Technical Physics Letters, 2006, 32, 388-391.	0.7	16
10	THEORETICAL AND EXPERIMENTAL STUDY OF CONVECTIVE CONDENSATION INSIDE A CIRCULAR TUBE. Interfacial Phenomena and Heat Transfer, 2013, 1, 153-171.	0.8	16
11	Thermocapillary deformation of a horizontal liquid layer under flash local surface heating. Journal of Engineering Thermophysics, 2015, 24, 381-385.	1.4	16
12	Vapor absorption by immobile solution layer. International Journal of Heat and Mass Transfer, 2004, 47, 1525-1533.	4.8	15
13	Condensation on curvilinear fins (effect of groove flooding): EMERALD experiment of ESA. Microgravity Science and Technology, 2007, 19, 121-124.	1.4	11
14	Model of filmwise vapor condensation on curved surfaces. Doklady Physics, 2016, 61, 19-23.	0.7	10
15	Capillary waves at microdroplet coalescence with a liquid layer. Thermophysics and Aeromechanics, 2015, 22, 515-518.	0.5	8
16	Experimental Study of Film Condensation of FC-72 Vapour on Disk-Shaped Fin. Microgravity Science and Technology, 2011, 23, 65-74.	1.4	7
17	Vapor Condensation on Curvilinear Disk-Shaped Fin at Microgravity. Microgravity Science and Technology, 2008, 20, 165-169.	1.4	6
18	Film Wise Vapor Condensation on Curvilinear Surfaces. , 2015, , 133-176.		4

#	Article	IF	Citations
19	Study of vapor condensation on curvilinear fins under influence of capillary forces and gravity. Journal of Engineering Thermophysics, 2016, 25, 520-526.	1.4	3
20	Numerical modelling of thermocapillary deformation in a locally heated thin horizontal volatile liquid layer. MATEC Web of Conferences, 2016, 84, 00003.	0.2	2
21	Numerical Modeling of Thermocapillary Deformation and Film Breakdown in a Locally Heated Thin Horizontal Volatile Liquid Layer. MATEC Web of Conferences, 2016, 72, 01007.	0.2	2
22	Modeling of vapor condensation in a longitudinally finned minichannel. Journal of Engineering Thermophysics, 2016, 25, 67-84.	1.4	1
23	Fin Shape Design for Stable Film-Wise Vapor Condensation in Microgravity. Microgravity Science and Technology, 2022, 34, 1.	1.4	1
24	Vapor condensation on curvilinear fins with condensate suction from the interfin space. MATEC Web of Conferences, 2016, 84, 00023.	0.2	0
25	Surface tension determination using data of the evolution of thermocapillary deformations in a locally heated liquid layer. MATEC Web of Conferences, 2017, 115, 08008.	0.2	0
26	INVESTIGATION OF BEHAVIOR OF THE DYNAMIC CONTACT ANGLE IN A PROBLEM OF CONVECTIVE FLOWS. Eurasian Journal of Mathematical and Computer Applications, 2017, 5, 27-42.	0.4	0