

Sergey Sapozhnikov

List of Publications by Year in descending order

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45
papers

267
citations

1040056

9
h-index

996975

15
g-index

45
all docs

45
docs citations

45
times ranked

163
citing authors

#	ARTICLE	IF	CITATIONS
1	Gradient heat flux sensors for high temperature environments. <i>Sensors and Actuators A: Physical</i> , 2012, 176, 1-9.	4.1	62
2	Determination of the entropy change profile of a cylindrical lithium-ion battery by heat flux measurements. <i>Journal of Power Sources</i> , 2016, 330, 61-69.	7.8	41
3	Title is missing!. <i>High Temperature</i> , 2002, 40, 620-625.	1.0	15
4	Bismuth-Based Gradient Heat-Flux Sensors in Thermal Experiment. <i>High Temperature</i> , 2004, 42, 629-638.	1.0	14
5	Hydrodynamics and heat transfer of yawed circular cylinder. <i>International Journal of Heat and Mass Transfer</i> , 2017, 115, 333-339.	4.8	13
6	Heat flux measurements on the inner walls of a shock tube. <i>Technical Physics Letters</i> , 2004, 30, 76-77.	0.7	10
7	The calibration of gradient heat flux sensors. <i>Measurement Techniques</i> , 2012, 54, 1155-1159.	0.6	10
8	Using anisotropic heat flux sensors in aerodynamic experiments. <i>Technical Physics Letters</i> , 2009, 35, 214-216.	0.7	9
9	The Study of Heat Flux Measurement for Heat Transfer during Condensation at Pipe Surfaces. <i>Technical Physics Letters</i> , 2019, 45, 321-323.	0.7	9
10	Numerical analysis of the influence of the physical viscosity on the vortex heat transfer in laminar and turbulent flows around a heated plate with a shallow spherical hole. <i>Journal of Engineering Physics and Thermophysics</i> , 2009, 82, 847-859.	0.6	8
11	An Experimental Investigation of the Film Boiling of Subcooled Water by Gradient Heat Flux Measurement. <i>Technical Physics Letters</i> , 2019, 45, 253-255.	0.7	8
12	Measurements of nonstationary heat fluxes by gradient sensors based on single-crystalline anisotropic bismuth. <i>Technical Physics</i> , 2004, 49, 920-926.	0.7	7
13	An Investigation into Film Condensation of Saturated Steam on Tube Surfaces by a Gradient Heatmetry. <i>Thermal Engineering (English Translation of Teploenergetika)</i> , 2021, 68, 794-801.	0.9	7
14	Cylindrical Li-Ion Battery State of Health Evaluation by Differential Heat Analysis During Calendar Ageing. <i>Journal of the Electrochemical Society</i> , 2019, 166, A2896-A2902.	2.9	6
15	Application of a Heat Flux Sensor in Wind Power Electronics. <i>Energies</i> , 2016, 9, 456.	3.1	5
16	Measurement of Essentially Nonstationary Heat Fluxes by a Bismuth-Based Gradient Sensor. <i>Technical Physics</i> , 2021, 66, 229-234.	0.7	5
17	Visualization of a Flow in a Spherical Dimple Built in the Lower Wall of the Rectangular-Section Channel of a Water Tunnel and Numerical Identification of the Vortex-Jet Structures in It. <i>Journal of Engineering Physics and Thermophysics</i> , 2015, 88, 452-470.	0.6	4
18	Gradient heat flux measurement as monitoring method for the diesel engine. <i>Journal of Physics: Conference Series</i> , 2017, 891, 012096.	0.4	4

#	ARTICLE	IF	CITATIONS
19	Tasks and Solutions in Gradient Heat Flux Measurement. Russian Aeronautics, 2019, 62, 89-95.	0.2	4
20	Thermal measurements at the body surface in a supersonic nitrogen flow. Technical Physics Letters, 2006, 32, 621-623.	0.7	3
21	Application of the gradient heat flux sensor to study pulsed processes in a shock tube. Technical Physics, 2008, 53, 1634-1635.	0.7	3
22	The diffusional bond in cast bimetals. Metal Science and Heat Treatment, 1982, 24, 143-144.	0.6	2
23	Experimental determination of circular fin effectiveness. Journal of Physics: Conference Series, 2019, 1382, 012036.	0.4	2
24	Natural and Mixed Convection Heat Transfer of a Cooling Air in Fissile Material and Spent Fuel Storage Facilities. Heat Transfer Research, 2005, 36, 295-309.	1.6	2
25	Testing and Using of Gradient Heat Flux Sensors. Heat Transfer Research, 2008, 39, 625-626.	1.6	2
26	Use of bimetallic parts in hydraulic drive pumps. Metal Science and Heat Treatment, 1982, 24, 734-737.	0.6	1
27	Structure and properties of a steel/white-cast-iron bimetal produced by method of carbonizing the steel melt. Metal Science and Heat Treatment, 1985, 27, 864-866.	0.6	1
28	Influence of a Magnetic Field on the Thermal Process near an Aerodynamic Object. , 2009, , .		1
29	Methodological possibilities for the solution of new tasks for "Thermophysics of Power Units" Department of SPbPU. Journal of Physics: Conference Series, 2017, 891, 012371.	0.4	1
30	Comprehensive study of flow and heat transfer at the surface of circular cooling fin. Journal of Physics: Conference Series, 2017, 891, 012095.	0.4	1
31	Gradient heat flux measurement while researching of saturated water steam condensation. Journal of Physics: Conference Series, 2017, 891, 012128.	0.4	1
32	Heat flux based method for determination of thermal parameters of the cylindrical Li-ion battery: Uncertainty analysis. , 2017, , .		1
33	Investigation of flow and heat transfer at the surface of a single circular cooling fin. International Journal of Engineering and Technology(UAE), 2018, 7, 33.	0.3	1
34	Gradient heat flux measurement in study of unsteady water film boiling at the surface of the sphere. Journal of Physics: Conference Series, 2019, 1382, 012119.	0.4	1
35	The combination of PIV and heat flux measurement in study of flow and heat transfer near a circular finned cylinder. Journal of Physics: Conference Series, 2019, 1421, 012064.	0.4	1
36	Gradient Heat Flux Sensors for Thermophysical Measurements. Heat Transfer Research, 2008, 39, 423-428.	1.6	1

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37	Searching of the optimum tilt of the pipe at condensation by using gradient heatmetry. Journal of Physics: Conference Series, 2020, 1683, 022028.	0.4	1
38	Thermocyclic treatment of the bimetal steel-wear-resistant iron blanks. Metal Science and Heat Treatment, 1983, 25, 251-253.	0.6	0
39	Calculation of the production conditions in "pendulum" thermal cycling treatment of steel parts. Metal Science and Heat Treatment, 1986, 28, 317-319.	0.6	0
40	Gradient-type sensors for heat flux measurements high temperatures. Technical Physics Letters, 2008, 34, 815-817.	0.7	0
41	Simultaneous particle image velocimetry and gradient heat flux measurement. , 2015, , .		0
42	Gradient heat flux measurement in study of heat transfer during subcooled water boiling at sphere. Journal of Physics: Conference Series, 2020, 1565, 012017.	0.4	0
43	Heat Flux Measurement in Boiler Furnaces: Methods, Sensors, First Results. Heat Transfer Research, 2011, 42, 501-522.	1.6	0
44	Development and Application of Gradient Heat Flux Measurement for Industrial Boiler Furnaces. , 2013, , 747-750.		0
45	Heat transfer enhancement during condensation of water steam on inclined pipe. Journal of Physics: Conference Series, 2021, 2039, 012031.	0.4	0