Mat Santamouris

List of Publications by Year in Descending Order

416 papers	20,956 citations	75 h-index	130 g-index
437 ext. papers	23,778 ext. citations	6 avg, IF	7.85 L-index

#	Paper	IF	Citations
416	Optically Modulated Passive Broadband Daytime Radiative Cooling Materials Can Cool Cities in Summer and Heat Cities in Winter. *Sustainability*, **2022**, 14, 1110	3.6	2
415	Urban overheating mitigation through facades: the role of new and innovative cool coatings **2022**, 61-87		
414	The influence of daily weather types on the development and intensity of the urban heat island in two Mediterranean coastal metropolises.. *Science of the Total Environment*, **2022**, 819, 153071	10.2	3
413	Optimization of random silica-polymethylpentene (TPX) radiative coolers towards substantial cooling capacity. *Solar Energy Materials and Solar Cells*, **2022**, 234, 111419	6.4	2
412	On the mitigation potential of higher urban albedo in a temperate oceanic metropolis. *Sustainable Cities and Society*, **2022**, 81, 103850	10.1	0
411	On the cooling energy conservation potential of super cool roofs. *Energy and Buildings*, **2022**, 264, 112076	7	1
410	Evaporative cooling performance estimation of pervious pavement based on evaporation resistance. *Building and Environment*, **2022**, 217, 109083	6.5	0
409	Analyzing the Impact of Urban Planning and Building Typologies in Urban Heat Island Mitigation. *Buildings*, **2022**, 12, 537	3.2	1
408	Adjusting optical and fluorescent properties of quantum dots: Moving towards best optical heat-rejecting materials. *Solar Energy*, **2022**, 238, 272-279	6.8	0
407	On the combined impact of local, regional, and global climatic changes on the urban energy performance and indoor thermal comfort The energy potential of adaptation measures. *Energy and Buildings*, **2022**, 267, 112152	7	1
406	Urban Mitigation Potential of Quantum Dots and Transpiration Cooling: Transpiration Cooling to Mitigate Urban Overheating **2022**, 3759-3785		
405	Rapid systematic reviews for synthesizing research on built environment. *Environmental Development*, **2022**, 43, 100730	4.1	0
404	Use of landscape metrics for the mitigation of the surface urban heat island effect in Mediterranean cities **2022**, 95-108		
403	Innovative approaches to thermochromic materials for adaptive building envelopes. *Journal of Physics: Conference Series*, **2021**, 2069, 012132	0.3	0
402	The health benefits of greening strategies to cool urban environments A heat health impact method. *Building and Environment*, **2021**, 108546	6.5	2
401	On the impact of user behaviour on heating energy consumption and indoor temperature in residential buildings. *Energy and Buildings*, **2021**, 255, 111657	7	5
400	On the winter overcooling penalty of super cool photonic materials in cities. *Solar Energy Advances*, **2021**, 1, 100009		2

399	Urban Heat Island and Advanced Mitigation Technologies **2021**, 742-742		
398	On the cooling potential of elastocaloric devices for building ventilation. *Solar Energy*, **2021**, 230, 298-316	6.8	0
397	Present and Future Energy Consumption of Buildings: Challenges and Opportunities towards Decarbonisation. *E-Prime*, **2021**, 100002		14
396	Spatiotemporal variation in urban overheating magnitude and its association with synoptic air-masses in a coastal city. *Scientific Reports*, **2021**, 11, 6762	4.9	6
395	On the impact of modified urban albedo on ambient temperature and heat related mortality. *Solar Energy*, **2021**, 216, 493-507	6.8	14
394	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	6.8	18
393	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	7	15
392	Empirical evidence on the impact of urban overheating on building cooling and heating energy consumption. *IScience*, **2021**, 24, 102495	6.1	11
391	Expanding the applicability of daytime radiative cooling: Technological developments and limitations. *Energy and Buildings*, **2021**, 243, 110990	7	8
390	Enhancing the cooling potential of photoluminescent materials through evaluation of thermal and transmission loss mechanisms. *Scientific Reports*, **2021**, 11, 14725	4.9	0
389	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	10.2	12
388	Present and Future Challenges and Opportunities in the Built Environment. *PoliTO Springer Series*, **2021**, 111-116	0.4	1
387	Passive Solar Architecture **2021**,		
386	Urban Mitigation Potential of Quantum Dots and Transpiration Cooling: Transpiration Cooling to Mitigate Urban Overheating **2021**, 1-27		1
385	Recent Climatic Trends and Analysis of Monthly Heating and Cooling Degree Hours in Sydney. *Climate*, **2021**, 9, 114	3.1	2
384	The heat mitigation potential and climatic impact of super-cool broadband radiative coolers on a city scale. *Cell Reports Physical Science*, **2021**, 100485	6.1	8
383	Technological advancements towards the net-zero energy communities: A review on 23 case studies around the globe. *Solar Energy*, **2021**, 224, 1107-1126	6.8	10
382	Development of a heat stress exposure metric Impact of intensity and duration of exposure to heat on physiological thermal regulation. *Building and Environment*, **2021**, 200, 107947	6.5	7

