

Yonglin Ju

List of Publications by Year in descending order

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127
papers

4,690
citations

134610

34
h-index

120465

65
g-index

128
all docs

128
docs citations

128
times ranked

7521
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of the LNG intermediate fluid vaporizer and its heat transfer characteristics. <i>Frontiers in Energy</i> , 2022, 16, 429-444.	1.2	6
2	Optimization and analysis of a novel hydrogen liquefaction process for circulating hydrogen refrigeration. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 348-364.	3.8	26
3	Review on the design and optimization of BOG re-liquefaction process in LNG ship. <i>Energy</i> , 2022, 244, 123065.	4.5	11
4	Light yield and field dependence measurement in PandaX-II dual-phase xenon detector. <i>Journal of Instrumentation</i> , 2022, 17, P01008.	0.5	0
5	Numerical study on the condensation characteristics of various refrigerants outside a horizontal plain tube at low temperatures. <i>International Journal of Thermal Sciences</i> , 2022, 176, 107508.	2.6	10
6	Review on cryogenic technologies for CO ₂ removal from natural gas. <i>Frontiers in Energy</i> , 2022, 16, 793-811.	1.2	6
7	Advanced design and analysis of BOG treatment process in LNG fueled ship combined with cold energy utilization from LNG gasification. <i>International Journal of Refrigeration</i> , 2022, 135, 231-242.	1.8	9
8	Conceptual design and optimization of a novel hydrogen liquefaction process based on helium expansion cycle integrating with mixed refrigerant pre-cooling. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 16949-16963.	3.8	23
9	Design and analysis of an efficient hydrogen liquefaction process based on helium reverse Brayton cycle integrating with steam methane reforming and liquefied natural gas cold energy utilization. <i>Energy</i> , 2022, 252, 124047.	4.5	28
10	Search for Cosmic-Ray Boosted Sub-GeV Dark Matter at the PandaX-II Experiment. <i>Physical Review Letters</i> , 2022, 128, 171801.	2.9	33
11	A search for two-component Majorana dark matter in a simplified model using the full exposure data of PandaX-II experiment. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2022, 832, 137254.	1.5	1
12	Transient performance study of high pressure fuel gas supply system for LNG fueled ships. <i>Cryogenics</i> , 2022, 125, 103510.	0.9	5
13	Numerical study on pressure variation of marine liquefied natural gas (LNG) fuel tanks under sinusoidal sloshing excitation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2022, 1240, 012032.	0.3	0
14	Dynamic modeling and analysis of bunkering and pressurization for marine LNG fuel tank. <i>IOP Conference Series: Materials Science and Engineering</i> , 2022, 1240, 012031.	0.3	0
15	Comparative life cycle cost analysis of low pressure fuel gas supply systems for LNG fueled ships. <i>Energy</i> , 2021, 218, 119541.	4.5	21
16	A Search for Solar Axions and Anomalous Neutrino Magnetic Moment with the Complete PandaX-II Data*. <i>Chinese Physics Letters</i> , 2021, 38, 011301.	1.3	24
17	System design and experimental verification of an internal insulation panel system for large-scale cryogenic wind tunnel. <i>Cryogenics</i> , 2021, 115, 103279.	0.9	2
18	Numerical study of the boil-off gas (BOG) generation characteristics in a type C independent liquefied natural gas (LNG) tank under sloshing excitation. <i>Energy</i> , 2021, 223, 120001.	4.5	27

