

Hui Tong Chua

List of Publications by Year in descending order

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110
papers

3,569
citations

126708

33
h-index

143772

57
g-index

116
all docs

116
docs citations

116
times ranked

2192
citing authors

#	ARTICLE	IF	CITATIONS
1	A comparison of ground and air source heat pump performance for domestic applications: A case study in Perth, Australia. <i>International Journal of Energy Research</i> , 2021, 45, 20686-20699.	2.2	8
2	Methane production test of the anaerobic sludge from rice parboiling industries with the addition of biodiesel glycerol from rice bran oil in Brazil. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 149, 111331.	8.2	8
3	A new zero-liquid-discharge brine concentrator using a Cascaded Fluidised Bed Ice Slurry Generator. <i>Desalination</i> , 2021, 520, 115344.	4.0	7
4	Activated Carbon Based Supercapacitors with a Reduced Graphene Oxide Additive: Preparation and Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 4073-4083.	0.9	7
5	An industrial application of low-grade sensible waste heat driven seawater desalination: A case study. <i>Desalination</i> , 2019, 470, 114055.	4.0	13
6	Thermal performance prediction of outdoor swimming pools. <i>Building and Environment</i> , 2019, 160, 106167.	3.0	16
7	Panorama of boron nitride nanostructures via lamp ablation. <i>Nano Research</i> , 2019, 12, 557-562.	5.8	4
8	Thermo-economic analysis of low-grade heat driven multi-effect distillation based desalination processes. <i>Desalination</i> , 2018, 448, 36-48.	4.0	34
9	A novel low grade heat driven process to re-concentrate process liquor in alumina refineries. <i>Hydrometallurgy</i> , 2017, 170, 34-42.	1.8	5
10	The merits of plasmonic desalination. <i>Nature Photonics</i> , 2017, 11, 70-70.	15.6	11
11	Techno-economic analysis of geothermal desalination using Hot Sedimentary Aquifers: A pre-feasibility study for Western Australia. <i>Desalination</i> , 2017, 404, 167-181.	4.0	50
12	Boosted Multi-Effect Distillation Pilot Plant. , 2017, , 27-41.		1
13	Low Grade Sensible Heat-Driven Distillation. , 2017, , 19-26.		2
14	Mathematical Simulation. , 2017, , 43-80.		0
15	Application of Novel Low Grade Heat-Driven Distillation to Seawater Desalination. , 2017, , 105-124.		0
16	Pumping Power Analysis. , 2017, , 81-85.		0
17	Introduction to Desalination. , 2017, , 1-17.		8
18	Thermo-Economic Analysis. , 2017, , 93-104.		0

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19	Application of Novel Low Grade Heat-Driven Distillation in Alumina Refineries. , 2017, , 125-161.		0
20	Waste Heat Performance Ratio. , 2017, , 87-92.		0
21	New MED based desalination process for low grade waste heat. Desalination, 2016, 395, 57-71.	4.0	46
22	Thermodynamic perspective for the specific energy consumption of seawater desalination. Desalination, 2016, 386, 13-18.	4.0	40
23	A novel flash boosted evaporation process for alumina refineries. Applied Thermal Engineering, 2016, 94, 375-384.	3.0	14
24	Performance Study of a Four-Bed Silica Gel-Water Adsorption Chiller with the Passive Heat Recovery Scheme. Mathematical Problems in Engineering, 2015, 2015, 1-10.	0.6	6
25	Performance simulation of multi-bed silica gel-water adsorption chillers. International Journal of Refrigeration, 2015, 52, 32-41.	1.8	24
26	Boosted Multi-Effect Distillation for sensible low-grade heat sources: A comparison with feed pre-heating Multi-Effect Distillation. Desalination, 2015, 366, 32-46.	4.0	35
27	Facile synthesis of electrochemically active Pt nanoparticle decorated carbon nano onions. New Journal of Chemistry, 2015, 39, 915-920.	1.4	15
28	Application of the Boosted MED process for low-grade heat sources " A pilot plant. Desalination, 2015, 366, 47-58.	4.0	19
29	Thermo-economic analysis of two novel low grade sensible heat driven desalination processes. Desalination, 2015, 365, 316-328.	4.0	42
30	Synthesis of few-layer graphene by lamp ablation. Carbon, 2015, 94, 349-351.	5.4	10
31	Deep geothermal: The "Moon Landing"™ mission in the unconventional energy and minerals space. Journal of Earth Science (Wuhan, China), 2015, 26, 2-10.	1.1	13
32	Geothermal air conditioning: typical applications using deep-warm and shallow-cool reservoirs for cooling in Perth, Western Australia. International Journal for Simulation and Multidisciplinary Design Optimization, 2014, 5, A10.	0.6	0
33	Carbon nanofibres from fructose using a light-driven high-temperature spinning disc processor. Chemical Communications, 2014, 50, 1478-1480.	2.2	13
34	Predicting the Integral Heat of Adsorption for Gas Physisorption on Microporous and Mesoporous Adsorbents. Journal of Physical Chemistry C, 2014, 118, 8350-8358.	1.5	15
35	A novel process for low grade heat driven desalination. Desalination, 2014, 351, 202-212.	4.0	58
36	Thermodynamic optimisation of multi effect distillation driven by sensible heat sources. Desalination, 2014, 336, 160-167.	4.0	43

