

# Seok Pil Jang

## List of Publications by Citations

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74  
papers

5,475  
citations

24  
h-index

73  
g-index

83  
ext. papers

6,024  
ext. citations

2.9  
avg, IF

5.82  
L-index

#	Paper	IF	Citations
74	Role of Brownian motion in the enhanced thermal conductivity of nanofluids. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 4316-4318	3.4	1160
73	A benchmark study on the thermal conductivity of nanofluids. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 094313	4.9	766
72	Effective viscosities and thermal conductivities of aqueous nanofluids containing low volume concentrations of Al <sub>2</sub> O <sub>3</sub> nanoparticles. <i>International Journal of Heat and Mass Transfer</i> , <b>2008</b> , 51, 2651-2656	4.9	579
71	Stability and thermal conductivity characteristics of nanofluids. <i>Thermochimica Acta</i> , <b>2007</b> , 455, 70-74	2.9	471
70	Flow and convective heat transfer characteristics of water-based Al <sub>2</sub> O <sub>3</sub> nanofluids in fully developed laminar flow regime. <i>International Journal of Heat and Mass Transfer</i> , <b>2009</b> , 52, 193-199	4.9	460
69	Cooling performance of a microchannel heat sink with nanofluids. <i>Applied Thermal Engineering</i> , <b>2006</b> , 26, 2457-2463	5.8	312
68	Effects of Various Parameters on Nanofluid Thermal Conductivity. <i>Journal of Heat Transfer</i> , <b>2007</b> , 129, 617-623	1.8	292
67	Buoyancy-driven heat transfer of water-based Al <sub>2</sub> O <sub>3</sub> nanofluids in a rectangular cavity. <i>International Journal of Heat and Mass Transfer</i> , <b>2007</b> , 50, 4003-4010	4.9	271
66	Effect of nanofluids on the thermal performance of a flat micro heat pipe with a rectangular grooved wick. <i>International Journal of Heat and Mass Transfer</i> , <b>2010</b> , 53, 2183-2192	4.9	128
65	Effects of the Darcy number, the Prandtl number, and the Reynolds number on local thermal non-equilibrium. <i>International Journal of Heat and Mass Transfer</i> , <b>2002</b> , 45, 3885-3896	4.9	108
64	Thermal resistance of screen mesh wick heat pipes using the water-based Al <sub>2</sub> O <sub>3</sub> nanofluids. <i>International Journal of Heat and Mass Transfer</i> , <b>2010</b> , 53, 5888-5894	4.9	86
63	Particle concentration and tube size dependence of viscosities of Al <sub>2</sub> O <sub>3</sub> -water nanofluids flowing through micro- and minitubes. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 243112	3.4	86
62	Effect of surfactants on the stability and solar thermal absorption characteristics of water-based nanofluids with multi-walled carbon nanotubes. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 122, 483-490	4.9	64
61	Effect of particle shape on suspension stability and thermal conductivities of water-based bohemite alumina nanofluids. <i>Energy</i> , <b>2015</b> , 90, 1290-1297	7.9	59
60	Extinction coefficient of aqueous nanofluids containing multi-walled carbon nanotubes. <i>International Journal of Heat and Mass Transfer</i> , <b>2013</b> , 67, 930-935	4.9	56
59	Effect of tip clearance on the cooling performance of a microchannel heat sink. <i>International Journal of Heat and Mass Transfer</i> , <b>2004</b> , 47, 1099-1103	4.9	56
58	Experimental investigation of thermal characteristics for a microchannel heat sink subject to an impinging jet, using a micro-thermal sensor array. <i>Sensors and Actuators A: Physical</i> , <b>2003</b> , 105, 211-224	3.9	48

