Justin Chiu

List of Publications by Year
in descending order

44	1,130	394421 19	395702 33
papers	citations	h-index	g-index

44	44	44	954
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Experimental and numerical investigation of a latent heat thermal energy storage unit with ellipsoidal macro-encapsulation. Energy, 2022, 238, 121828.	8.8	19
2	Performance analysis of packed bed latent heat storage system for high-temperature thermal energy storage using pellets composed of micro-encapsulated phase change material. Energy, 2022, 238, 121746.	8.8	34
3	Polyvinylpyrrolidone (PVP)-enabled significant suppression of supercooling of erythritol for medium-temperature thermal energy storage. Journal of Energy Storage, 2022, 46, 103915.	8.1	7
4	Experimental analysis of submerged coil and encapsulated slab latent heat storage. Applied Thermal Engineering, 2022, 209, 118259.	6.0	1
5	Assessing sizing optimality of OFF-GRID AC-linked solar PV-PEM systems for hydrogen production. International Journal of Hydrogen Energy, 2022, 47, 27303-27325.	7.1	29
6	Latent heat storage integration into heat pump based heating systems for energy-efficient load shifting. Energy Conversion and Management, 2021, 236, 114042.	9.2	24
7	Numerical Investigation of Latent Thermal Storage in a Compact Heat Exchanger Using Mini-Channels. Applied Sciences (Switzerland), 2021, 11, 5985.	2.5	2
8	Performance evaluation of three latent heat storage designs for cogeneration applications. Solar Energy, 2021, 225, 444-462.	6.1	9
9	Experimental investigation of solidification and melting in a vertically finned cavity. Applied Thermal Engineering, 2021, 198, 117459.	6.0	22
10	Thermal Energy Storage Materials (TESMs)â€"What Does It Take to Make Them Fly?. Crystals, 2021, 11, 1276.	2.2	18
11	Heat transfer model for energy-active windows â€“ An evaluation of efficient reuse of waste heat in buildings. Renewable Energy, 2020, 162, 2318-2329.	8.9	15
12	Development of Novel Microencapsulated Hybrid Latent/Chemical Heat Storage Material. ACS Sustainable Chemistry and Engineering, 2020, 8, 14700-14710.	6.7	8
13	Numerical thermal performance investigation of a latent heat storage prototype toward effective use in residential heating systems. Applied Energy, 2020, 278, 115631.	10.1	11
14	Experimental investigation of thermo-physical properties of n-octadecane and n-eicosane. International Journal of Heat and Mass Transfer, 2020, 161, 120285.	4.8	19
15	Hydroxyl group functionalized graphene oxide nanosheets as additive for improved erythritol latent heat storage performance: A comprehensive evaluation on the benefits and challenges. Solar Energy Materials and Solar Cells, 2020, 215, 110658.	6.2	20
16	Thermal behavior of a sodium acetate trihydrate-based PCM: T-history and full-scale tests. Applied Energy, 2020, 261, 114432.	10.1	21
17	Feasibility and economic analysis of solution transportation absorption system for long-distance thermal transportation under low ambient temperature. Energy Conversion and Management, 2019, 196, 793-806.	9.2	13
18	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

#	Article	IF	Citations
19	Thermal conductivity measurement of erythritol, xylitol, and their blends for phase change material design: A methodological study. International Journal of Energy Research, 2019, 43, 1785-1801.	4.5	14
20	Numerical investigation of melting in a cavity with vertically oriented fins. Applied Energy, 2019, 235, 1027-1040.	10.1	100
21	Experimental investigation on cylindrically macro-encapsulated latent heat storage for space heating applications. Energy Conversion and Management, 2019, 182, 166-177.	9.2	45
22	Techno-Economic Comparative Analysis of Innovative Combined Cycle Power Plant Layouts Integrated With Heat Pumps and Thermal Energy Storage. , 2019, , .		1
23	Thermal Energy Storage For Gas Turbine Power Augmentation. Journal of the Global Power and Propulsion Society, 2019, 3, 592-608.	0.8	9
24	State of the Art in Hydrogen Liquefaction. , 2019, , .		0
25	Thermodynamic assessment of binary erythritol-xylitol phase diagram for phase change materials design. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2018, 60, 29-36.	1.6	8
26	The experimental phase diagram study of the binary polyols system erythritol-xylitol. Solar Energy Materials and Solar Cells, 2018, 174, 248-262.	6.2	27
27	Techno economic analysis of thermochemical energy storage and transport system utilizing â€œZeolite Boilerâ€ case study in Sweden. Energy Procedia, 2018, 149, 102-111.	1.8	9
28	Phase equilibrium in the design of phase change materials for thermal energy storage: State-of-the-art. Renewable and Sustainable Energy Reviews, 2017, 73, 558-581.	16.4	79
29	INPATH â€" TES: Innovative pathways to PhD research in thermal energy storage. , 2017, , .		0
30	Experimental phase diagram of the dodecaneâ€"tridecane system as phase change material in cold storage. International Journal of Refrigeration, 2017, 82, 130-140.	3.4	25
31	Assessing the techno-economic impact of low-temperature subnets in conventional district heating networks. Energy Procedia, 2017, 116, 260-272.	1.8	31
32	Erythritol, glycerol, their blends, and olive oil, as sustainable phase change materials. Energy Procedia, 2017, 135, 249-262.	1.8	14
33	Pathways to a European PhD for Thermal Energy Storage. International Journal of Learning and Teaching, 2017, , 189-193.	0.1	0
34	Industrial surplus heat transportation for use in district heating. Energy, 2016, 110, 139-147.	8.8	42
35	Polyols as phase change materials for surplus thermal energy storage. Applied Energy, 2016, 162, 1439-1452.	10.1	111
36	Energetic and exergetic analysis of alternative low-temperature based district heating substations arrangements. International Journal of Thermodynamics, 2016, 19, 71.	1.0	4

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37	Industrial Surplus Heat Storage in Smart Cities. , 2015, , .		4
38	Polyols as Phase Change Materials for Low-grade Excess Heat Storage. Energy Procedia, 2014, 61, 664-669.	1.8	13
39	Multistage latent heat cold thermal energy storage design analysis. Applied Energy, 2013, 112, 1438-1445.	10.1	81
40	Stratification analysis in packed bed thermal energy storage systems. Applied Energy, 2013, 109, 476-487.	10.1	71
41	Active free cooling optimization with thermal energy storage in Stockholm. Applied Energy, 2013, 109, 523-529.	10.1	39
42	Comparative study of different numerical models of packed bed thermal energy storage systems. Applied Thermal Engineering, 2013, 50, 384-392.	6.0	60
43	Submerged finned heat exchanger latent heat storage design and its experimental verification. Applied Energy, 2012, 93, 507-516.	10.1	71
44	Advanced Thermosyphon Cooling With Nanoporous Structured Mini Channel Evaporators. , 2009, , .		0