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37	Low-grade waste heat driven desalination technology. International Journal for Simulation and Multidisciplinary Design Optimization, 2014, 5, A02.	0.6	15
38	Entropic Bounds for Multi-Scale and Multi-Physics Coupling in Earth Sciences. Understanding Complex Systems, 2014, , 323-335.	0.3	5
39	High-yield synthesis of silicon carbide nanowires by solar and lamp ablation. Nanotechnology, 2013, 24, 335603.	1.3	17
40	Application of geothermal absorption air-conditioning system: A case study. Applied Thermal Engineering, 2013, 50, 71-80.	3.0	42
41	Shear flow assisted decoration of carbon nano-onions with platinum nanoparticles. Chemical Communications, 2013, 49, 5171.	2.2	32
42	Predicting isosteric heats for gas adsorption. Physical Chemistry Chemical Physics, 2013, 15, 473-482.	1.3	32
43	Modeling and Real-Time Control of Multizone Thermal Processing System for Photoresist Processing. Industrial & Engineering Chemistry Research, 2013, 52, 4805-4814.	1.8	2
44	Methane desorption and adsorption measurements on activated carbon in 281-343 K and pressures to 1.2 MPa. Journal of Thermal Analysis and Calorimetry, 2012, 110, 1475-1485.	2.0	8
45	Light-driven high-temperature continuous-flow synthesis of TiO ₂ nano-anatase. Chemical Engineering Journal, 2012, 211-212, 195-199.	6.6	10
46	Microfluidic size selective growth of palladium nano-particles on carbon nano-onions. Chemical Communications, 2012, 48, 10102.	2.2	50
47	Low grade heat driven multi-effect distillation technology. International Journal of Heat and Mass Transfer, 2011, 54, 5497-5503.	2.5	66
48	Generating Hydrogen Gas from Methane with Carbon Captured as Pure Spheroidal Nanomaterials. Chemistry - A European Journal, 2011, 17, 9188-9192.	1.7	16
49	Time-dependent, irreversible entropy production and geodynamics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 285-300.	1.6	23
50	Numerical simulation of a supercritical CO ₂ geothermosiphon. International Communications in Heat and Mass Transfer, 2010, 37, 1447-1451.	2.9	24
51	Hydrogen storage in Pd-Ni doped defective carbon nanotubes through the formation of CH (x= 1, 2). Carbon, 2010, 48, 3250-3255.	5.4	38
52	Adsorption Measurements of Methane on Activated Carbon in the Temperature Range (281 to 343) K and Pressures to 1.2 MPa. Journal of Chemical & Engineering Data, 2010, 55, 2700-2706.	1.0	44
53	Equipment Design and Control of Advanced Thermal-Processing Module in Lithography. IEEE Transactions on Industrial Electronics, 2010, 57, 1112-1119.	5.2	14
54	Integrated bake/chill system for across-wafer temperature uniformity control in photoresist processing. Journal of Vacuum Science & Technology B, 2009, 27, 1211.	1.3	2

