

# Jung-Yeul Jung

## List of Publications by Year in descending order

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Version: 2024-02-01

73  
papers

2,150  
citations

236925

25  
h-index

233421

45  
g-index

73  
all docs

73  
docs citations

73  
times ranked

2323  
citing authors

#	ARTICLE	IF	CITATIONS
1	Forced convective heat transfer of nanofluids in microchannels. <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 466-472.	4.8	291
2	Thermal conductivity measurement of methanol-based nanofluids with Al <sub>2</sub> O <sub>3</sub> and SiO <sub>2</sub> nanoparticles. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 5597-5602.	4.8	177
3	Evaporating characteristics of sessile droplet on hydrophobic and hydrophilic surfaces. <i>Microelectronic Engineering</i> , 2009, 86, 1350-1353.	2.4	140
4	CO <sub>2</sub> bubble absorption enhancement in methanol-based nanofluids. <i>International Journal of Refrigeration</i> , 2011, 34, 1727-1733.	3.4	92
5	CO <sub>2</sub> absorption characteristics of nanoparticle suspensions in methanol. <i>Journal of Mechanical Science and Technology</i> , 2012, 26, 2285-2290.	1.5	91
6	Thermal conductivity enhancement of nanofluids in conjunction with electrical double layer (EDL). <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 525-528.	4.8	89
7	Optimal planning and economic evaluation of cogeneration system. <i>Energy</i> , 2007, 32, 760-771.	8.8	68
8	Electromigration Current Rectification in a Cylindrical Nanopore Due to Asymmetric Concentration Polarization. <i>Analytical Chemistry</i> , 2009, 81, 3128-3133.	6.5	61
9	Aggregation based model for heat conduction mechanism in nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2014, 72, 392-399.	4.8	60
10	Separation of Microparticles and Biological Cells Inside an Evaporating Droplet Using Dielectrophoresis. <i>Analytical Chemistry</i> , 2007, 79, 5087-5092.	6.5	57
11	Thermal conductivity measurement and characterization of binary nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 1728-1733.	4.8	57
12	Effect of surface condition on boiling heat transfer from silicon chip with submicron-scale roughness. <i>International Journal of Heat and Mass Transfer</i> , 2006, 49, 4543-4551.	4.8	55
13	Forces Acting on a Single Particle in an Evaporating Sessile Droplet on a Hydrophilic Surface. <i>Analytical Chemistry</i> , 2010, 82, 784-788.	6.5	52
14	Fluid flow and heat transfer in microchannels with rectangular cross section. <i>Heat and Mass Transfer</i> , 2008, 44, 1041-1049.	2.1	50
15	Pollution risk assessment of oil spill accidents in Garorim Bay of Korea. <i>Marine Pollution Bulletin</i> , 2015, 100, 297-303.	5.0	49
16	Risk assessment and national measure plan for oil and HNS spill accidents near Korea. <i>Marine Pollution Bulletin</i> , 2013, 73, 339-344.	5.0	46
17	Stabilizer effect on CHF and boiling heat transfer coefficient of alumina/water nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 1941-1946.	4.8	42
18	Cylindrical Water Triboelectric Nanogenerator via Controlling Geometrical Shape of Anodized Aluminum for Enhanced Electrostatic Induction. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 25014-25018.	8.0	40