57	Experimental and numerical analysis of heat transfer phenomena in a sensor tube of a mass flow controller. <i>International Journal of Heat and Mass Transfer</i> , <b>2001</b> , 44, 1711-1724	4.9	39
56	Efficiency of a volumetric receiver using aqueous suspensions of multi-walled carbon nanotubes for absorbing solar thermal energy. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 80, 58-71	4.9	36
55	The effect of nanoparticle shape on the thermal resistance of a flat-plate heat pipe using acetone-based Al <sub>2</sub> O <sub>3</sub> nanofluids. <i>International Journal of Heat and Mass Transfer</i> , <b>2016</b> , 92, 572-577	4.9	35
54	Production of aqueous spherical gold nanoparticles using conventional ultrasonic bath. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 420	5	33
53	Fluid Flow and Thermal Characteristics of a Microchannel Heat Sink Subject to an Impinging Air Jet. <i>Journal of Heat Transfer</i> , <b>2005</b> , 127, 770-779	1.8	33
52	Do temperature and nanoparticle size affect the thermal conductivity of alumina nanofluids?. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 161908	3.4	31
51	Thermal efficiency comparison: Surface-based solar receivers with conventional fluids and volumetric solar receivers with nanofluids. <i>Energy</i> , <b>2016</b> , 115, 404-417	7.9	30
50	Free Convection in a Rectangular Cavity (Benard Convection) With Nanofluids <b>2004</b> , 147		22
49	Magnetic-Thermal-Fluidic Analysis for Cooling Performance of Magnetic Nanofluids Comparing With Transformer Oil and Air by Using Fully Coupled Finite Element Method. <i>IEEE Transactions on Magnetics</i> , <b>2013</b> , 49, 1865-1868	2	21
48	Thermal Optimization of a Circular-Sector Finned Tube Using a Porous Medium Approach. <i>Journal of Heat Transfer</i> , <b>2002</b> , 124, 1026-1033	1.8	20
47	Experimental Study on the Effect of Nanoparticle Migration on the Convective Heat Transfer Coefficient of EG/Water-based Al <sub>2</sub> O <sub>3</sub> Nanofluids. <i>International Journal of Heat and Mass Transfer</i> , <b>2021</b> , 169, 120903	4.9	15
46	Round-robin test on thermal conductivity measurement of ZnO nanofluids and comparison of experimental results with theoretical bounds. <i>Nanoscale Research Letters</i> , <b>2011</b> , 6, 258	5	13
45	Effect of mesh wick geometry on the maximum heat transfer rate of flat-micro heat pipes with multi-heat sources and sinks. <i>International Journal of Heat and Mass Transfer</i> , <b>2019</b> , 131, 537-545	4.9	12
44	Long-term reliability of the thermal performance of a flat-plate heat pipe using a prognostics method. <i>International Journal of Heat and Mass Transfer</i> , <b>2015</b> , 82, 369-372	4.9	9
43	Spray jet penetration and distribution of modulated liquid jets in subsonic cross-flows. <i>Journal of Mechanical Science and Technology</i> , <b>2010</b> , 24, 1425-1431	1.6	9
42	Heat transfer enhancement of a radiator with mass-producing nanofluids (EG/water-based Al <sub>2</sub> O <sub>3</sub> nanofluids) for cooling a 100 kW high power system. <i>Applied Thermal Engineering</i> , <b>2020</b> , 180, 115780	5.8	9
41	Thermal performance criterion for nanofluids in laminar flow regime. <i>Journal of Mechanical Science and Technology</i> , <b>2017</b> , 31, 975-983	1.6	8
40	Electrokinetic effects of charged nanoparticles in microfluidic Couette flow. <i>Journal of Colloid and Interface Science</i> , <b>2011</b> , 363, 59-63	9.3	8