381	Influences of wind speed, sky conditions, land use and land cover characteristics on the magnitude of the urban heat island in Seoul: An exploratory analysis. *Sustainable Cities and Society*, **2021**, 71, 102953	10.1	6
380	On the cooling potential of urban heating mitigation technologies in a coastal temperate city. *Landscape and Urban Planning*, **2021**, 212, 104106	7.7	0
379	Research trends on environmental, energy and vulnerability impacts of Urban Heat Islands: An overview. *Energy and Buildings*, **2021**, 246, 111051	7	8
378	Experimental development and testing of low-cost scalable radiative cooling materials for building applications. *Solar Energy Materials and Solar Cells*, **2021**, 230, 111209	6.4	6
377	Local synergies and antagonisms between meteorological factors and air pollution: A 15-year comprehensive study in the Sydney region. *Science of the Total Environment*, **2021**, 788, 147783	10.2	7
376	Zero energy concept at neighborhood level: A case study analysis. *Solar Energy Advances*, **2021**, 1, 100002		2
375	Increasing Green Infrastructure in Cities: Impact on Ambient Temperature, Air Quality and Heat-Related Mortality and Morbidity. *Buildings*, **2020**, 10, 233	3.2	32
374	Urban Overheating and Cooling Potential in Australia: An Evidence-Based Review. *Climate*, **2020**, 8, 126	3.1	14
373	Above-roof air temperature effects on HVAC and cool roof performance: Experiments and development of a predictive model. *Energy and Buildings*, **2020**, 222, 110071	7	6
372	On the association of ambient temperature and elderly mortality in a Mediterranean island - Crete. *Science of the Total Environment*, **2020**, 738, 139843	10.2	6
371	Can quantum dots help to mitigate urban overheating? An experimental and modelling study. *Solar Energy*, **2020**, 206, 308-316	6.8	15
370	On the cooling potential of irrigation to mitigate urban heat island. *Science of the Total Environment* , **2020**, 740, 139754	10.2	14
369	Development, testing and evaluation of energy savings potentials of photovoltachromic windows in office buildings. A perspective study for Australian climates. *Solar Energy*, **2020**, 205, 358-371	6.8	12
368	Using deep-learning to forecast the magnitude and characteristics of urban heat island in Seoul Korea. *Scientific Reports*, **2020**, 10, 3559	4.9	15
367	Heat mitigation technologies can improve sustainability in cities. An holistic experimental and numerical impact assessment of urban overheating and related heat mitigation strategies on energy consumption, indoor comfort, vulnerability and heat-related mortality and morbidity in cities. *Energy and Buildings*, **2020**, 217, 110002	7	54
366	On the Efficiency of Using Transpiration Cooling to Mitigate Urban Heat. *Climate*, **2020**, 8, 69	3.1	5
365	Canopy Urban Heat Island and Its Association with Climate Conditions in Dubai, UAE. *Climate*, **2020**, 8, 81	3.1	7
364	The radiative cooling efficiency of silica sphere embedded polymethylpentene (TPX) systems. *Solar Energy Materials and Solar Cells*, **2020**, 215, 110671	6.4	9