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19	Exergetic and thermoeconomic analysis of a 200-kW phosphoric acid fuel cell plant. <i>Fuel</i> , 2004, 83, 2087-2094.	6.4	38
20	Multi-criteria route planning with risk contour map for smart navigation. <i>Ocean Engineering</i> , 2019, 172, 72-85.	4.3	36
21	Thermoeconomic analysis of an ocean thermal energy conversion plant. <i>Renewable Energy</i> , 2016, 86, 1086-1094.	8.9	35
22	Behavior of Particles in an Evaporating Disperse Colloid Droplet on a Hydrophilic Surface. <i>Analytical Chemistry</i> , 2009, 81, 8256-8259.	6.5	34
23	Fabrication and testing of bubble powered micropumps using embedded microheater. <i>Microfluidics and Nanofluidics</i> , 2007, 3, 161-169.	2.2	30
24	Forced Convective Heat Transfer of Nanofluids in Microchannels. , 2006, , 327.		29
25	Corrosion resistance of water repellent aluminum surfaces with various wetting morphologies. <i>Applied Surface Science</i> , 2019, 467-468, 1046-1052.	6.1	29
26	CO2 transport strategy and its cost estimation for the offshore CCS in Korea. <i>Applied Energy</i> , 2013, 111, 1054-1060.	10.1	28
27	The study on the critical heat flux and pool boiling heat transfer coefficient of binary nanofluids (H <sub>2</sub> O/LiBr+Al <sub>2</sub> O <sub>3</sub> ). <i>International Journal of Refrigeration</i> , 2013, 36, 1056-1061.	3.4	24
28	Effect of ionic additive on pool boiling critical heat flux of titania/water nanofluids. <i>Heat and Mass Transfer</i> , 2013, 49, 1-10.	2.1	23
29	Thermal conductivity enhancement of Al <sub>2</sub> O <sub>3</sub> nanofluids based on the mixtures of aqueous NaCl solution and CH <sub>3</sub> OH. <i>International Journal of Heat and Mass Transfer</i> , 2013, 56, 94-100.	4.8	23
30	The effect of surface area on pool boiling heat transfer coefficient and CHF of Al <sub>2</sub> O <sub>3</sub> /water nanofluids. <i>Journal of Mechanical Science and Technology</i> , 2013, 27, 3177-3182.	1.5	22
31	Bubble Nucleation on Micro Line Heaters. <i>Journal of Heat Transfer</i> , 2003, 125, 687-692.	2.1	21
32	A capillary-pumped loop (CPL) with microcone-shaped capillary structure for cooling electronic devices. <i>Journal of Micromechanics and Microengineering</i> , 2008, 18, 017002.	2.6	21
33	Bubble nucleation on micro line heaters under steady or finite pulse of voltage input. <i>International Journal of Heat and Mass Transfer</i> , 2003, 46, 3897-3907.	4.8	19
34	Initial environmental risk assessment of hazardous and noxious substances (HNS) spill accidents to mitigate its damages. <i>Marine Pollution Bulletin</i> , 2019, 139, 205-213.	5.0	17
35	Effect of surface charge state on the thermal conductivity of nanofluids. <i>Heat and Mass Transfer</i> , 2012, 48, 713-718.	2.1	16
36	Characteristics analysis of the developed surface modification technologies to improve the anti-corrosion performances for offshore equipments. <i>Journal of Mechanical Science and Technology</i> , 2019, 33, 3971-3979.	1.5	15

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37	On-board measurement methodology for the liquid-solid slurry production of deep-seabed mining. Ocean Engineering, 2018, 149, 170-182.	4.3	14
38	A comparative study of deep learning-based network model and conventional method to assess beach debris standing-stock. Marine Pollution Bulletin, 2021, 168, 112466.	5.0	13
39	Thermal conductivity enhancement of binary nanoemulsion (O/S) for absorption application. International Journal of Heat and Mass Transfer, 2011, 54, 1649-1653.	4.8	12
40	Development of a new simulation model of spin coating process and its application to optimize the 450 mm wafer coating process. International Journal of Heat and Mass Transfer, 2010, 53, 1712-1717.	4.8	10
41	Model for predicting the critical size of aggregates in nanofluids. Journal of Mechanical Science and Technology, 2013, 27, 1165-1169.	1.5	10
42	A superhydrophilic nitinol shape memory alloy with enhanced anti-biofouling and anti-corrosion properties. Biofouling, 2016, 32, 535-545.	2.2	9
43	Development of waterborne oil spill sensor based on printed ITO nanocrystals. Marine Pollution Bulletin, 2015, 98, 130-136.	5.0	8
44	Environmental and economic loss analyses of the oil discharge from shipwreck for salvage planning. Marine Pollution Bulletin, 2020, 155, 111142.	5.0	8
45	Experimental Study of N2 Impurity Effect on the Steady and Unsteady CO2 Pipeline Flow. Energy Procedia, 2013, 37, 3039-3046.	1.8	7
46	Prediction of gas cooling heat transfer coefficients for CO2-oil mixtures. International Journal of Refrigeration, 2013, 36, 129-135.	3.4	7
47	Gap size effect on the tribological characteristics of the roller for deep-sea mining robot. Marine Georesources and Geotechnology, 2017, 35, 120-126.	2.1	7
48	PARAMETRIC STUDY ON TRANSIENT HOT-WIRE METHOD TO MEASURE NANOFLUID CONDUCTIVITIES. International Journal of Air-Conditioning and Refrigeration, 2010, 18, 191-199.	0.7	6
49	Economic Evaluation of Ship-based CCS with Availability. Energy Procedia, 2013, 37, 2511-2518.	1.8	6
50	Development of a new contactless dielectrophoresis system for active particle manipulation using movable liquid electrodes. Electrophoresis, 2014, 35, 2014-2021.	2.4	6
51	CO2 Transport Strategy for the Offshore CCS in Korea. Energy Procedia, 2013, 37, 3242-3249.	1.8	5
52	Electrical and Chemical Sensing Properties of a Printed Indium-Tin-Oxide Film for the Detection of Hazardous and Noxious Substances. Journal of the Korean Physical Society, 2020, 76, 1005-1009.	0.7	5
53	Quantum Nucleation of Bubbles in Liquid Heliums. Journal of the Physical Society of Japan, 2002, 71, 2186-2191.	1.6	4
54	Bubble Nucleation and Behavior on Micro Square Heaters. Nanoscale and Microscale Thermophysical Engineering, 2006, 10, 95-107.	2.6	4