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19	Search for Light Dark Matter—“Electron Scattering in the PandaX-II Experiment. <i>Physical Review Letters</i> , 2021, 126, 211803.	2.9	49
20	Determination of responses of liquid xenon to low energy electron and nuclear recoils using a PandaX-II detector *. <i>Chinese Physics C</i> , 2021, 45, 075001.	1.5	12
21	Design and commissioning of the PandaX-4T cryogenic distillation system for krypton and radon removal. <i>Journal of Instrumentation</i> , 2021, 16, P07046.	0.5	8
22	Constraining self-interacting dark matter with the full dataset of PandaX-II. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	2.0	12
23	Performance of cryogenic demountable indium seal at high pressures. <i>Review of Scientific Instruments</i> , 2021, 92, 093905.	0.6	1
24	Dynamic modeling and analysis of LNG fuel tank pressurization under marine conditions. <i>Energy</i> , 2021, 232, 121029.	4.5	11
25	Design and analysis of CO ₂ cryogenic separation process for the new LNG purification cold box. <i>International Journal of Refrigeration</i> , 2021, 130, 67-75.	1.8	14
26	Modeling, simulation and analysis of tank thermodynamic behaviors during no-vent LNG bunkering operations. <i>Cryogenics</i> , 2021, 120, 103373.	0.9	4
27	Horizontal position reconstruction in PandaX-II. <i>Journal of Instrumentation</i> , 2021, 16, P11040.	0.5	4
28	Dark Matter Search Results from the PandaX-4T Commissioning Run. <i>Physical Review Letters</i> , 2021, 127, 261802.	2.9	228
29	PandaX-4T cryogenic distillation system for removing krypton from xenon. <i>Review of Scientific Instruments</i> , 2021, 92, 123303.	0.6	1
30	Review on the design and optimization of hydrogen liquefaction processes. <i>Frontiers in Energy</i> , 2020, 14, 530-544.	1.2	63
31	An improved evaluation of the neutron background in the PandaX-II experiment. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020, 63, 1.	2.0	13
32	Process optimization and analysis of a novel hydrogen liquefaction cycle. <i>International Journal of Refrigeration</i> , 2020, 110, 219-230.	1.8	64
33	Experimental and simulation investigation on heat transfer characteristics of supercritical nitrogen in a new rib tube of open rack vaporizer. <i>International Journal of Refrigeration</i> , 2020, 111, 103-112.	1.8	15
34	Comprehensive comparison of small-scale natural gas liquefaction processes using brazed plate heat exchangers. <i>Frontiers in Energy</i> , 2020, 14, 683-698.	1.2	4
35	Design and analysis of a process for directly Re-liquefying BOG using subcooled LNG for LNG carrier. <i>Energy</i> , 2020, 199, 117445.	4.5	10
36	Experimental study on heat transfer characteristics of cooling falling film outside a vertical tube in open rack vaporizer. <i>Applied Thermal Engineering</i> , 2020, 172, 115187.	3.0	10

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37	Conceptual design and analysis of a novel process for BOG re-liquefaction combined with absorption refrigeration cycle. <i>Energy</i> , 2020, 205, 118008.	4.5	20
38	Experimental investigation on heat transfer characteristics of supercritical nitrogen in a heated vertical tube. <i>International Journal of Thermal Sciences</i> , 2020, 152, 106327.	2.6	11
39	Numerical simulation and experiment verification of the static boil-off rate and temperature field for a new independent type B liquefied natural gas ship mock up tank. <i>Applied Thermal Engineering</i> , 2020, 173, 115265.	3.0	16
40	Comparison and analysis of two processes for BOG re-liquefaction in LNG carrier with normal-temperature compressor. <i>International Journal of Refrigeration</i> , 2020, 115, 9-17.	1.8	17
41	Results of dark matter search using the full PandaX-II exposure *. <i>Chinese Physics C</i> , 2020, 44, 125001.	1.5	80
42	Internal calibration of the PandaX-II detector with radon gaseous sources. <i>Journal of Instrumentation</i> , 2020, 15, P12038-P12038.	0.5	8
43	The daily evaporation rate test and conversion method for a new independent type B LNG mock-up tank. <i>Cryogenics</i> , 2020, 111, 103168.	0.9	8
44	Dark matter direct search sensitivity of the PandaX-4T experiment. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	2.0	103
45	Design and optimization of natural gas liquefaction process using brazed plate heat exchangers based on the modified single mixed refrigerant process. <i>Energy</i> , 2019, 186, 115819.	4.5	17
46	PandaX-II constraints on spin-dependent WIMP-nucleon effective interactions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 792, 193-198.	1.5	51
47	Comparison and analysis of two nitrogen expansion cycles for BOG Re-liquefaction systems for small LNG ships. <i>Energy</i> , 2019, 172, 769-776.	4.5	38
48	Searching for neutrino-less double beta decay of ^{136}Xe with PandaX-II liquid xenon detector *. <i>Chinese Physics C</i> , 2019, 43, 113001.	1.5	20
49	LNG cold energy utilization: Prospects and challenges. <i>Energy</i> , 2019, 170, 557-568.	4.5	236
50	A comprehensive optimization and comparison of modified single mixed refrigerant and parallel nitrogen expansion liquefaction process for small-scale mobile LNG plant. <i>Energy</i> , 2019, 167, 1-12.	4.5	76
51	Thermal performance calculation with heat transfer correlations and numerical simulation analysis for typical LNG open rack vaporizer. <i>Applied Thermal Engineering</i> , 2019, 149, 1069-1079.	3.0	23
52	Review on the design and optimization of natural gas liquefaction processes for onshore and offshore applications. <i>Chemical Engineering Research and Design</i> , 2018, 132, 89-114.	2.7	138
53	Experimental study on CO ₂ frosting and clogging in a brazed plate heat exchanger for natural gas liquefaction process. <i>Cryogenics</i> , 2018, 91, 128-135.	0.9	10
54	Constraining Dark Matter Models with a Light Mediator at the PandaX-II Experiment. <i>Physical Review Letters</i> , 2018, 121, 021304.	2.9	57