39	Thermal characteristics of silicon wafer-based TVCs (thin vapor chambers) with disk-shape using DI water. <i>International Journal of Heat and Mass Transfer</i> , <b>2018</b> , 127, 526-534	4.9	7
38	Thermal characteristics of an N <sub>2</sub> O catalytic igniter with metal foam for hybrid rocket motors. <i>International Journal of Heat and Mass Transfer</i> , <b>2013</b> , 66, 101-110	4.9	7
37	Note: effect of the tilting angle of the wire on the onset of natural convection in the transient hot wire method. <i>Review of Scientific Instruments</i> , <b>2012</b> , 83, 076103	1.7	7
36	A review of the internal forced convective heat transfer characteristics of nanofluids: Experimental features, mechanisms and thermal performance criteria. <i>Journal of Mechanical Science and Technology</i> , <b>2018</b> , 32, 3491-3505	1.6	6
35	Extinction coefficient of water-based multi-walled carbon nanotube nanofluids for application in direct-absorption solar collectors. <i>Micro and Nano Letters</i> , <b>2014</b> , 9, 635-638	0.9	6
34	Aqueous nanofluids containing paraffin-filled MWCNTs for improving effective specific heat and extinction coefficient. <i>Energy</i> , <b>2020</b> , 210,	7.9	6
33	Effect of polyolester oil-based multiwalled carbon-nanotube nanolubricant on the coefficient of performance of refrigeration systems. <i>Applied Thermal Engineering</i> , <b>2021</b> , 192, 116941	5.8	6
32	Flow and Thermal Characteristics of Condensing Steam in a Single Horizontal Mini-Channel of a Multiport Cylinder Dryer. <i>Drying Technology</i> , <b>2010</b> , 29, 47-54	2.6	5
31	Effects of porosity, pumping power, and L/D ratio on the thermal characteristics of an N <sub>2</sub> O catalytic igniter with packed bed geometry. <i>International Journal of Heat and Mass Transfer</i> , <b>2010</b> , 53, 726-731	4.9	5
30	Effect of the Freeze-Thaw on the Suspension Stability and Thermal Conductivity of EG/Water-Based Al <sub>2</sub> O <sub>3</sub> Nanofluids. <i>Journal of Nanomaterials</i> , <b>2019</b> , 2019, 1-8	3.2	5
29	Motion of Nanoparticles in Nanofluids Under an Electric Field <b>2005</b> , 497		4
28	Enhancement of Processability and Electrical Resistance by Use of Ag-Based Composite Inks Containing Ultrafine SAC305 Alloy Nanoparticles. <i>Journal of Electronic Materials</i> , <b>2014</b> , 43, 3372-3378	1.9	3
27	Response to Comment on Particle concentration and tube size dependence of viscosities of Al <sub>2</sub> O <sub>3</sub> -water nanofluids flowing through micro-and minitubes[Appl. Phys. Lett. 94, 066101 (2009)]. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 066102	3.4	3
26	Bulk mean temperature in porous medium analysis. <i>International Journal of Heat and Mass Transfer</i> , <b>2004</b> , 47, 5603-5607	4.9	3
25	Radius effect on the thermal resistance of disk-shaped thin vapor chambers (TVCs) using Al <sub>2</sub> O <sub>3</sub> nanofluids. <i>International Journal of Heat and Mass Transfer</i> , <b>2020</b> , 154, 119769	4.9	3
24	Reliability study on skewness of doublet impinging injectors. <i>Journal of Mechanical Science and Technology</i> , <b>2017</b> , 31, 2295-2306	1.6	2
23	Design optimization of a methane-fuel rocket combustor with a genetic algorithm. <i>Journal of Mechanical Science and Technology</i> , <b>2015</b> , 29, 1457-1463	1.6	2
22	Efficiency of a Direct Absorption Solar Collector using Ag Nanofluids Synthesized by Chemical Reduction Method. <i>Journal of the Korean Solar Energy Society</i> , <b>2014</b> , 34, 65-72	0.1	2

