

# Vladimir S Serdyukov

## List of Publications by Year in descending order

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27  
papers

432  
citations

623734

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h-index

713466

21  
g-index

27  
all docs

27  
docs citations

27  
times ranked

198  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structured capillary-porous coatings for enhancement of heat transfer at pool boiling. Applied Thermal Engineering, 2018, 133, 532-542.	6.0	63
2	An experimental study of vapor bubbles dynamics at water and ethanol pool boiling at low and high heat fluxes. International Journal of Heat and Mass Transfer, 2018, 126, 297-311.	4.8	51
3	Nanotechnologies for thermophysics: Heat transfer and crisis phenomena at boiling. Nanotechnologies in Russia, 2016, 11, 696-715.	0.7	44
4	Laser texturing of silicon surface to enhance nucleate pool boiling heat transfer. Applied Thermal Engineering, 2021, 194, 117102.	6.0	35
5	Effect of subatmospheric pressures on heat transfer, vapor bubbles and dry spots evolution during water boiling. Experimental Thermal and Fluid Science, 2020, 112, 109974.	2.7	28
6	ENHANCEMENT OF BOILING HEAT TRANSFER ON HYDROPHOBIC FLUOROPOLYMER COATINGS. Interfacial Phenomena and Heat Transfer, 2018, 6, 269-276.	0.8	22
7	Biphilic surface to improve and stabilize pool boiling in vacuum. Applied Thermal Engineering, 2022, 209, 118298.	6.0	22
8	Study on Local Heat Transfer in the Vicinity of the Contact Line under Vapor Bubbles at Pool Boiling. High Temperature, 2018, 56, 546-552.	1.0	20
9	Effect of a low-thermal-conductive coating on the dynamics of rewetting of overheated plate by falling liquid film. High Temperature, 2016, 54, 370-376.	1.0	19
10	High-speed visualization and image processing of sub-atmospheric water boiling on a transparent heater. Journal of Visualization, 2020, 23, 873-884.	1.8	19
11	Dynamics of a superheated surface rewetting with a falling liquid film. High Temperature, 2014, 52, 861-868.	1.0	18
12	Heat Transfer and Fouling Rate at Boiling on Superhydrophobic Surface with TiO <sub>2</sub> Nanotube-Array Structure. Journal of Engineering Thermophysics, 2019, 28, 163-176.	1.4	17
13	Nucleation and bubble evolution in subcooled liquid under pulse heating. International Journal of Heat and Mass Transfer, 2021, 169, 120911.	4.8	15
14	Application of high-speed IR thermography to study boiling of liquids. Instruments and Experimental Techniques, 2016, 59, 615-620.	0.5	14
15	Boiling at subatmospheric pressures on hydrophobic surface: Bubble dynamics and heat transfer. International Journal of Thermal Sciences, 2022, 173, 107423.	4.9	9
16	The influence of the microtexture, corrugation inclination angle, and perforation of corrugated surfaces on the character of liquid spreading. Technical Physics Letters, 2015, 41, 774-777.	0.7	8
17	The Simultaneous Analysis of Droplets' Impacts and Heat Transfer during Water Spray Cooling Using a Transparent Heater. Water (Switzerland), 2021, 13, 2730.	2.7	6
18	Characteristics of Boiling Heat Transfer on Hydrophobic Surface. EPJ Web of Conferences, 2019, 196, 00054.	0.3	4

#	ARTICLE	IF	CITATIONS
19	Study of thermal behavior of microlayer under vapor bubble at liquid boiling. EPJ Web of Conferences, 2017, 159, 00051.	0.3	3
20	Investigation of contact line dynamics under a vapor bubble at boiling on the transparent heater. Thermophysics and Aeromechanics, 2018, 25, 67-73.	0.5	3
21	Characterization of Multi-Jet Cooling Using High-Speed Visualization and IR Thermography. Journal of Engineering Thermophysics, 2019, 28, 489-498.	1.4	3
22	Pattern recognition for bubbly flows with vapor or gas-liquid interfaces using U-Net architecture. , 2020, , .		3
23	Features of vapor bubbles evolution at liquid boiling at subatmospheric pressures. Thermophysics and Aeromechanics, 2019, 26, 623-626.	0.5	2
24	Subcooled water boiling on a microheater under conditions of pulsed heat release. Thermophysics and Aeromechanics, 2020, 27, 783-786.	0.5	2
25	Experimental study of multi-scale heat transfer characteristics at pool boiling. Journal of Physics: Conference Series, 2017, 785, 012007.	0.4	1
26	Explosive Vaporization of Ethanol on Microheater during Pulse Heating. Heat Transfer Engineering, 2023, 44, 502-511.	1.9	1
27	Arrays of vertically aligned multi-walled carbon nanotubes grown on silicon and copper substrates by thermal decomposition of ferrocene-toluene aerosol. Journal of Physics: Conference Series, 2018, 1105, 012141.	0.4	0