363	Dynamic impact of climate on the performance of daytime radiative cooling materials. *Solar Energy Materials and Solar Cells*, **2020**, 208, 110426	6.4	37
362	Exploring the Synergies between Urban Overheating and Heatwaves (HWs) in Western Sydney. *Energies*, **2020**, 13, 470	3.1	22
361	A Novel Hybrid Deep Neural Network Model to Predict the Refrigerant Charge Amount of Heat Pumps. *Sustainability*, **2020**, 12, 2914	3.6	4
360	Probability Risk of Heat- and Cold-Related Mortality to Temperature, Gender, and Age Using GAM Regression Analysis. *Climate*, **2020**, 8, 40	3.1	6
359	Synergies between urban heat island and heat waves in Seoul: The role of wind speed and land use characteristics. *PLoS ONE*, **2020**, 15, e0243571	3.7	14
358	Urban mitigation and building adaptation to minimize the future cooling energy needs. *Solar Energy*, **2020**, 204, 708-719	6.8	27
357	Experimental evidence of the multiple microclimatic impacts of bushfires in affected urban areas: the case of Sydney during the 2019/2020 Australian season. *Environmental Research Communications*, **2020**, 2, 065005	3.1	12
356	Experimental and Theoretical analysis of the urban overheating and its mitigation potential in a hot arid city Alice Springs. *Architectural Science Review*, **2020**, 63, 425-440	2.6	4
355	Using deep learning approaches with variable selection process to predict the energy performance of a heating and cooling system. *Renewable Energy*, **2020**, 149, 1227-1245	8.1	16
354	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	10.2	41
353	Urban-rural moisture contrast: Regulator of the urban heat island and heatwaves' synergy over a mediterranean city. *Environmental Research*, **2020**, 182, 109102	7.9	22
352	On the energy modulation of daytime radiative coolers: A review on infrared emissivity dynamic switch against overcooling. *Solar Energy*, **2020**, 209, 278-301	6.8	31
351	Development of a holistic urban heat island evaluation methodology. *Scientific Reports*, **2020**, 10, 17913	4.9	19
350	On the potential of building adaptation measures to counterbalance the impact of climatic change in the tropics. *Energy and Buildings*, **2020**, 229, 110494	7	15
349	On the combination of quantum dots with near-infrared reflective base coats to maximize their urban overheating mitigation potential. *Solar Energy*, **2020**, 211, 111-116	6.8	9
348	Urban Morphological Controls on Surface Thermal Dynamics: A Comparative Assessment of Major European Cities with a Focus on Athens, Greece. *Climate*, **2020**, 8, 131	3.1	5
347	Recent development and research priorities on cool and super cool materials to mitigate urban heat island. *Renewable Energy*, **2020**, 161, 792-807	8.1	53
346	On the energy potential of daytime radiative cooling for urban heat island mitigation. *Solar Energy*, **2020**, 208, 430-444	6.8	16

