

Tiago Sotto Mayor

List of Publications by Citations

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Version: 2024-04-27

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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.

30
papers

407
citations

13
h-index

19
g-index

32
ext. papers

510
ext. citations

5.6
avg, IF

3.69
L-index

#	Paper	IF	Citations
30	A Healthy, Energy-Efficient and Comfortable Indoor Environment, a Review. <i>Energies</i> , 2019 , 12, 1414	3.1	43
29	An image analysis technique for the study of gas-liquid slug flow along vertical pipes associated uncertainty. <i>Flow Measurement and Instrumentation</i> , 2007 , 18, 139-147	2.2	38
28	Localised boundary air layer and clothing evaporative resistances for individual body segments. <i>Ergonomics</i> , 2012 , 55, 799-812	2.9	35
27	A review on ergonomics of headgear: Thermal effects. <i>International Journal of Industrial Ergonomics</i> , 2015 , 45, 1-12	2.9	28
26	On the determination of parameters required for numerical studies of heat and mass transfer through textiles –Methodologies and experimental procedures. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 81, 272-282	4.9	24
25	Hydrodynamics of gas-liquid slug flow along vertical pipes in turbulent regime –An experimental study. <i>International Journal of Heat and Fluid Flow</i> , 2008 , 29, 1039-1053	2.4	23
24	Vertical slug flow in laminar regime in the liquid and turbulent regime in the bubble wake –Comparison with fully turbulent and fully laminar regimes. <i>Chemical Engineering Science</i> , 2008 , 63, 3614-3631	4.4	21
23	Effects of clothing and fibres properties on the heat and mass transport, for different body heat/sweat releases. <i>Applied Thermal Engineering</i> , 2017 , 117, 109-121	5.8	20
22	Advanced modelling of the transport phenomena across horizontal clothing microclimates with natural convection. <i>International Journal of Biometeorology</i> , 2015 , 59, 1875-89	3.7	20
21	Guidelines for the specification of a PCM layer in firefighting protective clothing ensembles. <i>Applied Thermal Engineering</i> , 2018 , 133, 81-96	5.8	19
20	Hydrodynamics of Gas-Liquid Slug Flow along Vertical Pipes in the Laminar Regime –Experimental and Simulation Study. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 3794-3809	3.9	17
19	Freezing the Nonclassical Crystal Growth of a Coordination Polymer Using Controlled Dynamic Gradients. <i>Advanced Materials</i> , 2016 , 28, 8150-8155	24	16
18	Numerical analysis of the flow and heat transfer in cylindrical clothing microclimates –Influence of the microclimate thickness ratio. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 117, 71-79	4.9	14
17	Advances in the optimisation of apparel heating products: A numerical approach to study heat transport through a blanket with an embedded smart heating system. <i>Applied Thermal Engineering</i> , 2015 , 87, 491-498	5.8	13
16	Occupational Heat Stress: Multi-Country Observations and Interventions. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	13
15	Hydrodynamics of Gas-Liquid Slug Flow Along Vertical Pipes in Turbulent Regime. <i>Chemical Engineering Research and Design</i> , 2007 , 85, 1497-1513	5.5	11
14	The HEAT-SHIELD project - Perspectives from an inter-sectoral approach to occupational heat stress. <i>Journal of Science and Medicine in Sport</i> , 2021 , 24, 747-755	4.4	8

13	On the gas expansion and gas hold-up in vertical slugging columns: A simulation study. <i>Chemical Engineering and Processing: Process Intensification</i> , 2008 , 47, 799-815	3.7	7
12	On the performance of a mitt heating multilayer: a numerical study. <i>International Journal of Clothing Science and Technology</i> , 2011 , 23, 373-387	0.7	6
11	Synthesis of 2D Porous Crystalline Materials in Simulated Microgravity. <i>Advanced Materials</i> , 2021 , 33, e2101777	24	5
10	Towards Model-Based Online Monitoring of Cyclist's Head Thermal Comfort: Smart Helmet Concept and Prototype. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3170	2.6	3
9	Numerical simulation of the transport phenomena in tilted clothing microclimates. <i>Extreme Physiology and Medicine</i> , 2015 , 4,		3
8	Thermal effects of headgear: state-of-the-art and way forward. <i>Extreme Physiology and Medicine</i> , 2015 , 4,		3
7	Axial dispersion of particles in a slugging column: The role of the laminar wake of the bubbles. <i>Chemical Engineering Science</i> , 2003 , 58, 4159-4172	4.4	3
6	Thermal-Performance Evaluation of Bicycle Helmets for Convective and Evaporative Heat Loss at Low and Moderate Cycling Speeds. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3672	2.6	3
5	Human white-fat thermogenesis: Experimental and meta-analytic findings. <i>Temperature</i> , 2020 , 8, 39-52	5.2	3
4	Head sweat rate prediction for thermal comfort assessment of bicycle helmets. <i>Extreme Physiology and Medicine</i> , 2015 , 4,		2
3	Horizontal air-water flow in a square cross-section channel: Pseudo-slug flow regime. <i>Canadian Journal of Chemical Engineering</i> , 2008 , 86, 651-660	2.3	2
2	Chirality transfer from a 3D macro shape to the molecular level by controlling asymmetric secondary flows.. <i>Nature Communications</i> , 2022 , 13, 1766	17.4	2
1	Analysis of the dynamic air conditioning loads, fuel consumption and emissions of heavy-duty trucks with different glazing and paint optical properties. <i>International Journal of Sustainable Transportation</i> , 1-14	3.6	1