

# 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	Combining thermal energy storage with buildings – a review. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 42, 1305-1325.	16.4	274
2	Phase transition temperature ranges and storage density of paraffin wax phase change materials. <i>Energy</i> , 2004, 29, 1785-1804.	8.8	196
3	Polyols as phase change materials for surplus thermal energy storage. <i>Applied Energy</i> , 2016, 162, 1439-1452.	10.1	111
4	Energy management in horticultural applications through the closed greenhouse concept, state of the art. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 5087-5100.	16.4	109
5	Numerical investigation of melting in a cavity with vertically oriented fins. <i>Applied Energy</i> , 2019, 235, 1027-1040.	10.1	100
6	Thermal energy storage strategies for effective closed greenhouse design. <i>Applied Energy</i> , 2013, 109, 337-343.	10.1	96
7	Energy management strategies for commercial greenhouses. <i>Applied Energy</i> , 2014, 114, 880-888.	10.1	92
8	Effectiveness of Heat and Mass Transfer Processes in a Packed Bed Liquid Desiccant Dehumidifier/Regenerator. <i>HVAC and R Research</i> , 2000, 6, 21-39.	0.6	91
9	Direct contact PCM–water cold storage. <i>Applied Energy</i> , 2010, 87, 2652-2659.	10.1	86
10	Energy analysis and thermoeconomic assessment of the closed greenhouse – The largest commercial solar building. <i>Applied Energy</i> , 2013, 102, 1256-1266.	10.1	84
11	Multistage latent heat cold thermal energy storage design analysis. <i>Applied Energy</i> , 2013, 112, 1438-1445.	10.1	81
12	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
13	Submerged finned heat exchanger latent heat storage design and its experimental verification. <i>Applied Energy</i> , 2012, 93, 507-516.	10.1	71
14	Stratification analysis in packed bed thermal energy storage systems. <i>Applied Energy</i> , 2013, 109, 476-487.	10.1	71
15	Liquid–solid phase equilibrium study of tetradecane and hexadecane binary mixtures as phase change materials (PCMs) for comfort cooling storage. <i>Fluid Phase Equilibria</i> , 2003, 212, 97-109.	2.5	64
16	Energy management and CO <sub>2</sub> 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
17	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
18	CO <sub>2</sub> mitigation accounting for Thermal Energy Storage (TES) case studies. <i>Applied Energy</i> , 2015, 155, 365-377.	10.1	58

#	ARTICLE	IF	CITATIONS
19	Industrial surplus heat transportation for use in district heating. <i>Energy</i> , 2016, 110, 139-147.	8.8	42
20	Active free cooling optimization with thermal energy storage in Stockholm. <i>Applied Energy</i> , 2013, 109, 523-529.	10.1	39
21	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
22	Forecasting Wastewater Temperature Based on Artificial Neural Network (ANN) Technique and Monte Carlo Sensitivity Analysis. <i>Sustainability</i> , 2020, 12, 6386.	3.2	34
23	Thermally driven cooling coupled with municipal solid waste-fired power plant: Application of combined heat, cooling and power in tropical urban areas. <i>Applied Energy</i> , 2011, 88, 1532-1542.	10.1	33
24	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
25	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
26	Decentralized cooling in district heating network: System simulation and parametric study. <i>Applied Energy</i> , 2012, 92, 175-184.	10.1	22
27	Experimental investigation of solidification and melting in a vertically finned cavity. <i>Applied Thermal Engineering</i> , 2021, 198, 117459.	6.0	22
28	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
29	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
30	Energy analysis of solar blind system concept using energy system modelling. <i>Solar Energy</i> , 2016, 139, 297-308.	6.1	17
31	Solar Blind System- Solar Energy Utilization and Climate Mitigation in Glazed Buildings. <i>Energy Procedia</i> , 2014, 57, 2023-2032.	1.8	16
32	Erythritol, glycerol, their blends, and olive oil, as sustainable phase change materials. <i>Energy Procedia</i> , 2017, 135, 249-262.	1.8	14
33	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
34	Polyols as Phase Change Materials for Low-grade Excess Heat Storage. <i>Energy Procedia</i> , 2014, 61, 664-669.	1.8	13
35	Decentralised cooling in district heating network: Monitoring results and calibration of simulation model. <i>Energy and Buildings</i> , 2011, 43, 3311-3321.	6.7	11
36	Design Optimization of a Complex Polygeneration System for a Hospital. <i>Energies</i> , 2018, 11, 1071.	3.1	11

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37	Design Optimization of a Small-Scale Polygeneration Energy System in Different Climate Zones in Iran. Energies, 2018, 11, 1115.	3.1	10
38	Techno economic analysis of thermochemical energy storage and transport system utilizing "Zeolite Boiler" case study in Sweden. Energy Procedia, 2018, 149, 102-111.	1.8	9
39	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
40	The Potential Contribution of Decentralized Anaerobic Digestion towards Urban Biowaste Recovery Systems: A Scoping Review. Sustainability, 2021, 13, 13435.	3.2	8
41	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
42	Compact Heat Storage for Solar Heating Systems. Journal of Solar Energy Engineering, Transactions of the ASME, 2009, 131, .	1.8	6
43	Industrial Surplus Heat Storage in Smart Cities. , 2015, , .		4
44	Combined Production of Power and Alternative Fuels in Connection with Pulp Mills. , 1999, , .		3
45	Numerical Investigation of Latent Thermal Storage in a Compact Heat Exchanger Using Mini-Channels. Applied Sciences (Switzerland), 2021, 11, 5985.	2.5	2
46	Numerical Design of a Reactor for an Ammonia-SrCl <sub>2</sub> Thermochemical Storage System. , 2019, , .		2
47	A parametric analysis on the regeneration performance of silica gel in a proposed comfort provision strategy for a typical office space in Harare, Zimbabwe. Energy and Buildings, 2016, 126, 104-112.	6.7	1
48	Wind Resource Assessment in Europe Using Energy. Journal of Environmental Accounting and Management, 2014, 2, 347-366.	0.5	1
49	Analysis of Heat-Driven Cooling Production Coupled to Power Generation for Increased Electrical Yield. , 2004, , 395.		0
50	Energy Analysis and Thermo-economic Assessment of the Closed Greenhouse: The Largest Commercial Solar Building. , 2011, , .		0
51	Feasibility Study of Absorption Chillers With a Low Temperature Heat Source. , 2004, , .		0
52	State of the Art in Hydrogen Liquefaction. , 2019, , .		0