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55	The analysis of the operating performance of a chiller system based on hierarchal cluster method. Energy and Buildings, 2017, 138, 695-703.	3.1	28
56	Spin-Dependent Weakly-Interacting-Massive-Particleâ€™Nucleon Cross Section Limits from First Data of PandaX-II Experiment. Physical Review Letters, 2017, 118, 071301.	2.9	101
57	Experimental study of quasi-periodic on-off phenomena in a small-scale traveling wave thermoacoustic heat engine. Cryogenics, 2017, 85, 23-29.	0.9	8
58	Experimental measurements and evaluation of the expanded water repellent perlite used for the cargo containment system of LNG carrier. Cryogenics, 2017, 87, 49-57.	0.9	0
59	The influence of the magnetic field on the convective heat transfer characteristics of Fe ₃ O ₄ /water nanofluids. Applied Thermal Engineering, 2017, 126, 108-116.	3.0	43
60	Design and optimization of a novel cryogenic Rankine power generation system employing binary and ternary mixtures as working fluids based on the cold exergy utilization of liquefied natural gas (LNG). Energy, 2017, 138, 706-720.	4.5	31
61	Limits on Axion Couplings from the First 80 Days of Data of the PandaX-II Experiment. Physical Review Letters, 2017, 119, 181806.	2.9	87
62	Dark Matter Results from 54-Ton-Day Exposure of PandaX-II Experiment. Physical Review Letters, 2017, 119, 181302.	2.9	764
63	Design and analysis of the thermal insulation system for a new independent type B LNG carrier. Ocean Engineering, 2017, 142, 51-61.	1.9	21
64	Experimental investigation on the convective heat transfer of Fe ₃ O ₄ /water nanofluids under constant magnetic field. Applied Thermal Engineering, 2017, 113, 566-574.	3.0	46
65	Exploring the dark matter inelastic frontier with 79.6 days of PandaX-II data. Physical Review D, 2017, 96, .	1.6	12
66	EXPERIMENTAL INVESTIGATION OF THE THERMAL PERFORMANCE OF WRAPAROUND LOOP HEAT PIPE HEAT EXCHANGER FOR HEAT RECOVERY IN AIR HANDLING UNITS. Heat Transfer Research, 2017, 48, 1313-1326.	0.9	2
67	Dark Matter Results from First 98.7 Days of Data from the PandaX-II Experiment. Physical Review Letters, 2016, 117, 121303.	2.9	501
68	Dark matter search results from the commissioning run of PandaX-II. Physical Review D, 2016, 93, .	1.6	59
69	Dynamic simulation of mixed refrigerant process for small-scale LNG plant in skid mount packages. Energy, 2016, 97, 350-358.	4.5	32
70	Simulation and experimental improvement on a small-scale Stirling thermo-acoustic engine. Frontiers in Energy, 2016, 10, 37-45.	1.2	3
71	A review of cryogenic power generation cycles with liquefied natural gas cold energy utilization. Frontiers in Energy, 2016, 10, 363-374.	1.2	42
72	Low-mass dark matter search results from full exposure of the PandaX-I experiment. Physical Review D, 2015, 92, .	1.6	45

