

Justin Chiu

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,130
citations

394421

19
h-index

395702

33
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44
all docs

44
docs citations

44
times ranked

954
citing authors

#	ARTICLE	IF	CITATIONS
1	Polyols as phase change materials for surplus thermal energy storage. <i>Applied Energy</i> , 2016, 162, 1439-1452.	10.1	111
2	Numerical investigation of melting in a cavity with vertically oriented fins. <i>Applied Energy</i> , 2019, 235, 1027-1040.	10.1	100
3	Multistage latent heat cold thermal energy storage design analysis. <i>Applied Energy</i> , 2013, 112, 1438-1445.	10.1	81
4	Phase equilibrium in the design of phase change materials for thermal energy storage: State-of-the-art. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 73, 558-581.	16.4	79
5	Submerged finned heat exchanger latent heat storage design and its experimental verification. <i>Applied Energy</i> , 2012, 93, 507-516.	10.1	71
6	Stratification analysis in packed bed thermal energy storage systems. <i>Applied Energy</i> , 2013, 109, 476-487.	10.1	71
7	Comparative study of different numerical models of packed bed thermal energy storage systems. <i>Applied Thermal Engineering</i> , 2013, 50, 384-392.	6.0	60
8	Experimental investigation on cylindrically macro-encapsulated latent heat storage for space heating applications. <i>Energy Conversion and Management</i> , 2019, 182, 166-177.	9.2	45
9	Industrial surplus heat transportation for use in district heating. <i>Energy</i> , 2016, 110, 139-147.	8.8	42
10	Active free cooling optimization with thermal energy storage in Stockholm. <i>Applied Energy</i> , 2013, 109, 523-529.	10.1	39
11	Performance analysis of packed bed latent heat storage system for high-temperature thermal energy storage using pellets composed of micro-encapsulated phase change material. <i>Energy</i> , 2022, 238, 121746.	8.8	34
12	Assessing the techno-economic impact of low-temperature subnets in conventional district heating networks. <i>Energy Procedia</i> , 2017, 116, 260-272.	1.8	31
13	Assessing sizing optimality of OFF-GRID AC-linked solar PV-PEM systems for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 27303-27325.	7.1	29
14	The experimental phase diagram study of the binary polyols system erythritol-xylitol. <i>Solar Energy Materials and Solar Cells</i> , 2018, 174, 248-262.	6.2	27
15	Experimental phase diagram of the dodecane-tridecane system as phase change material in cold storage. <i>International Journal of Refrigeration</i> , 2017, 82, 130-140.	3.4	25
16	Latent heat storage integration into heat pump based heating systems for energy-efficient load shifting. <i>Energy Conversion and Management</i> , 2021, 236, 114042.	9.2	24
17	Experimental investigation of solidification and melting in a vertically finned cavity. <i>Applied Thermal Engineering</i> , 2021, 198, 117459.	6.0	22
18	Thermal behavior of a sodium acetate trihydrate-based PCM: T-history and full-scale tests. <i>Applied Energy</i> , 2020, 261, 114432.	10.1	21

#	ARTICLE	IF	CITATIONS
19	Hydroxyl group functionalized graphene oxide nanosheets as additive for improved erythritol latent heat storage performance: A comprehensive evaluation on the benefits and challenges. <i>Solar Energy Materials and Solar Cells</i> , 2020, 215, 110658.	6.2	20
20	Experimental investigation of thermo-physical properties of n-octadecane and n-eicosane. <i>International Journal of Heat and Mass Transfer</i> , 2020, 161, 120285.	4.8	19
21	Experimental and numerical investigation of a latent heat thermal energy storage unit with ellipsoidal macro-encapsulation. <i>Energy</i> , 2022, 238, 121828.	8.8	19
22	Thermal Energy Storage Materials (TESMs)â€”What Does It Take to Make Them Fly?. <i>Crystals</i> , 2021, 11, 1276.	2.2	18
23	Heat transfer model for energy-active windows â€” An evaluation of efficient reuse of waste heat in buildings. <i>Renewable Energy</i> , 2020, 162, 2318-2329.	8.9	15
24	Erythritol, glycerol, their blends, and olive oil, as sustainable phase change materials. <i>Energy Procedia</i> , 2017, 135, 249-262.	1.8	14
25	Thermal conductivity measurement of erythritol, xylitol, and their blends for phase change material design: A methodological study. <i>International Journal of Energy Research</i> , 2019, 43, 1785-1801.	4.5	14
26	Polyols as Phase Change Materials for Low-grade Excess Heat Storage. <i>Energy Procedia</i> , 2014, 61, 664-669.	1.8	13
27	Feasibility and economic analysis of solution transportation absorption system for long-distance thermal transportation under low ambient temperature. <i>Energy Conversion and Management</i> , 2019, 196, 793-806.	9.2	13
28	Numerical thermal performance investigation of a latent heat storage prototype toward effective use in residential heating systems. <i>Applied Energy</i> , 2020, 278, 115631.	10.1	11
29	Techno economic analysis of thermochemical energy storage and transport system utilizing â€œZeolite Boilerâ€” case study in Sweden. <i>Energy Procedia</i> , 2018, 149, 102-111.	1.8	9
30	Performance evaluation of three latent heat storage designs for cogeneration applications. <i>Solar Energy</i> , 2021, 225, 444-462.	6.1	9
31	Thermal Energy Storage For Gas Turbine Power Augmentation. <i>Journal of the Global Power and Propulsion Society</i> , 2019, 3, 592-608.	0.8	9
32	Thermodynamic assessment of binary erythritol-xylitol phase diagram for phase change materials design. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2018, 60, 29-36.	1.6	8
33	Development of Novel Microencapsulated Hybrid Latent/Chemical Heat Storage Material. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 14700-14710.	6.7	8
34	Polyvinylpyrrolidone (PVP)-enabled significant suppression of supercooling of erythritol for medium-temperature thermal energy storage. <i>Journal of Energy Storage</i> , 2022, 46, 103915.	8.1	7
35	Industrial Surplus Heat Storage in Smart Cities. , 2015, , .		4
36	Energetic and exergetic analysis of alternative low-temperature based district heating substations arrangements. <i>International Journal of Thermodynamics</i> , 2016, 19, 71.	1.0	4

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37	Numerical Investigation of Latent Thermal Storage in a Compact Heat Exchanger Using Mini-Channels. Applied Sciences (Switzerland), 2021, 11, 5985.	2.5	2
38	Techno-Economic Comparative Analysis of Innovative Combined Cycle Power Plant Layouts Integrated With Heat Pumps and Thermal Energy Storage. , 2019, , .		1
39	Experimental analysis of submerged coil and encapsulated slab latent heat storage. Applied Thermal Engineering, 2022, 209, 118259.	6.0	1
40	Advanced Thermosyphon Cooling With Nanoporous Structured Mini Channel Evaporators. , 2009, , .		0
41	INPATH " TES: Innovative pathways to PhD research in thermal energy storage. , 2017, , .		0
42	Thermal energy storage in combined cycle power plants: comparing finite volume to finite element methods. E3S Web of Conferences, 2019, 113, 01001.	0.5	0
43	Pathways to a European PhD for Thermal Energy Storage. International Journal of Learning and Teaching, 2017, , 189-193.	0.1	0
44	State of the Art in Hydrogen Liquefaction. , 2019, , .		0