345	Upscaling of SMA film-based elastocaloric cooling. *Applied Thermal Engineering*, **2020**, 180, 115867	5.8	10
344	Holistic approach to assess co-benefits of local climate mitigation in a hot humid region of Australia. *Scientific Reports*, **2020**, 10, 14216	4.9	23
343	Perspective and Advances of Houses and Buildings in Hot and Humid Regions **2020**, 1-14		3
342	Recent progress on urban overheating and heat island research. Integrated assessment of the energy, environmental, vulnerability and health impact. Synergies with the global climate change. *Energy and Buildings*, **2020**, 207, 109482	7	147
341	Synergies between urban heat island and heat waves in Seoul: The role of wind speed and land use characteristics **2020**, 15, e0243571		
340	Synergies between urban heat island and heat waves in Seoul: The role of wind speed and land use characteristics **2020**, 15, e0243571		
339	Synergies between urban heat island and heat waves in Seoul: The role of wind speed and land use characteristics **2020**, 15, e0243571		
338	Synergies between urban heat island and heat waves in Seoul: The role of wind speed and land use characteristics **2020**, 15, e0243571		
337	Retrospective Analysis of Summer Temperature Anomalies with the Use of Precipitation and Evapotranspiration Rates. *Climate*, **2019**, 7, 104	3.1	4
336	Predicting the solar evaporative cooling performance of pervious materials based on hygrothermal properties. *Solar Energy*, **2019**, 191, 311-322	6.8	11
335	Building Energy Consumption Raw Data Forecasting Using Data Cleaning and Deep Recurrent Neural Networks. *Buildings*, **2019**, 9, 204	3.2	14
334	The use of water irrigation to mitigate ambient overheating in the built environment: Recent progress. *Building and Environment*, **2019**, 164, 106346	6.5	11
333	Impacts of the water absorption capability on the evaporative cooling effect of pervious paving materials. *Building and Environment*, **2019**, 151, 187-197	6.5	43
332	A visualized overview of systematic reviews and meta-analyses on low-carbon built environments: An evidence review map. *Solar Energy*, **2019**, 186, 291-299	6.8	6
331	Urban Heat Island Mitigation **2019**, 337-355		8
330	Integrating Urban Form, Function, and Energy Fluxes in a Heat Exposure Indicator in View of Intra-Urban Heat Island Assessment and Climate Change Adaptation. *Climate*, **2019**, 7, 75	3.1	11
329	Socio-economic status and residential energy consumption: A latent variable approach. *Energy and Buildings*, **2019**, 198, 100-105	7	20
328	Energy saving estimation for plug and lighting load using occupancy analysis. *Renewable Energy*, **2019**, 143, 1143-1161	8.1	36

327	Spatiotemporal Analysis of Diurnal Temperature Range: Effect of Urbanization, Cloud Cover, Solar Radiation, and Precipitation. *Climate*, **2019**, 7, 89	3.1	12
326	Occupancy-based zone-level VAV system control implications on thermal comfort, ventilation, indoor air quality and building energy efficiency. *Energy and Buildings*, **2019**, 204, 109473	7	38
325	Thermal behavior of a vertical green facade and its impact on the indoor and outdoor thermal environment. *Energy and Buildings*, **2019**, 204, 109502	7	37
324	Towards higher quality green building agenda An overview of the application of green building techniques in China. *Solar Energy*, **2019**, 193, 473-493	6.8	10
323	Numerical techniques for electromagnetic simulation of daytime radiative cooling: A review. *AIMS Materials Science*, **2019**, 6, 1049-1064	1.9	10
322	Elastocaloric cooling: roadmap towards successful implementation in the built environment. *AIMS Materials Science*, **2019**, 6, 1135-1152	1.9	9
321	Thermal analysis in daytime radiative cooling. *IOP Conference Series: Materials Science and Engineering*, **2019**, 609, 072064	0.4	9
320	An extensive study on the relationship between energy use, indoor thermal comfort, and health in social housing: the case of the New South Wales, Australia. *IOP Conference Series: Materials Science and Engineering*, **2019**, 609, 042067	0.4	4
319	Urban overheating and impact on the built environment. *IOP Conference Series: Materials Science and Engineering*, **2019**, 609, 022003	0.4	
318	Time series analysis of ambient air-temperature during the period 1970-2016 over Sydney, Australia. *Science of the Total Environment*, **2019**, 648, 1627-1638	10.2	37
317	Using advanced thermochromic technologies in the built environment: Recent development and potential to decrease the energy consumption and fight urban overheating. *Solar Energy Materials and Solar Cells*, **2019**, 191, 21-32	6.4	81
316	Mitigating the Local Climatic Change and Fighting Urban Vulnerability **2019**, 223-307		
315	Energy Consumption and Environmental Quality of the Building Sector **2019**, 29-64		3
314	Urban Heat Island and Local Climate Change **2019**, 65-102		7
313	Energy Poverty and Urban Vulnerability **2019**, 103-167		
312	Defining the Synergies Between Energy Consumption Local Climate Change and Energy Poverty **2019**, 169-194		
311	Technological-Economic and Social Measures to Decrease Energy Consumption by the Building Sector **2019**, 199-222		1
310	Eradicating Energy Poverty in the Developed World **2019**, 309-326		2