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55	Endowing antifouling properties on metal substrata by creating an artificial barrier layer based on scalable metal oxide nanostructures. <i>Biofouling</i> , 2020, 36, 766-782.	2.2	4
56	Chemical sensing properties of indium-tin-oxide (ITO) printed films fabricated on biodegradable plastics. <i>AIP Advances</i> , 2020, 10, 045228.	1.3	4
57	Experimental Study on N2Impurity Effect in the Pressure Drop During CO2Mixture Transportation. <i>Journal of the Korean Society for Marine Environment &amp; Energy</i> , 2012, 15, 67-75.	0.2	4
58	Fluid Flow and Heat Transfer in Microchannels With Rectangular Cross Section. , 2003, , 291.		3
59	Enhancement of Corrosion Resistance of Aluminum 7075 Surface through Oil Impregnation for Subsea Application. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3762.	2.5	3
60	Proteinaceous bubble and nanoparticle flows in microchannels. <i>Microfluidics and Nanofluidics</i> , 2005, 1, 177-182.	2.2	2
61	Reliability evaluation of conceptual design for the dehydration package. <i>Journal of Mechanical Science and Technology</i> , 2018, 32, 5263-5271.	1.5	2
62	Availability Estimation of Air Compression and Nitrogen Generation Systems in LNG-FPSO Depending on Design Stages. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8657.	2.5	2
63	An Aqueous Ammonia Sensor Based on Printed Indium Tin Oxide Layer. <i>Sensors and Materials</i> , 2017, , 57.	0.5	2
64	Assessment of Marine Debris on Hard-to-Reach Places Using Unmanned Aerial Vehicles and Segmentation Models Based on a Deep Learning Approach. <i>Sustainability</i> , 2022, 14, 8311.	3.2	2
65	Bubble Nucleation and Growth on Surface of Rapidly Heated Micro Heaters. , 2002, , 209.		1
66	A Numerical Study on CO2 Seepage from Offshore Geologic Storage Site. <i>Energy Procedia</i> , 2013, 37, 3432-3438.	1.8	1
67	Evaporative Characteristics of Al2O3 Nanofluid Droplet on Heated Surface. <i>Journal of Heat Transfer</i> , 2016, 138, .	2.1	1
68	Nanopore Protein Biosensor Using Diffusive Flow. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 127002.	1.5	1
69	Nanopore Protein Biosensor Using Diffusive Flow. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 127002.	1.5	0
70	Detection & Collection of Bacteria in an Evaporating Sessile Droplet. <i>Journal of Heat Transfer</i> , 2014, 136, .	2.1	0
71	Effects of Curvature on the Flow Characteristics and Particle Behavior in the Flame Spray Process. <i>Materials Transactions</i> , 2015, 56, 2070-2077.	1.2	0
72	Fabrication of printed ITO sensor for the ammonia hydroxide detection. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
73	Multifunctional Fire Sensor Fabricated on a Flexible Substrate. Journal of Sensor Science and Technology, 2020, 29, 40-44.	0.2	0