Yonghua Huang

List of Publications by Year
in descending order

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55	620	706676	759306
papers	citations	14	22
		h-index	g-index

55	55	55	354
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dynamics of a gas bubble penetrating through porous media. Physics of Fluids, 2022, 34, .	1.6	11
2	Thermal analysis of coupled vapor-cooling-shield insulation for liquid hydrogen-oxygen pair storage. International Journal of Hydrogen Energy, 2022, 47, 8000-8014.	3.8	6
3	Interfacial mass and energy transport during steady-state evaporation in liquid oxygen storage tanks. Applied Energy, 2022, 323, 119588.	5.1	4
4	Analytical model of flow-through-screen pressure drop for metal wire screens considering the effects of pore structures. Chemical Engineering Science, 2021, 229, 116037.	1.9	11
5	Thermodynamic analysis of partially filled hydrogen tanks in a wide scale range. Applied Thermal Engineering, 2021, 193, 117007.	3.0	9
6	A numerical model for liquidâ€“vapor transition in self-pressurized cryogenic containers. Applied Thermal Engineering, 2021, 193, 117005.	3.0	15
7	Vitrification with microinjection of single seminiferous tubules: an efficient cryopreservation approach for limited testicular tissue. Reproductive BioMedicine Online, 2021, 43, 687-699.	1.1	2
8	Transient thermal behavior of multi-layer insulation coupled with vapor cooled shield used for liquid hydrogen storage tank. Energy, 2021, 231, 120859.	4.5	32
9	Testing and comparison of a thermodynamic vent system operating in different modes in a liquid nitrogen tank. Applied Thermal Engineering, 2021, 197, 117393.	3.0	3
10	Validity evaluation of popular liquid-vapor phase change models for cryogenic self-pressurization process. International Journal of Heat and Mass Transfer, 2021, 181, 121879.	2.5	14
11	Quasi-equilibrium evaporation characteristics of oxygen in the liquidâ€“vapor interfacial region. International Communications in Heat and Mass Transfer, 2021, 129, 105697.	2.9	10
12	Numerical Simulation on Interface Evolution and Pressurization Behaviors in Cryogenic Propellant Tank on Orbit. Microgravity Science and Technology, 2020, 32, 59-68.	0.7	9
13	Numerical investigation on full thermodynamic venting process of liquid hydrogen in an on-orbit storage tank. International Journal of Hydrogen Energy, 2020, 45, 27792-27805.	3.8	21
14	Novel parabolic trough solar collector and solar photovoltaic/thermal hybrid system for multi-generational systems. Energy Conversion and Management, 2020, 211, 112750.	4.4	29
15	Ice formation modes during flow freezing in a small cylindrical channel. International Journal of Heat and Mass Transfer, 2019, 128, 836-848.	2.5	15
16	EFFECT OF LOW WICK PERMEABILITY ON TRANSIENT AND STEADY-STATE PERFORMANCE OF HEAT PIPES. Heat Transfer Research, 2019, 50, 1319-1332.	0.9	2
17	Experimental evaluation of the performance of a thermodynamic vent system for a vaporâ€“liquid storage tank with R141b as the testing fluid. International Journal of Refrigeration, 2018, 90, 83-90.	1.8	4
18	Visualization study on capillary-spreading behavior of liquid droplet in vertically aligned carbon nanotube array. International Journal of Heat and Mass Transfer, 2018, 120, 1055-1064.	2.5	15