309	Concluding Remarks and Policy Proposals **2019**, 327-332		
308	Life cycle and life cycle cost implications of integrated phase change materials in office buildings. *International Journal of Energy Research*, **2019**, 43, 150-166	4.5	23
307	Challenges in transitioning to low carbon living for lower income households in Australia. *Advances in Building Energy Research*, **2019**, 13, 49-64	1.8	4
306	Determinants of high electricity use and high energy consumption for space and water heating in European social housing: Socio-demographic and building characteristics. *Energy and Buildings*, **2018**, 170, 107-114	7	24
305	On the energy impact of urban heat island in Sydney: Climate and energy potential of mitigation technologies. *Energy and Buildings*, **2018**, 166, 154-164	7	86
304	A decision tool to balance indoor air quality and energy consumption: A case study. *Energy and Buildings*, **2018**, 165, 246-258	7	13
303	Using artificial neural networks to assess HVAC related energy saving in retrofitted office buildings. *Solar Energy*, **2018**, 163, 32-44	6.8	38
302	Retrofitting solutions for two different occupancy levels of educational buildings in tropics. *International Journal of Sustainable Energy*, **2018**, 37, 81-95	2.7	2
301	Using reflective pavements to mitigate urban heat island in warm climates - Results from a large scale urban mitigation project. *Urban Climate*, **2018**, 24, 326-339	6.8	86
300	On the time varying mitigation performance of reflective geoengineering technologies in cities. *Renewable Energy*, **2018**, 115, 926-930	8.1	18
299	Facing the urban overheating: Recent developments. Mitigation potential and sensitivity of the main technologies. *Wiley Interdisciplinary Reviews: Energy and Environment*, **2018**, 7, e294	4.7	16
298	Approaches to Outdoor Thermal Comfort Thresholds through Public Space Design: A Review. *Atmosphere*, **2018**, 9, 108	2.7	41
297	Multifractal Analysis of High-Frequency Temperature Time Series in the Urban Environment. *Climate*, **2018**, 6, 50	3.1	6
296	How outdoor microclimate mitigation affects building thermal-energy performance: A new design-stage method for energy saving in residential near-zero energy settlements in Italy. *Renewable Energy*, **2018**, 127, 920-935	8.1	45
295	Green and cool roofs urban heat island mitigation potential in tropical climate. *Solar Energy*, **2018**, 173, 597-609	6.8	90
294	PROGRESS IN URBAN GREENERY MITIGATION SCIENCE ASSESSMENT METHODOLOGIES ADVANCED TECHNOLOGIES AND IMPACT ON CITIES. *Journal of Civil Engineering and Management*, **2018**, 24, 638-671	3	71
293	Cool roofs and cool pavements application in Acharnes, Greece. *Sustainable Cities and Society*, **2018**, 37, 466-474	10.1	54
292	Experimental and numerical evaluations on the energy penalty of reflective roofs during the heating season for Mediterranean climate. *Energy*, **2018**, 144, 178-199	7.9	11