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73	Optimal synthesis of expansion liquefaction cycle for distributed-scale LNG (liquefied natural gas) plant. <i>Energy</i> , 2015, 88, 268-280.	4.5	52
74	Effect of different working gases on the performance of a small thermoacoustic Stirling engine. <i>International Journal of Refrigeration</i> , 2015, 51, 41-51.	1.8	20
75	Design and construction of a cryogenic distillation device for removal of krypton for liquid xenon dark matter detectors. <i>Review of Scientific Instruments</i> , 2014, 85, 015116.	0.6	16
76	Performance improvement of nitrogen expansion liquefaction process for small-scale LNG plant. <i>Cryogenics</i> , 2014, 61, 111-119.	0.9	58
77	Design and Optimization of a Novel Mixed Refrigerant Cycle Integrated with NGL Recovery Process for Small-Scale LNG Plant. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 5545-5553.	1.8	68
78	A novel process for small-scale pipeline natural gas liquefaction. <i>Applied Energy</i> , 2014, 115, 17-24.	5.1	38
79	First dark matter search results from the PandaX-I experiment. <i>Science China: Physics, Mechanics and Astronomy</i> , 2014, 57, 2024-2030.	2.0	72
80	A novel conceptual design of parallel nitrogen expansion liquefaction process for small-scale LNG (liquefied natural gas) plant in skid-mount packages. <i>Energy</i> , 2014, 75, 349-359.	4.5	69
81	PandaX: a liquid xenon dark matter experiment at CJPL. <i>Science China: Physics, Mechanics and Astronomy</i> , 2014, 57, 1476-1494.	2.0	99
82	Large scale xenon purification using cryogenic distillation for dark matter detectors. <i>Journal of Instrumentation</i> , 2014, 9, P11024-P11024.	0.5	7
83	Design and optimization of natural gas liquefaction process by utilizing gas pipeline pressure energy. <i>Applied Thermal Engineering</i> , 2013, 57, 1-6.	3.0	39
84	Design and experimental investigations on a small scale traveling wave thermoacoustic engine. <i>Cryogenics</i> , 2013, 54, 10-15.	0.9	14
85	A review of recent experimental investigations and theoretical analyses for pulsating heat pipes. <i>Frontiers in Energy</i> , 2013, 7, 161-173.	1.2	23
86	Adsorption and Desorption Experimental Study of Carbon Dioxide/Methane Mixture Gas on 13X-Type Molecular Sieves. <i>Journal of Chemical Engineering of Japan</i> , 2013, 46, 811-820.	0.3	6
87	Design and construction of a guarded hot plate apparatus operating down to liquid nitrogen temperature. <i>Review of Scientific Instruments</i> , 2012, 83, 075106.	0.6	11
88	Experimental investigations and improvements for the 10 K G-M refrigerator. , 2012, , .		1
89	Investigation on the periodically oscillating pressure characteristics of the flow in the rolling pipe. <i>Ocean Engineering</i> , 2012, 55, 1-9.	1.9	7
90	Experimental investigation on pressure fluctuation of cryogenic liquid transport in pitching motion. <i>Cryogenics</i> , 2012, 52, 530-537.	0.9	5

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91	Experimental Determination of CO ₂ Solubility in Liquid CH ₄ /N ₂ Mixtures at Cryogenic Temperatures. Industrial & Engineering Chemistry Research, 2012, 51, 9403-9408.	1.8	15
92	Numerical simulation and analysis of periodically oscillating pressure characteristics of inviscid flow in a rolling pipe. Frontiers in Energy, 2012, 6, 21-28.	1.2	1
93	A simplified model of direct-contact heat transfer in desalination system utilizing LNG cold energy. Frontiers in Energy, 2012, 6, 122-128.	1.2	2
94	Computational Fluid Dynamics Simulation of ¹³ CO Distillation in Structured Packing. Chemical Engineering and Technology, 2012, 35, 334-340.	0.9	8
95	Influence of working fluid on the performance of a standing-wave thermoacoustic prime mover. Cryogenics, 2011, 51, 559-561.	0.9	28
96	Simulation and analysis on the flow field of the low temperature mini-type cold store. Heat and Mass Transfer, 2011, 47, 771-775.	1.2	6
97	Analysis of flammability limits for the liquefaction process of oxygen-bearing coal-bed methane. Applied Energy, 2011, 88, 2934-2939.	5.1	19
98	Experimental study on the performance of the labyrinth sealing displacer for 10K G-M refrigerator. Cryogenics, 2011, 51, 187-191.	0.9	2
99	Experimental study on the sealing clearance between the labyrinth sealing displacer and cylinder in the 10K G-M refrigerator. Cryogenics, 2011, 51, 203-208.	0.9	7
100	Liquefaction and impurity separation of oxygen-bearing coal-bed methane. Frontiers of Energy and Power Engineering in China, 2010, 4, 319-325.	0.4	3
101	Design and analysis of liquefaction process for offshore associated gas resources. Applied Thermal Engineering, 2010, 30, 2518-2525.	3.0	60
102	Separation of isotope ¹³ C using high-performance structured packing. Chemical Engineering and Processing: Process Intensification, 2010, 49, 255-261.	1.8	36
103	Experimental study on the low temperature regenerator packed with rectification meshes. Cryogenics, 2010, 50, 390-396.	0.9	8
104	Comparative study of oscillating flow characteristics of cryocooler regenerator at low temperatures. Frontiers of Energy and Power Engineering in China, 2009, 3, 80-84.	0.4	3
105	LNG-FPSO: Offshore LNG solution. Frontiers of Energy and Power Engineering in China, 2008, 2, 249-255.	0.4	43
106	Cryogenic design and operation of liquid helium in an electron bubble chamber towards low energy solar neutrino detectors. Cryogenics, 2007, 47, 81-88.	0.9	13
107	On the performance of copper foaming metal in the heat exchangers of pulse tube refrigerator. Cryogenics, 2007, 47, 19-24.	0.9	9
108	Detection of low energy solar neutrinos by a two-phase cryogenic e-bubble detector. Science Bulletin, 2007, 52, 3011-3015.	1.7	3

