

Jung-Yeul Jung

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1874993/publications.pdf>

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	Assessment of Marine Debris on Hard-to-Reach Places Using Unmanned Aerial Vehicles and Segmentation Models Based on a Deep Learning Approach. Sustainability, 2022, 14, 8311.	3.2	2
2	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
3	Endowing antifouling properties on metal substrata by creating an artificial barrier layer based on scalable metal oxide nanostructures. Biofouling, 2020, 36, 766-782.	2.2	4
4	Availability Estimation of Air Compression and Nitrogen Generation Systems in LNG-FPSO Depending on Design Stages. Applied Sciences (Switzerland), 2020, 10, 8657.	2.5	2
5	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
6	Chemical sensing properties of indium-tin-oxide (ITO) printed films fabricated on biodegradable plastics. AIP Advances, 2020, 10, 045228.	1.3	4
7	Environmental and economic loss analyses of the oil discharge from shipwreck for salvage planning. Marine Pollution Bulletin, 2020, 155, 111142.	5.0	8
8	Multifunctional Fire Sensor Fabricated on a Flexible Substrate. Journal of Sensor Science and Technology, 2020, 29, 40-44.	0.2	0
9	Enhancement of Corrosion Resistance of Aluminum 7075 Surface through Oil Impregnation for Subsea Application. Applied Sciences (Switzerland), 2019, 9, 3762.	2.5	3
10	Characteristics analysis of the developed surface modification technologies to improve the anti-corrosion performances for offshore equipments. Journal of Mechanical Science and Technology, 2019, 33, 3971-3979.	1.5	15
11	Multi-criteria route planning with risk contour map for smart navigation. Ocean Engineering, 2019, 172, 72-85.	4.3	36
12	Initial environmental risk assessment of hazardous and noxious substances (HNS) spill accidents to mitigate its damages. Marine Pollution Bulletin, 2019, 139, 205-213.	5.0	17
13	Corrosion resistance of water repellent aluminum surfaces with various wetting morphologies. Applied Surface Science, 2019, 467-468, 1046-1052.	6.1	29
14	On-board measurement methodology for the liquid-solid slurry production of deep-seabed mining. Ocean Engineering, 2018, 149, 170-182.	4.3	14
15	Reliability evaluation of conceptual design for the dehydration package. Journal of Mechanical Science and Technology, 2018, 32, 5263-5271.	1.5	2
16	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
17	An Aqueous Ammonia Sensor Based on Printed Indium Tin Oxide Layer. Sensors and Materials, 2017, , 57.	0.5	2
18	Evaporative Characteristics of Al ₂ O ₃ Nanofluid Droplet on Heated Surface. Journal of Heat Transfer, 2016, 138, .	2.1	1

#	ARTICLE	IF	CITATIONS
19	A superhydrophilic nitinol shape memory alloy with enhanced anti-biofouling and anti-corrosion properties. <i>Biofouling</i> , 2016, 32, 535-545.	2.2	9
20	Cylindrical Water Triboelectric Nanogenerator via Controlling Geometrical Shape of Anodized Aluminum for Enhanced Electrostatic Induction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 25014-25018.	8.0	40
21	Thermoeconomic analysis of an ocean thermal energy conversion plant. <i>Renewable Energy</i> , 2016, 86, 1086-1094.	8.9	35
22	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
23	Fabrication of printed ITO sensor for the ammonia hydroxide detection. , 2015, , .		0
24	Pollution risk assessment of oil spill accidents in Garorim Bay of Korea. <i>Marine Pollution Bulletin</i> , 2015, 100, 297-303.	5.0	49
25	Development of waterborne oil spill sensor based on printed ITO nanocrystals. <i>Marine Pollution Bulletin</i> , 2015, 98, 130-136.	5.0	8
26	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
27	Development of a new contactless dielectrophoresis system for active particle manipulation using movable liquid electrodes. <i>Electrophoresis</i> , 2014, 35, 2014-2021.	2.4	6
28	Detection & Collection of Bacteria in an Evaporating Sessile Droplet. <i>Journal of Heat Transfer</i> , 2014, 136, .	2.1	0
29	Model for predicting the critical size of aggregates in nanofluids. <i>Journal of Mechanical Science and Technology</i> , 2013, 27, 1165-1169.	1.5	10
30	CO2 transport strategy and its cost estimation for the offshore CCS in Korea. <i>Applied Energy</i> , 2013, 111, 1054-1060.	10.1	28
31	Experimental Study of N2 Impurity Effect on the Steady and Unsteady CO2 Pipeline Flow. <i>Energy Procedia</i> , 2013, 37, 3039-3046.	1.8	7
32	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
33	The effect of surface area on pool boiling heat transfer coefficient and CHF of Al2O3/water nanofluids. <i>Journal of Mechanical Science and Technology</i> , 2013, 27, 3177-3182.	1.5	22
34	Prediction of gas cooling heat transfer coefficients for CO2-oil mixtures. <i>International Journal of Refrigeration</i> , 2013, 36, 129-135.	3.4	7
35	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
36	Economic Evaluation of Ship-based CCS with Availability. <i>Energy Procedia</i> , 2013, 37, 2511-2518.	1.8	6