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55	Methane Catalytic Cracking to Make CO ₂ Free Hydrogen and Carbons (Nanotubes,) Tj ETQq1 1 0.784314 rgBT /Overlock	0.3	0
56	A heater plate assisted bake/chill system for photoresist processing in photolithography. Applied Thermal Engineering, 2009, 29, 985-997.	3.0	2
57	The direct decomposition of NO over the La ₂ CuO ₄ nanofiber catalyst. Journal of Solid State Chemistry, 2008, 181, 2804-2807.	1.4	26
58	In-situ real-time temperature control of baking systems in lithography. Proceedings of SPIE, 2008, , .	0.8	0
59	Equipment design and control of advanced thermal processing system in lithography. , 2007, , .		3
60	A heater plate assisted integrated bake/chill system for photoresist processing. , 2007, , .		0
61	A comparative evaluation of two different heat-recovery schemes as applied to a two-bed adsorption chiller. International Journal of Heat and Mass Transfer, 2007, 50, 433-443.	2.5	37
62	Two bed silica gel-water adsorption chillers: An effectual lumped parameter model. International Journal of Refrigeration, 2007, 30, 1417-1426.	1.8	79
63	A thermogravimetric analyzer for condensable gas adsorption under subatmospheric conditions. Journal of Thermal Analysis and Calorimetry, 2007, 90, 935-940.	2.0	11
64	A lamp thermoelectricity based integrated bake/chill system for photoresist processing. International Journal of Heat and Mass Transfer, 2007, 50, 580-594.	2.5	6
65	A lamp thermoelectricity based integrated bake/chill system for advanced photoresist processing. , 2006, , .		0
66	A numerical study of the Hampson-type miniature Joule-Thomson cryocooler. International Journal of Heat and Mass Transfer, 2006, 49, 582-593.	2.5	39
67	Growth of La ₂ CuO ₄ nanofibers under a mild condition by using single walled carbon nanotubes as templates. Journal of Solid State Chemistry, 2006, 179, 2036-2040.	1.4	11
68	Experimental investigation of silica gel-water adsorption chillers with and without a passive heat recovery scheme. International Journal of Refrigeration, 2005, 28, 756-765.	1.8	77
69	NANOTIPS COLD-END CONTACT FOR MICROCOOLING SYSTEMS. International Journal of Nanoscience, 2005, 04, 701-707.	0.4	0
70	A thermoelectricity-lamp based integrated bake/chill system for photoresist processing. , 2005, , .		0
71	Thermionic and tunneling cooling thermodynamics. Applied Physics Letters, 2004, 84, 3999-4001.	1.5	10
72	Resolution analysis of atomic force microscopy using temporal phase modulation interferometry. Optical Engineering, 2004, 43, 75.	0.5	3

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73	Transient modeling of a two-bed silica gel-water adsorption chiller. International Journal of Heat and Mass Transfer, 2004, 47, 659-669.	2.5	162
74	Waste heat driven dual-mode, multi-stage, multi-bed regenerative adsorption system. International Journal of Refrigeration, 2003, 26, 749-757.	1.8	210
75	Thermodynamic Property Fields of an Adsorbate-Adsorbent System. Langmuir, 2003, 19, 2254-2259.	1.6	20
76	Temperature-entropy formulation of thermoelectric thermodynamic cycles. Physical Review E, 2002, 65, 056111.	0.8	31
77	Adsorption Characteristics of Silica Gel + Water Systems. Journal of Chemical & Engineering Data, 2002, 47, 1177-1181.	1.0	223
78	Optimization of two-stage thermoelectric coolers with two design configurations. Energy Conversion and Management, 2002, 43, 2041-2052.	4.4	57
79	Thermodynamic modeling of an ammonia-water absorption chiller. International Journal of Refrigeration, 2002, 25, 896-906.	1.8	47
80	The electro-adsorption chiller: a miniaturized cooling cycle with applications to micro-electronics. International Journal of Refrigeration, 2002, 25, 1025-1033.	1.8	47
81	On minimizing the heat leak of current leads in cryogenic vacuum systems. Cryogenics, 2002, 42, 779-785.	0.9	8
82	A general model for studying effects of interface layers on thermoelectric devices performance. International Journal of Heat and Mass Transfer, 2002, 45, 5159-5170.	2.5	71
83	Optimization and thermodynamic understanding of conduction-cooled Peltier current leads. Cryogenics, 2002, 42, 141-145.	0.9	19
84	The maximum temperature difference and polar characteristic of two-stage thermoelectric coolers. Cryogenics, 2002, 42, 273-278.	0.9	116
85	Design of a scalable multiprocessor architecture and its simulation. Journal of Systems and Software, 2001, 58, 135-152.	3.3	0
86	Multi-bed regenerative adsorption chiller improving the utilization of waste heat and reducing the chilled water outlet temperature fluctuation. International Journal of Refrigeration, 2001, 24, 124-136.	1.8	100
87	Experimental investigation of the silica gel-water adsorption isotherm characteristics. Applied Thermal Engineering, 2001, 21, 1631-1642.	3.0	289
88	General thermodynamic framework for understanding temperature-entropy diagram of batchwise operating thermodynamic cooling cycles. Journal of Applied Physics, 2001, 89, 5151-5158.	1.1	11
89	Resistance of Blended Cement Pastes to Leaching in Distilled Water at Ambient and Higher Temperatures. ACI Materials Journal, 2001, 98, .	0.3	1
90	Improved thermodynamic property fields of LiBr-H ₂ O solution. International Journal of Refrigeration, 2000, 23, 412-429.	1.8	112