21	Rheological Characteristics of Kerosene Gel Fuel with SiO <sub>2</sub> Gellant Derivatives. <i>Journal of the Korean Society of Propulsion Engineers</i> , <b>2012</b> , 16, 23-31	0.2	2
20	Transformation of SAC (Sn <sub>3.0</sub> Ag <sub>0.5</sub> Cu) nanoparticles into bulk material during melting process with large melting-point depression. <i>Micro and Nano Letters</i> , <b>2016</b> , 11, 840-843	0.9	2
19	Flow and Convective Heat Transfer Characteristics of Nanofluids With Various Shapes of Alumina Nanoparticles <b>2009</b> ,		1
18	Onset of Natural Convection in Transient Hot Wire Device for Measuring Thermal Conductivity of Nanofluids. <i>Transactions of the Korean Society of Mechanical Engineers, B</i> , <b>2011</b> , 35, 279-285	0.5	1
17	Study on the Melting Point Depression of Tin Nanoparticles Manufactured by Modified Evaporation Method. <i>Transactions of the Korean Society of Mechanical Engineers, B</i> , <b>2014</b> , 38, 695-700	0.5	1
16	Fluid Flow and Convective Heat Transfer Characteristics of Al <sub>2</sub> O <sub>3</sub> Nanofluids. <i>Transactions of the Korean Society of Mechanical Engineers, B</i> , <b>2007</b> , 31, 16-20	0.5	1
15	New Bone Formation Following Transplantation of Stem Cells and Nanoscale Hydroxyapatite Scaffold Materials into Rabbit Long Bone Defects. <i>The Journal of the Korean Orthopaedic Association</i> , <b>2011</b> , 46, 18	0.1	0
14	Discussion: Analysis of Asymmetric Disk-Shaped and Flat-Plate Heat Pipes [Vafai, K., Zhu, N., and Wang, W., 1995, ASME J. Heat Transfer, 117(1), pp. 209-18]. <i>Journal of Heat Transfer</i> , <b>2014</b> , 136,	1.8	
13	Flow Characteristics of Nanofluids According to Nanoparticles Shape. <i>Applied Mechanics and Materials</i> , <b>2011</b> , 110-116, 3728-3736	0.3	
12	Study on the Thermal Characteristics of Heat Pipes with Water-Based MWCNT Nanofluids. <i>Applied Mechanics and Materials</i> , <b>2011</b> , 110-116, 1879-1885	0.3	
11	Fluid Flow and Thermal Characteristics for a Microchannel Heat Sink Subject to an Impinging Jet <b>2003</b> , 263		
10	Thermal Characteristics of an N <sub>2</sub> O Catalytic Ignitor with Packed-bed Geometry. <i>Transactions of the Korean Society of Mechanical Engineers, B</i> , <b>2007</b> , 31, 398-404	0.5	
9	Experimental Investigation of Coupling Effects between Particle Size and Temperature on the Thermal Conductivity of Alumina Nanofluids. <i>Journal of ILASS-Korea</i> , <b>2014</b> , 19, 174-181		
8	Wettability of SAC305-coated Cu Fabricated by Low Temperature Process Using Ultrafine SAC305 Nanoparticles. <i>Journal of the Microelectronics and Packaging Society</i> , <b>2015</b> , 22, 25-30		
7	Thermal Characteristics of an Electric Clothes Dryer. <i>Transactions of the Korean Society of Mechanical Engineers, B</i> , <b>2009</b> , 33, 629-634	0.5	
6	Flow Characteristics of Al <sub>2</sub> O <sub>3</sub> Nanofluids with Nanoparticles of Various Shapes. <i>Transactions of the Korean Society of Mechanical Engineers, B</i> , <b>2011</b> , 35, 293-299	0.5	
5	Experimental Investigation of Thermal Conductivities of EG-based ZnO Nanofluids Manufactured Using Pulsed Wire Evaporation Method. <i>Transactions of the Korean Society of Mechanical Engineers, B</i> , <b>2012</b> , 36, 111-115	0.5	
4	Experimental Study of Pressure Drop in Compressible Fluid through Porous Media. <i>Transactions of the Korean Society of Mechanical Engineers, B</i> , <b>2013</b> , 37, 759-765	0.5	

- 3 Study on Efficiency of Flat-Plate Solar Collector Using Nanofluids. *Transactions of the Korean Society of Mechanical Engineers, B*, **2013**, 37, 799-805 0.5
- 2 Effect of Insulation Coating on Start Time of Linear Region for Transient Hot-wire Method. *Transactions of the Korean Society of Mechanical Engineers, B*, **2013**, 37, 1147-1152 0.5
- 1 Extinction coefficient measurement of supercritical water-based multi-walled carbon nanotube nanofluids. *AIP Advances*, **2022**, 12, 065305 1.5