291	Recent Progress in Daytime Radiative Cooling: Is It the Air Conditioner of the Future?. *Buildings*, **2018**, 8, 168	3.2	64
290	Recognition of Thermal Hot and Cold Spots in Urban Areas in Support of Mitigation Plans to Counteract Overheating: Application for Athens. *Climate*, **2018**, 6, 16	3.1	17
289	Increasing Probability of Heat-Related Mortality in a Mediterranean City Due to Urban Warming. *International Journal of Environmental Research and Public Health*, **2018**, 15,	4.6	35
288	Comparison of different occupancy counting methods for single system-single zone applications. *Energy and Buildings*, **2018**, 172, 221-234	7	21
287	Enhanced near-surface ozone under heatwave conditions in a Mediterranean island. *Scientific Reports*, **2018**, 8, 9191	4.9	29
286	Retrospective analysis of the energy consumption of single-family dwellings in central Argentina. Retrofitting and adaptation to the climate change. *Renewable Energy*, **2017**, 101, 1226-1241	8.1	18
285	Differentiating responses of weather files and local climate change to explain variations in building thermal-energy performance simulations. *Solar Energy*, **2017**, 153, 224-237	6.8	24
284	Energy utilizability concept as a retrofitting solution selection criterion for buildings. *Journal of Civil Engineering and Management*, **2017**, 23, 541-552	3	4
283	High-resolution spectral mapping of urban thermal properties with Unmanned Aerial Vehicles. *Building and Environment*, **2017**, 121, 215-224	6.5	47
282	Evaluation of the performance gap in industrial, residential & tertiary near-Zero energy buildings. *Energy and Buildings*, **2017**, 148, 58-73	7	69
281	Numerical calibration and experimental validation of a PCM-Air heat exchanger model. *Applied Thermal Engineering*, **2017**, 114, 1064-1072	5.8	20
280	Passive and active cooling for the outdoor built environment Analysis and assessment of the cooling potential of mitigation technologies using performance data from 220 large scale projects. *Solar Energy*, **2017**, 154, 14-33	6.8	167
279	Achieving nearly zero energy buildings in Cyprus, through building performance simulations, based on the use of innovative energy technologies. *Energy Procedia*, **2017**, 134, 636-644	2.3	6
278	Energy Consumption of the Building Sector: Incorporating Urbanization, Local Climate Change, and Energy Poverty. *Springer Optimization and Its Applications*, **2017**, 129-149	0.4	
277	Synergies between Urban Heat Island and Heat Waves in Athens (Greece), during an extremely hot summer (2012). *Scientific Reports*, **2017**, 7, 10973	4.9	179
276	Aerial Survey and In-situ Measurements of Materials and Vegetation in the Urban Fabric. *Procedia Engineering*, **2017**, 180, 1335-1344		7
275	Development of Net Zero Energy Settlements Using Advanced Energy Technologies. *Procedia Engineering*, **2017**, 180, 1388-1401		21
274	Minimizing the energy consumption of low income multiple housing using a holistic approach. *Energy and Buildings*, **2017**, 154, 55-71	7	15

273	Analysis of the experimental performance of light pipes. *Energy and Buildings*, **2017**, 151, 242-249	7	10
272	Transformation through Renovation: An Energy Efficient Retrofit of an Apartment Building in Athens. *Procedia Engineering*, **2017**, 180, 1003-1014		16
271	The Concept of Smart and NZEB Buildings and the Integrated Design Approach. *Procedia Engineering*, **2017**, 180, 1316-1325		29
270	Analysis of the indoor thermal quality in low income Cypriot households during winter. *Energy and Buildings*, **2017**, 152, 766-775	7	22
269	Energy performance of a medium scale green roof system installed on a commercial building using numerical and experimental data recorded during the cold period of the year. *Energy and Buildings*, **2017**, 135, 33-38	7	44
268	On the effect of summer heatwaves and urban overheating on building thermal-energy performance in central Italy. *Sustainable Cities and Society*, **2017**, 28, 187-200	10.1	61
267	A methodology for the determination of indoor environmental quality in residential buildings through the monitoring of fundamental environmental parameters: A proposed Dwelling Environmental Quality Index. *Indoor and Built Environment*, **2017**, 26, 813-827	1.8	13
266	Anthropogenic heat reduction through retrofitting strategies of campus buildings. *Energy and Buildings*, **2017**, 152, 813-822	7	16
265	Design and performance analysis of a zero-energy settlement in Greece. *International Journal of Low-Carbon Technologies*, **2017**, 12, 141-161	2.8	14
264	Mortality Associated with High Ambient Temperatures, Heatwaves, and the Urban Heat Island in Athens, Greece. *Sustainability*, **2017**, 9, 606	3.6	60
263	Urban Heat Island and Overheating Characteristics in Sydney, Australia. An Analysis of Multiyear Measurements. *Sustainability*, **2017**, 9, 712	3.6	61
262	Determination of the Surface and Canopy Urban Heat Island in Athens Central Zone Using Advanced Monitoring. *Climate*, **2017**, 5, 97	3.1	17
261	Cooling the buildings □past, present and future. *Energy and Buildings*, **2016**, 128, 617-638	7	234
260	Predicting the CO2 levels in buildings using deterministic and identified models. *Energy and Buildings*, **2016**, 127, 774-785	7	35
259	Building envelope design for climate change mitigation: a case study of hotels in Greece. *International Journal of Sustainable Energy*, **2016**, 35, 944-967	2.7	12
258	Performance prediction and design optimisation of an integrated light pipe and artificial lighting system. *International Journal of Sustainable Energy*, **2016**, 35, 675-685	2.7	12
257	Experimental and numerical analysis of the energy performance of a large scale intensive green roof system installed on an office building in Athens. *Energy and Buildings*, **2016**, 114, 256-264	7	51
256	Forecasting diurnal cooling energy load for institutional buildings using Artificial Neural Networks. *Energy and Buildings*, **2016**, 121, 284-297	7	154