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19	Coupling optimization of composite insulation and vapor-cooled shield for on-orbit cryogenic storage tank. Cryogenics, 2018, 96, 90-98.	0.9	36
20	Modeling and experimental study on combination of foam and variable density multilayer insulation for cryogen storage. Energy, 2017, 123, 487-498.	4.5	47
21	Scale effects on evaporative heat transfer in carbon nanotube wick in heat pipes. International Journal of Heat and Mass Transfer, 2017, 111, 852-859.	2.5	21
22	Experimental study on pressure control of liquid nitrogen tank by thermodynamic vent system. Applied Thermal Engineering, 2017, 125, 1037-1046.	3.0	12
23	Performance of thermodynamic vent system for cryogenic propellant storage using different control strategies. Applied Thermal Engineering, 2017, 126, 100-107.	3.0	9
24	A numerical model for transient simulation of porous wicked heat pipes by lattice Boltzmann method. International Journal of Heat and Mass Transfer, 2017, 105, 270-278.	2.5	18
25	Cooling performance measurement of the reverse application of a coaxial free-piston Stirling engine. Science and Technology for the Built Environment, 2016, 22, 556-564.	0.8	4
26	Numerical investigation on thermal effects by adding thin compartmental plates into cooling enclosures with heat-leaking walls. Journal of Zhejiang University: Science A, 2016, 17, 485-496.	1.3	1
27	Visualization of Ice Formation Modes and Flow Blockage During Freezing of Water Flowing in a Microchannel. , 2016, , .		1
28	Optimization of variable density multilayer insulation for cryogenic application and experimental validation. Cryogenics, 2016, 80, 154-163.	0.9	41
29	Wetting behavior of patterned micro-pillar array predicted by an equivalent surface tension model. Journal of Mechanical Science and Technology, 2016, 30, 2651-2657.	0.7	1
30	A Deeper Look into the Thermodynamic Perfection of the Debye Equation of State for Helium-3. Physics Procedia, 2015, 67, 582-590.	1.2	2
31	A practical dimensionless equation for the thermal conductivity of carbon nanotubes and CNT arrays. AIP Advances, 2014, 4, 057115.	0.6	1
32	Research and development of large-scale cryogenic air separation in China. Journal of Zhejiang University: Science A, 2014, 15, 309-322.	1.3	53
33	Experimental investigation on sub-miliKelvin temperature control at liquid hydrogen temperatures. Cryogenics, 2014, 61, 158-163.	0.9	12
34	Thermal conductivity of helium-3 between 3 mK and 300 K. AIP Conference Proceedings, 2012, , .	0.3	4
35	Viscosity of liquid and gaseous helium-3 from 3mK to 500K. Cryogenics, 2012, 52, 538-543.	0.9	9
36	Performance of cryogenic regenerator with 3He as working fluid. Science Bulletin, 2011, 56, 1732-1738.	1.7	2

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37	Thermodynamic Diagrams of 3He from 0.2ÂK to 300ÂK Based Upon its Debye Fluid Equation of State. International Journal of Thermophysics, 2010, 31, 774-783.	1.0	2
38	OPTIMIZATION CALCULATIONS FOR A 30 HZ, 4 K REGENERATOR WITH HELIUM-3 WORKING FLUID. , 2010, , .		10
39	Study on Surface Tension of Fluid Helium Three. International Journal of Thermophysics, 2008, 29, 1321-1327.	1.0	1
40	A practical density equation for saturated vapor of helium-3 from 0.01K to the critical point. Cryogenics, 2008, 48, 12-16.	0.9	1
41	CALCULATED REGENERATOR PERFORMANCE AT 4 K WITH HELIUM-4 AND HELIUM-3. AIP Conference Proceedings, 2008, , .	0.3	15
42	Debye Fluid State Equation. International Journal of Thermophysics, 2007, 28, 417-428.	1.0	1
43	A practical vapor pressure equation for helium-3 from 0.01K to the critical point. Cryogenics, 2006, 46, 833-839.	0.9	21
44	Equation of State for Normal Liquid Helium-3 from 0.1 to 3.3157 K. Journal of Low Temperature Physics, 2006, 143, 1-29.	0.6	6
45	A New 3HE Vapor-Pressure Equation on the ITS-90 Scale. AIP Conference Proceedings, 2006, , .	0.3	0
46	Debye equation of state for fluid helium-3. Journal of Chemical Physics, 2006, 125, 054505.	1.2	22
47	Equation of state for fluid helium-3 based on Debye phonon model. Applied Physics Letters, 2006, 88, 091905.	1.5	4
48	pâ€“H and Tâ€“S diagrams of 3He from 0.2K to 20K. Cryogenics, 2005, 45, 687-693.	0.9	6
49	Density Equation for Saturated 3He. International Journal of Thermophysics, 2005, 26, 729-741.	1.0	8
50	Melting-pressure and density equations ofHe3at temperatures from0.001to30K. Physical Review B, 2005, 72, .	1.1	7
51	He-H2 mixture and Er3NiHx packing for the refrigeration enhancement of pulse tube refrigerator. Science Bulletin, 2004, 49, 527.	1.7	0
52	He-H2 mixture and Er3NiHx packing for the refrigeration enhancement of pulse tube refrigerator. Science Bulletin, 2004, 49, 527-530.	1.7	2
53	Refrigeration performance enhancement of pulse tube refrigerators with Heâ€“H2 mixtures and Er3NiHx regenerative material. Cryogenics, 2004, 44, 833-837.	0.9	8
54	Experimental study on natural circulation precooling of cryogenic pump system with gas phase inlet reflux configuration. Cryogenics, 2003, 43, 693-698.	0.9	3

#	ARTICLE	IF	CITATIONS
55	Influence of buffer on resonance frequency of thermoacoustic engine. Cryogenics, 2002, 42, 223-227.	0.9	17