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91	A general thermodynamic framework for understanding the behaviour of absorption chillers. International Journal of Refrigeration, 2000, 23, 491-507.	1.8	28
92	How varying condenser coolant flow rate affects chiller performance: thermodynamic modeling and experimental confirmation. Applied Thermal Engineering, 2000, 20, 1149-1159.	3.0	29
93	Temperature-entropy diagram for an irreversible absorption refrigeration cycle. Journal of Applied Physics, 2000, 88, 446-452.	1.1	4
94	Modeling the performance of two-bed, silica gel-water adsorption chillers. International Journal of Refrigeration, 1999, 22, 194-204.	1.8	232
95	Thermodynamic Modeling of Absorption Chiller and Comparison with Experiments. Heat Transfer Engineering, 1999, 20, 42-51.	1.2	15
96	Simple thermodynamic diagrams for real refrigeration systems. Journal of Applied Physics, 1999, 85, 641-646.	1.1	4
97	Thermodynamic analysis of absorption chillers: internal dissipation and process average temperature. Applied Thermal Engineering, 1998, 18, 671-682.	3.0	27
98	Entropy generation analysis of two-bed, silica gel-water, non-regenerative adsorption chillers. Journal Physics D: Applied Physics, 1998, 31, 1471-1477.	1.3	40
99	The role of internal dissipation and process average temperature in chiller performance and diagnostics. Journal of Applied Physics, 1998, 83, 1831-1836.	1.1	23
100	Experimental verification of a diagnostic model for reciprocating chillers. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 1997, 211, 259-265.	1.4	2
101	Diagnostics and optimization of reciprocating chillers: theory and experiment. Applied Thermal Engineering, 1997, 17, 263-276.	3.0	45
102	On the modeling of absorption chillers with external and internal irreversibilities. Applied Thermal Engineering, 1997, 17, 413-425.	3.0	17
103	Optimizing chiller operation based on finite-time thermodynamics: universal modeling and experimental confirmation. International Journal of Refrigeration, 1997, 20, 191-200.	1.8	51
104	Entropy production analysis and experimental confirmation of absorption systems. International Journal of Refrigeration, 1997, 20, 179-190.	1.8	23
105	Experimental study of the fundamental properties of reciprocating chillers and their relation to thermodynamic modeling and chiller design. International Journal of Heat and Mass Transfer, 1996, 39, 2195-2204.	2.5	49
106	Centrifugal chillers: Thermodynamic modelling and a diagnostic case study. International Journal of Refrigeration, 1995, 18, 253-257.	1.8	108
107	Theoretical and experimental analysis of an absorption chiller. International Journal of Refrigeration, 1994, 17, 351-358.	1.8	14
108	Performance Evaluation of Centrifugal Chillers in an Air-Conditioning Plant with The Building Automation System (BAS). Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 1994, 208, 249-255.	0.8	12

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109	A two-stage cuboid-styled thermoelectric cooler with switched polarity. , 0, , .		4
110	Fabrication nanotips array for thermoelectric collers using nercom process. , 0, , .		0