Riccardo Paolini

List of Publications by Year
in descending order

34	1,243	394421	414414
papers	citations	19 h-index	32 g-index

36	36	36	1044
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Passive and active cooling for the outdoor built environment â€“ Analysis and assessment of the cooling potential of mitigation technologies using performance data from 220 large scale projects. Solar Energy, 2017, 154, 14-33.	6.1	248
2	On the energy impact of urban heat island in Sydney: Climate and energy potential of mitigation technologies. Energy and Buildings, 2018, 166, 154-164.	6.7	136
3	Effect of ageing on solar spectral reflectance of roofing membranes: Natural exposure in Roma and Milano and the impact on the energy needs of commercial buildings. Energy and Buildings, 2014, 84, 333-343.	6.7	62
4	Predicting the magnitude and the characteristics of the urban heat island in coastal cities in the proximity of desert landforms. The case of Sydney. Science of the Total Environment, 2020, 709, 136068.	8.0	58
5	Long term self-cleaning and photocatalytic performance of anatase added mortars exposed to the urban environment. Construction and Building Materials, 2015, 96, 270-278.	7.2	56
6	Urban mitigation and building adaptation to minimize the future cooling energy needs. Solar Energy, 2020, 204, 708-719.	6.1	55
7	Potential benefits of solar reflective car shells: Cooler cabins, fuel savings and emission reductions. Applied Energy, 2011, 88, 4343-4357.	10.1	54
8	Holistic approach to assess co-benefits of local climate mitigation in a hot humid region of Australia. Scientific Reports, 2020, 10, 14216.	3.3	47
9	The hygrothermal performance of residential buildings at urban and rural sites: Sensible and latent energy loads and indoor environmental conditions. Energy and Buildings, 2017, 152, 792-803.	6.7	45
10	On the potential of demand-controlled ventilation system to enhance indoor air quality and thermal condition in Australian school classrooms. Energy and Buildings, 2021, 238, 110838.	6.7	42
11	Assessment of Thermal Stress in a Street Canyon in Pedestrian Area with or without Canopy Shading. Energy Procedia, 2014, 48, 1570-1575.	1.8	40
12	Urban Overheating and Cooling Potential in Australia: An Evidence-Based Review. Climate, 2020, 8, 126.	2.8	39
13	Can urban heat be mitigated in a single urban street? Monitoring, strategies, and performance results from a real scale redevelopment project. Solar Energy, 2021, 216, 564-588.	6.1	35
14	Exploring the Synergies between Urban Overheating and Heatwaves (HWs) in Western Sydney. Energies, 2020, 13, 470.	3.1	34
15	Natural aging of cool walls: Impact on solar reflectance, sensitivity to thermal shocks and building energy needs. Energy and Buildings, 2017, 153, 287-296.	6.7	30
16	Self-cleaning building materials: The multifaceted effects of titanium dioxide. Construction and Building Materials, 2018, 182, 126-133.	7.2	29
17	Transparent Multilayer ETFE Panels for Building Envelope: Thermal Transmittance Evaluation and Assessment of Optical and Solar Performance Decay due to Soiling. Energy Procedia, 2014, 48, 1302-1310.	1.8	26
18	Effects of soiling and weathering on the albedo of building envelope materials: Lessons learned from natural exposure in two European cities and tuning of a laboratory simulation practice. Solar Energy Materials and Solar Cells, 2020, 205, 110264.	6.2	25

#	Article	IF	Citations
19	On the potential of building adaptation measures to counterbalance the impact of climatic change in the tropics. Energy and Buildings, 2020, 229, 110494.	6.7	22
20	Analyzing the local and climatic conditions affecting the urban overheating magnitude during the Heatwaves (HWs) in a coastal city: A case study of the greater Sydney region. Science of the Total Environment, 2021, 755, 142515.	8.0	20
21	Optimization of random silica-polymethylpentene (TPX) radiative coolers towards substantial cooling capacity. Solar Energy Materials and Solar Cells, 2022, 234, 111419.	6.2	15
22	Soiling of building envelope surfaces and its effect on solar reflectance â€“ Part III: Interlaboratory study of an accelerated aging method for roofing materials. Solar Energy Materials and Solar Cells, 2015, 143, 581-590.	6.2	14
23	Spatiotemporal variation in urban overheating magnitude and its association with synoptic air-masses in a coastal city. Scientific Reports, 2021, 11, 6762.	3.3	14
24	Analyzing the Impact of Urban Planning and Building Typologies in Urban Heat Island Mitigation. Buildings, 2022, 12, 537.	3.1	13
25	On the combined impact of local, regional, and global climatic changes on the urban energy performance and indoor thermal comfortâ€”The energy potential of adaptation measures. Energy and Buildings, 2022, 267, 112152.	6.7	13
26	TiO2 alterations with natural aging: Unveiling the role of nitric acid on NIR reflectance. Solar Energy Materials and Solar Cells, 2016, 157, 791-797.	6.2	12
27	Investigating thermal comfort and energy impact through microclimate monitoring- a citizen science approach. Energy and Buildings, 2020, 229, 110526.	6.7	10
28	Elastocaloric cooling: roadmap towards successful implementation in the built environment. AIMS Materials Science, 2019, 6, 1135-1152.	1.4	10
29	Experimental and Theoretical analysis of the urban overheating and its mitigation potential in a hot arid city â€“ Alice Springs. Architectural Science Review, 2020, 63, 425-440.	2.2	9
30	Above-roof air temperature effects on HVAC and cool roof performance: Experiments and development of a predictive model. Energy and Buildings, 2020, 222, 110071.	6.7	9
31	Uncertainty of solar radiation in urban canyons propagates to indoor thermo-visual comfort. Solar Energy, 2021, 221, 545-558.	6.1	9
32	Experimental Assessment of the Reflection of Solar Radiation from FaÃ§ades of Tall Buildings to the Pedestrian Level. Sustainability, 2022, 14, 5781.	3.2	6
33	Nanotech-Based Cool Materials for Building Energy Efficiency. , 2016, , 245-278.		3
34	Evaluation of Moisture Transfer to Improve the Conservation of Tiles Finishing Facades. Building Pathology and Rehabilitation, 2016, , 171-194.	0.2	0