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109	Gas Purity Effect on GEM Performance in He and Ne at Low Temperatures. IEEE Transactions on Nuclear Science, 2006, 53, 2260-2263.	1.2	11
110	Performance of Stirling-type non-magnetic and non-metallic co-axial pulse tube cryocoolers for high-Tc SQUIDS operation. Cryogenics, 2005, 45, 213-223.	0.9	3
111	System design of 60 K Stirling-type coaxial pulse tube coolers for HTS RF filters. Physica C: Superconductivity and Its Applications, 2003, 386, 540-543.	0.6	2
112	Experimental measurements of the flow resistance and inductance of inertance tubes at high acoustic amplitudes. Cryogenics, 2003, 43, 1-7.	0.9	3
113	A computational model for two-stage 4K-pulse tube cooler: Part II. Predicted results. Journal of Thermal Science, 2002, 11, 74-79.	0.9	6
114	On the numerical design of a new type of 4 K GM/PT hybrid refrigerators. Cryogenics, 2002, 42, 533-542.	0.9	5
115	Computational study of a 4 K two-stage pulse tube cooler with mixed Eulerian-Lagrangian method. Cryogenics, 2001, 41, 49-57.	0.9	13
116	Thermodynamic analysis of GM-type pulse tube coolers. Cryogenics, 2001, 41, 513-520.	0.9	8
117	Multistage pulse tubes. Cryogenics, 2000, 40, 459-464.	0.9	9
118	A pulse tube refrigerator below 2 K. Cryogenics, 1999, 39, 865-869.	0.9	69
119	Nonideal-gas effect in regenerators. Cryogenics, 1999, 39, 847-851.	0.9	19
120	Numerical simulation and experimental verification of the oscillating flow in pulse tube refrigerator. Cryogenics, 1998, 38, 169-176.	0.9	35
121	Experimental study of the oscillating flow characteristics for a regenerator in a pulse tube cryocooler. Cryogenics, 1998, 38, 649-656.	0.9	51
122	Experimental study of melting heat transfer in an enclosure with three discrete protruding heat sources. Journal of Thermal Science, 1998, 7, 111-118.	0.9	4
123	Dynamic experimental study of a multi-bypass pulse tube refrigerator with two-bypass tubes. Journal of Thermal Science, 1998, 7, 61-66.	0.9	3
124	Dynamic experimental investigation of a multi-bypass pulse tube refrigerator. Cryogenics, 1997, 37, 357-361.	0.9	31
125	The experimental investigation of a two-stage pulse tube refrigerator. Cryogenics, 1996, 36, 605-609.	0.9	12
126	NUMERICAL SIMULATION OF NATURAL CONVECTION IN AN ENCLOSURE WITH DISCRETE PROTRUDING HEATERS. Numerical Heat Transfer; Part A: Applications, 1996, 30, 207-218.	1.2	22

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127	Analysis of solidification in the presence of high rayleigh number convection in an enclosure. Journal of Thermal Science, 1994, 3, 173-176.	0.9	1