#	ARTICLE	IF	CITATIONS
37	A Numerical Study on CO ₂ Seepage from Offshore Geologic Storage Site. Energy Procedia, 2013, 37, 3432-3438.	1.8	1
38	CO ₂ Transport Strategy for the Offshore CCS in Korea. Energy Procedia, 2013, 37, 3242-3249.	1.8	5
39	The study on the critical heat flux and pool boiling heat transfer coefficient of binary nanofluids (H ₂ O/LiBr+Al ₂ O ₃). International Journal of Refrigeration, 2013, 36, 1056-1061.	3.4	24
40	Thermal conductivity enhancement of Al ₂ O ₃ nanofluids based on the mixtures of aqueous NaCl solution and CH ₃ OH. International Journal of Heat and Mass Transfer, 2013, 56, 94-100.	4.8	23
41	Thermal conductivity measurement of methanol-based nanofluids with Al ₂ O ₃ and SiO ₂ nanoparticles. International Journal of Heat and Mass Transfer, 2012, 55, 5597-5602.	4.8	177
42	CO ₂ absorption characteristics of nanoparticle suspensions in methanol. Journal of Mechanical Science and Technology, 2012, 26, 2285-2290.	1.5	91
43	Effect of surface charge state on the thermal conductivity of nanofluids. Heat and Mass Transfer, 2012, 48, 713-718.	2.1	16
44	Stabilizer effect on CHF and boiling heat transfer coefficient of alumina/water nanofluids. International Journal of Heat and Mass Transfer, 2012, 55, 1941-1946.	4.8	42
45	Experimental Study on N ₂ Impurity Effect in the Pressure Drop During CO ₂ Mixture Transportation. Journal of the Korean Society for Marine Environment & Energy, 2012, 15, 67-75.	0.2	4
46	CO ₂ bubble absorption enhancement in methanol-based nanofluids. International Journal of Refrigeration, 2011, 34, 1727-1733.	3.4	92
47	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
48	Thermal conductivity measurement and characterization of binary nanofluids. International Journal of Heat and Mass Transfer, 2011, 54, 1728-1733.	4.8	57
49	Nanopore Protein Biosensor Using Diffusive Flow. Japanese Journal of Applied Physics, 2011, 50, 127002.	1.5	0
50	Nanopore Protein Biosensor Using Diffusive Flow. Japanese Journal of Applied Physics, 2011, 50, 127002.	1.5	1
51	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
52	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
53	Forces Acting on a Single Particle in an Evaporating Sessile Droplet on a Hydrophilic Surface. Analytical Chemistry, 2010, 82, 784-788.	6.5	52
54	Forced convective heat transfer of nanofluids in microchannels. International Journal of Heat and Mass Transfer, 2009, 52, 466-472.	4.8	291

#	ARTICLE	IF	CITATIONS
55	Thermal conductivity enhancement of nanofluids in conjunction with electrical double layer (EDL). International Journal of Heat and Mass Transfer, 2009, 52, 525-528.	4.8	89
56	Evaporating characteristics of sessile droplet on hydrophobic and hydrophilic surfaces. Microelectronic Engineering, 2009, 86, 1350-1353.	2.4	140
57	Behavior of Particles in an Evaporating Disperse Colloid Droplet on a Hydrophilic Surface. Analytical Chemistry, 2009, 81, 8256-8259.	6.5	34
58	Electromigration Current Rectification in a Cylindrical Nanopore Due to Asymmetric Concentration Polarization. Analytical Chemistry, 2009, 81, 3128-3133.	6.5	61
59	Fluid flow and heat transfer in microchannels with rectangular cross section. Heat and Mass Transfer, 2008, 44, 1041-1049.	2.1	50
60	A capillary-pumped loop (CPL) with microcone-shaped capillary structure for cooling electronic devices. Journal of Micromechanics and Microengineering, 2008, 18, 017002.	2.6	21
61	Separation of Microparticles and Biological Cells Inside an Evaporating Droplet Using Dielectrophoresis. Analytical Chemistry, 2007, 79, 5087-5092.	6.5	57
62	Optimal planning and economic evaluation of cogeneration system. Energy, 2007, 32, 760-771.	8.8	68
63	Fabrication and testing of bubble powered micropumps using embedded microheater. Microfluidics and Nanofluidics, 2007, 3, 161-169.	2.2	30
64	Forced Convective Heat Transfer of Nanofluids in Microchannels. , 2006, , 327.		29
65	Effect of surface condition on boiling heat transfer from silicon chip with submicron-scale roughness. International Journal of Heat and Mass Transfer, 2006, 49, 4543-4551.	4.8	55
66	Bubble Nucleation and Behavior on Micro Square Heaters. Nanoscale and Microscale Thermophysical Engineering, 2006, 10, 95-107.	2.6	4
67	Proteinaceous bubble and nanoparticle flows in microchannels. Microfluidics and Nanofluidics, 2005, 1, 177-182.	2.2	2
68	Exergetic and thermoeconomic analysis of a 200-kW phosphoric acid fuel cell plant. Fuel, 2004, 83, 2087-2094.	6.4	38
69	Bubble nucleation on micro line heaters under steady or finite pulse of voltage input. International Journal of Heat and Mass Transfer, 2003, 46, 3897-3907.	4.8	19
70	Bubble Nucleation on Micro Line Heaters. Journal of Heat Transfer, 2003, 125, 687-692.	2.1	21
71	Fluid Flow and Heat Transfer in Microchannels With Rectangular Cross Section. , 2003, , 291.		3
72	Bubble Nucleation and Growth on Surface of Rapidly Heated Micro Heaters. , 2002, , 209.		1

#	ARTICLE	IF	CITATIONS
73	Quantum Nucleation of Bubbles in Liquid Heliums. Journal of the Physical Society of Japan, 2002, 71, 2186-2191.	1.6	4