

Gennady Ziskind

List of Publications by Year in descending order

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46
papers

2,972
citations

279701

23
h-index

254106

43
g-index

47
all docs

47
docs citations

47
times ranked

1896
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical and experimental study of melting in a spherical shell. International Journal of Heat and Mass Transfer, 2007, 50, 1790-1804.	2.5	391
2	Melting in a vertical cylindrical tube: Numerical investigation and comparison with experiments. International Journal of Heat and Mass Transfer, 2010, 53, 4082-4091.	2.5	343
3	Numerical investigation of a PCM-based heat sink with internal fins. International Journal of Heat and Mass Transfer, 2005, 48, 3689-3706.	2.5	328
4	A uniform temperature heat sink for cooling of electronic devices. International Journal of Heat and Mass Transfer, 2002, 45, 3275-3286.	2.5	236
5	Resuspension of particulates from surfaces to turbulent flows—Review and analysis. Journal of Aerosol Science, 1995, 26, 613-644.	1.8	186
6	Numerical investigation of a PCM-based heat sink with internal fins: Constant heat flux. International Journal of Heat and Mass Transfer, 2008, 51, 1488-1493.	2.5	184
7	Close-contact melting in vertical annular enclosures with a non-isothermal base: Theoretical modeling and application to thermal storage. International Journal of Heat and Mass Transfer, 2014, 72, 114-127.	2.5	104
8	Effect of wind direction on greenhouse ventilation rate, airflow patterns and temperature distributions. Biosystems Engineering, 2008, 101, 351-369.	1.9	89
9	Experimental demonstration, modeling and analysis of a novel latent-heat thermal energy storage unit with a helical fin. International Journal of Heat and Mass Transfer, 2017, 110, 692-709.	2.5	88
10	PARTICLE RESUSPENSION FROM SURFACES: REVISITED AND RE-EVALUATED. Reviews in Chemical Engineering, 2006, 22, 1-123.	2.3	78
11	Deep-bed filtration model with multistage deposition kinetics. Chemical Engineering Journal, 2010, 163, 78-85.	6.6	77
12	Close-contact melting in a horizontal cylindrical enclosure with longitudinal plate fins: Demonstration, modeling and application to thermal storage. International Journal of Heat and Mass Transfer, 2015, 86, 465-477.	2.5	75
13	Adhesion moment model for estimating particle detachment from a surface. Journal of Aerosol Science, 1997, 28, 623-634.	1.8	73
14	Experimental and numerical investigation of a hybrid PCM—air heat sink. Applied Thermal Engineering, 2013, 59, 142-152.	3.0	67
15	Ventilation by natural convection of a one-story building. Energy and Buildings, 2002, 34, 91-101.	3.1	61
16	Analysis and optimization of melting temperature span for a multiple-PCM latent heat thermal energy storage unit. Applied Thermal Engineering, 2016, 93, 315-329.	3.0	60
17	Novel enthalpy method for modeling of PCM melting accompanied by sinking of the solid phase. International Journal of Heat and Mass Transfer, 2017, 112, 568-586.	2.5	60
18	Kinetic Model of Particle Resuspension By Drag Force. Physical Review Letters, 1997, 78, 551-554.	2.9	55

#	ARTICLE	IF	CITATIONS
19	Chimney-enhanced natural convection from a vertical plate: experiments and numerical simulations. International Journal of Heat and Mass Transfer, 2003, 46, 497-512.	2.5	51
20	A novel multi-dimensional model for solidification process with supercooling. International Journal of Heat and Mass Transfer, 2017, 106, 91-102.	2.5	47
21	Analytical model of a PCM-air heat exchanger. Applied Thermal Engineering, 2011, 31, 3453-3462.	3.0	44
22	Experimental and comprehensive theoretical study of cold storage packages containing PCM. Applied Thermal Engineering, 2017, 115, 899-912.	3.0	44
23	Graphite-based shape-stabilized composites for phase change material applications. Renewable Energy, 2021, 167, 580-590.	4.3	39
24	An analytical solution of the convectionâ€dispersionâ€reaction equation for a finite region with a pulse boundary condition. Chemical Engineering Journal, 2011, 167, 403-408.	6.6	24
25	Local heat transfer under an array of micro jet impingement using HFE-7000. Applied Thermal Engineering, 2019, 158, 113716.	3.0	17
26	Spatial temperature resolution in single-phase micro slot jet impingement cooling. International Journal of Heat and Mass Transfer, 2018, 118, 720-733.	2.5	15
27	Enhancing thermal conductivity in graphene-loaded paint: Effects of phase change, rheology and filler size. International Journal of Thermal Sciences, 2020, 153, 106381.	2.6	15
28	Experimental validation of the Stokes law at nonisothermal conditions. Physics of Fluids, 2002, 14, 2015-2018.	1.6	13
29	Fluorescent claysâ€™ Similar transfer with sensitive detection. Chemical Engineering Journal, 2011, 174, 482-488.	6.6	13
30	Cleaning secondary effluents with organoclays and activated carbon. Journal of Chemical Technology and Biotechnology, 2012, 87, 51-57.	1.6	11
31	Turbulent jet erosion of a stably stratified gas layer in a nuclear reactor test containment. Nuclear Engineering and Design, 2015, 292, 133-148.	0.8	11
32	Flow and heat transfer analysis of hybrid cooling schemes: Adding micro-jets to a micro-gap. International Journal of Thermal Sciences, 2019, 138, 367-383.	2.6	10
33	Thermoelectric Module-Variable Conductance Heat Pipe Assemblies for Reduced Power Temperature Control. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2012, 2, 474-482.	1.4	9
34	Filler dimensionality effect on the performance of paraffin-based phase change materials. Journal of Colloid and Interface Science, 2022, 627, 587-595.	5.0	9
35	Melting in a vertical pipe due to asymmetric heating. Renewable Energy, 2020, 152, 179-188.	4.3	8
36	Nusselt Numbers for Thermally Developing Couette Flow With Hydrodynamic and Thermal Slip. Journal of Heat Transfer, 2014, 136, .	1.2	7

#	ARTICLE	IF	CITATIONS
37	Solidification of subcooled gallium poured into a vertical cylindrical mold. International Journal of Thermodynamics, 2016, 19, 36.	0.4	5
38	Down the Dimensionality Lane: Thermal Conductivity Enhancement in Carbon-Based Liquid Dispersions. ACS Applied Materials & Interfaces, 2022, 14, 9844-9854.	4.0	5
39	Small Size Integrated CsI(Tl) Spectrometer Efficiency and Properties Dependence on Temperature. IEEE Transactions on Nuclear Science, 2008, 55, 1237-1240.	1.2	4
40	Optimization of rib-roughened annular gas-coolant channels. Nuclear Engineering and Design, 2010, 240, 344-351.	0.8	4
41	An Analytical Technique of Transient Phase-Change Material Melting Calculation for Cylindrical and Tubular Containers. Heat Transfer Engineering, 2019, 40, 1182-1195.	1.2	4
42	Analysis of time-dependent heat transfer with periodic excitation in microscale systems. Applied Thermal Engineering, 2021, 196, 117225.	3.0	3
43	Local Heat Transfer Coefficients Measurement Under Micro Jet Impinging Using Nitrogen Gas (N2). , 2016, , .		2
44	Modeling of heat transfer in phase change materials for thermal energy storage systems. , 2021, , 359-379.		1
45	Temperature moderation in a multistorey building by melting of a phase-change material. Archives of Thermodynamics, 2013, 34, 85-101.	1.0	0
46	Experimental and Numerical Investigation of Heat Removal by Microjets. , 2018, , 195-202.		0