

Viktoria Martin

List of Publications by Year in descending order

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52
papers

2,272
citations

236925

25
h-index

223800

46
g-index

54
all docs

54
docs citations

54
times ranked

2160
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Numerical Investigation of Latent Thermal Storage in a Compact Heat Exchanger Using Mini-Channels. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5985.	2.5	2
3	Experimental investigation of solidification and melting in a vertically finned cavity. <i>Applied Thermal Engineering</i> , 2021, 198, 117459.	6.0	22
4	The Potential Contribution of Decentralized Anaerobic Digestion towards Urban Biowaste Recovery Systems: A Scoping Review. <i>Sustainability</i> , 2021, 13, 13435.	3.2	8
5	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
6	Forecasting Wastewater Temperature Based on Artificial Neural Network (ANN) Technique and Monte Carlo Sensitivity Analysis. <i>Sustainability</i> , 2020, 12, 6386.	3.2	34
7	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
8	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
9	Numerical investigation of melting in a cavity with vertically oriented fins. <i>Applied Energy</i> , 2019, 235, 1027-1040.	10.1	100
10	State of the Art in Hydrogen Liquefaction. , 2019, , .		0
11	Numerical Design of a Reactor for an Ammonia-SrCl ₂ Thermochemical Storage System. , 2019, , .		2
12	The choice of operating strategy for a complex polygeneration system: A case study for a residential building in Italy. <i>Energy Conversion and Management</i> , 2018, 163, 278-291.	9.2	36
13	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
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	Techno economic analysis of thermochemical energy storage and transport system utilizing "Zeolite Boiler" case study in Sweden. <i>Energy Procedia</i> , 2018, 149, 102-111.	1.8	9
16	Design Optimization of a Small-Scale Polygeneration Energy System in Different Climate Zones in Iran. <i>Energies</i> , 2018, 11, 1115.	3.1	10
17	Design Optimization of a Complex Polygeneration System for a Hospital. <i>Energies</i> , 2018, 11, 1071.	3.1	11
18	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

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19	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
20	Erythritol, glycerol, their blends, and olive oil, as sustainable phase change materials. <i>Energy Procedia</i> , 2017, 135, 249-262.	1.8	14
21	Energy analysis of solar blind system concept using energy system modelling. <i>Solar Energy</i> , 2016, 139, 297-308.	6.1	17
22	A parametric analysis on the regeneration performance of silica gel in a proposed comfort provision strategy for a typical office space in Harare, Zimbabwe. <i>Energy and Buildings</i> , 2016, 126, 104-112.	6.7	1
23	Industrial surplus heat transportation for use in district heating. <i>Energy</i> , 2016, 110, 139-147.	8.8	42
24	Polyols as phase change materials for surplus thermal energy storage. <i>Applied Energy</i> , 2016, 162, 1439-1452.	10.1	111
25	Industrial Surplus Heat Storage in Smart Cities. , 2015, , .		4
26	CO 2 mitigation accounting for Thermal Energy Storage (TES) case studies. <i>Applied Energy</i> , 2015, 155, 365-377.	10.1	58
27	Combining thermal energy storage with buildings – a review. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 42, 1305-1325.	16.4	274
28	Polyols as Phase Change Materials for Low-grade Excess Heat Storage. <i>Energy Procedia</i> , 2014, 61, 664-669.	1.8	13
29	Solar Blind System- Solar Energy Utilization and Climate Mitigation in Glazed Buildings. <i>Energy Procedia</i> , 2014, 57, 2023-2032.	1.8	16
30	Energy management and CO2 mitigation using phase change materials (PCM) for thermal energy storage (TES) in cold storage and transport. <i>International Journal of Refrigeration</i> , 2014, 42, 26-35.	3.4	64
31	Energy management strategies for commercial greenhouses. <i>Applied Energy</i> , 2014, 114, 880-888.	10.1	92
32	Wind Resource Assessment in Europe Using Energy. <i>Journal of Environmental Accounting and Management</i> , 2014, 2, 347-366.	0.5	1
33	Multistage latent heat cold thermal energy storage design analysis. <i>Applied Energy</i> , 2013, 112, 1438-1445.	10.1	81
34	Stratification analysis in packed bed thermal energy storage systems. <i>Applied Energy</i> , 2013, 109, 476-487.	10.1	71
35	Active free cooling optimization with thermal energy storage in Stockholm. <i>Applied Energy</i> , 2013, 109, 523-529.	10.1	39
36	Thermal energy storage strategies for effective closed greenhouse design. <i>Applied Energy</i> , 2013, 109, 337-343.	10.1	96

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37	Energy analysis and thermoeconomic assessment of the closed greenhouse – The largest commercial solar building. Applied Energy, 2013, 102, 1256-1266.	10.1	84
38	Comparative study of different numerical models of packed bed thermal energy storage systems. Applied Thermal Engineering, 2013, 50, 384-392.	6.0	60
39	Energy management in horticultural applications through the closed greenhouse concept, state of the art. Renewable and Sustainable Energy Reviews, 2012, 16, 5087-5100.	16.4	109
40	Decentralized cooling in district heating network: System simulation and parametric study. Applied Energy, 2012, 92, 175-184.	10.1	22
41	Submerged finned heat exchanger latent heat storage design and its experimental verification. Applied Energy, 2012, 93, 507-516.	10.1	71
42	Energy Analysis and Thermoeconomic Assessment of the Closed Greenhouse: The Largest Commercial Solar Building. , 2011, , .		0
43	Decentralised cooling in district heating network: Monitoring results and calibration of simulation model. Energy and Buildings, 2011, 43, 3311-3321.	6.7	11
44	Thermally driven cooling coupled with municipal solid waste-fired power plant: Application of combined heat, cooling and power in tropical urban areas. Applied Energy, 2011, 88, 1532-1542.	10.1	33
45	Direct contact PCM – water cold storage. Applied Energy, 2010, 87, 2652-2659.	10.1	86
46	Compact Heat Storage for Solar Heating Systems. Journal of Solar Energy Engineering, Transactions of the ASME, 2009, 131, .	1.8	6
47	Analysis of Heat-Driven Cooling Production Coupled to Power Generation for Increased Electrical Yield. , 2004, , 395.		0
48	Phase transition temperature ranges and storage density of paraffin wax phase change materials. Energy, 2004, 29, 1785-1804.	8.8	196
49	Feasibility Study of Absorption Chillers With a Low Temperature Heat Source. , 2004, , .		0
50	Liquid – solid phase equilibrium study of tetradecane and hexadecane binary mixtures as phase change materials (PCMs) for comfort cooling storage. Fluid Phase Equilibria, 2003, 212, 97-109.	2.5	64
51	Effectiveness of Heat and Mass Transfer Processes in a Packed Bed Liquid Desiccant Dehumidifier/Regenerator. HVAC and R Research, 2000, 6, 21-39.	0.6	91
52	Combined Production of Power and Alternative Fuels in Connection with Pulp Mills. , 1999, , .		3