

Gabriel Zsembinszki

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

41 papers	525 citations	13 h-index	21 g-index
48 ext. papers	701 ext. citations	4.6 avg, IF	4.67 L-index

#	Paper	IF	Citations
41	PCM thermal energy storage tanks in heat pump system for space cooling. <i>Energy and Buildings</i> , 2014 , 82, 399-405	7	76
40	Axion thermalization in the early universe. <i>Physical Review D</i> , 2002 , 66,	4.9	70
39	Review of Reactors with Potential Use in Thermochemical Energy Storage in Concentrated Solar Power Plants. <i>Energies</i> , 2018 , 11, 2358	3.1	41
38	Recent developments of thermal energy storage applications in the built environment: A bibliometric analysis and systematic review. <i>Applied Thermal Engineering</i> , 2021 , 189, 116666	5.8	28
37	Recent Trends on Liquid Air Energy Storage: A Bibliometric Analysis. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2773	2.6	27
36	Selection of the Appropriate Phase Change Material for Two Innovative Compact Energy Storage Systems in Residential Buildings. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2116	2.6	20
35	Planck-scale effects on global symmetries: Cosmology of pseudo-Goldstone bosons. <i>Physical Review D</i> , 2004 , 70,	4.9	19
34	Phenomenological modelling of phase transitions with hysteresis in solid/liquid PCM. <i>Journal of Building Performance Simulation</i> , 2019 , 12, 770-788	2.8	18
33	Analysis of implementing phase change materials in open-air swimming pools. <i>Solar Energy</i> , 2012 , 86, 567-577	6.8	18
32	Influence of the storage period between charge and discharge in a latent heat thermal energy storage system working under partial load operating conditions. <i>Applied Energy</i> , 2019 , 235, 1389-1399	10.7	18
31	Numerical model evaluation of a PCM cold storage tank and uncertainty analysis of the parameters. <i>Applied Thermal Engineering</i> , 2014 , 67, 16-23	5.8	17
30	Evaluation of volume change in phase change materials during their phase transition. <i>Journal of Energy Storage</i> , 2020 , 28, 101206	7.8	16
29	Scalar field oscillations contributing to dark energy. <i>Physical Review D</i> , 2005 , 72,	4.9	14
28	A novel numerical methodology for modelling simple vapour compression refrigeration system. <i>Applied Thermal Engineering</i> , 2017 , 115, 188-200	5.8	13
27	Perspectives on thermal energy storage research. <i>Energy</i> , 2021 , 231, 120943	7.9	13
26	Evaluation of the State of Charge of a Solid/Liquid Phase Change Material in a Thermal Energy Storage Tank. <i>Energies</i> , 2020 , 13, 1425	3.1	12
25	Performance Study of Direct Integration of Phase Change Material into an Innovative Evaporator of a Simple Vapour Compression System. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4649	2.6	12

24	Imprint of spatial curvature on inflation power spectrum. <i>Physical Review D</i> , 2008 , 78,	4.9	10
23	Low-scale inflation in a model of dark energy and dark matter. <i>Journal of Cosmology and Astroparticle Physics</i> , 2006 , 2006, 004-004	6.4	9
22	Unified model for inflation and dark energy with Planck-scale pseudo-Goldstone bosons. <i>Journal of Cosmology and Astroparticle Physics</i> , 2006 , 2006, 012-012	6.4	9
21	Energy assessment based on semi-dynamic modelling of a photovoltaic driven vapour compression chiller using phase change materials for cold energy storage. <i>Renewable Energy</i> , 2021 , 163, 198-212	8.1	9
20	Hybrid Cascade Heat Pump and Thermal-Electric Energy Storage System for Residential Buildings: Experimental Testing and Performance Analysis. <i>Energies</i> , 2021 , 14, 2580	3.1	7
19	Control strategies for defrost and evaporator fans operation in walk-in freezers. <i>International Journal of Refrigeration</i> , 2018 , 91, 101-110	3.8	7
18	Techno-Economic Analysis of a Heat Pump Cycle Including a Three-Media Refrigerant/Phase Change Material/Water Heat Exchanger in the Hot Superheated Section for Efficient Domestic Hot Water Generation. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 7873	2.6	6
17	Experimental Devices to Investigate the Long-Term Stability of Phase Change Materials under Application Conditions. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 7968	2.6	5
16	Trends and future perspectives on the integration of phase change materials in heat exchangers. <i>Journal of Energy Storage</i> , 2021 , 38, 102544	7.8	5
15	A detailed energy analysis of a novel evaporator with latent thermal energy storage ability. <i>Applied Thermal Engineering</i> , 2022 , 201, 117844	5.8	4
14	Deep Learning Optimal Control for a Complex Hybrid Energy Storage System. <i>Buildings</i> , 2021 , 11, 194	3.2	4
13	Experimental Study on Two PCM Macro-Encapsulation Designs in a Thermal Energy Storage Tank. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6171	2.6	4
12	The use of phase change materials in fish farms: A general analysis. <i>Applied Energy</i> , 2013 , 109, 488-496	10.7	3
11	Frost detection method on evaporator in vapour compression systems. <i>International Journal of Refrigeration</i> , 2020 , 110, 75-82	3.8	3
10	Life Cycle Assessment (LCA) of an Innovative Compact Hybrid Electrical-Thermal Storage System for Residential Buildings in Mediterranean Climate. <i>Sustainability</i> , 2021 , 13, 5322	3.6	2
9	Optimization of Design Variables of a Phase Change Material Storage Tank and Comparison of a 2D Implicit vs. 2D Explicit Model. <i>Energies</i> , 2021 , 14, 2605	3.1	2
8	Implementing SDGs to a Sustainable Rural Village Development from Community Empowerment: Linking Energy, Education, Innovation, and Research. <i>Sustainability</i> , 2021 , 13, 12946	3.6	1
7	Life Cycle Assessment of an Innovative Hybrid Energy Storage System for Residential Buildings in Continental Climates. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3820	2.6	1

6	Experimental Study of a Small-Size Vacuum Insulated Water Tank for Building Applications. <i>Sustainability</i> , 2021 , 13, 5329	3.6	1
5	A unified model for inflation and dark matter. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007 , 40, 5219-5230	2	0
4	Case study of pipeline failure analysis from two automated vacuum collection system. <i>Waste Management</i> , 2021 , 126, 643-651	8.6	0
3	A unified model for inflation and dark energy. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007 , 40, 7081-7085	2	
2	Experimental Assessment of the Influence of the Design on the Performance of Novel Evaporators with Latent Energy Storage Ability. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 1813	2.6	
1	A New Methodological Approach for the Evaluation of Scaling Up a Latent Storage Module for Integration in Heat Pumps. <i>Energies</i> , 2021 , 14, 7470	3.1	