255	An analysis of indoor temperature measurements in low- and very-low-income housing in Athens, Greece. *Advances in Building Energy Research*, **2016**, 10, 20-45	1.8	10
254	Experimental in-lab and in-field analysis of waterproof membranes for cool roof application and urban heat island mitigation. *Energy and Buildings*, **2016**, 114, 180-190	7	57
253	Energy performance model development and occupancy number identification of institutional buildings. *Energy and Buildings*, **2016**, 123, 192-204	7	28
252	Ra out-in : Color rendering of objects in a daylit room viewed from outdoors. *Energy and Buildings*, **2016**, 118, 93-98	7	5
251	Innovating to zero the building sector in Europe: Minimising the energy consumption, eradication of the energy poverty and mitigating the local climate change. *Solar Energy*, **2016**, 128, 61-94	6.8	179
250	The design of an energy and water advice programme for low-income households. *Energy and Buildings*, **2016**, 110, 426-434	7	12
249	On the ageing of cool roofs: Measure of the optical degradation, chemical and biological analysis and assessment of the energy impact. *Energy and Buildings*, **2016**, 114, 191-199	7	50
248	Challenges and Priorities for a Sustainable Built Environment in Southern Europe The Impact of Energy Efficiency Measures and Renewable Energies on Employment **2016**, 63-77		
247	Energy Performance of Cool-colors and Roofing Coatings in Reducing the Free Solar Gains during the Heating Season: Results of an In-Field Investigation. *Procedia Engineering*, **2016**, 169, 375-383		6
246	Energy signature models of naturally ventilated hotels in Athens: a hotel classification methodology. *International Journal of Ventilation*, **2016**, 1-22	1.1	
245	Passive Cooling of Buildings: Present and Future Needs: Recent Progress on Passive Cooling Convective Technologies **2016**, 75-88		
244	Review of occupancy sensing systems and occupancy modeling methodologies for the application in institutional buildings. *Energy and Buildings*, **2016**, 121, 344-349	7	133
243	Development and testing of photovoltaic pavement for heat island mitigation. *Solar Energy*, **2016**, 130, 148-160	6.8	66
242	Development of a web based energy management system for University Campuses: The CAMP-IT platform. *Energy and Buildings*, **2016**, 123, 119-135	7	45
241	Review of the indoor environmental quality and energy consumption studies for low income households in Europe. *Science of the Total Environment*, **2015**, 536, 316-330	10.2	78
240	Retroreflective fa□des for urban heat island mitigation: Experimental investigation and energy evaluations. *Applied Energy*, **2015**, 145, 8-20	10.7	126
239	Identifying energy consumption patterns in the Attica hotel sector using cluster analysis techniques with the aim of reducing hotels□CO2 footprint. *Energy and Buildings*, **2015**, 94, 252-262	7	35
238	A holistic approach for the assessment of the indoor environmental quality, student productivity, and energy consumption in primary schools. *Environmental Monitoring and Assessment*, **2015**, 187, 259	3.1	57

237	Local urban warming, possible impacts and a resilience plan to climate change for the historical center of Athens, Greece. *Sustainable Cities and Society*, **2015**, 19, 281-291	10.1	37
236	Field survey on multi-family buildings in order to depict their energy characteristics. *International Journal of Sustainable Energy*, **2015**, 34, 271-281	2.7	6
235	Design, construction and monitoring of a near-zero energy laboratory building in Cyprus. *Advances in Building Energy Research*, **2015**, 9, 140-150	1.8	8
234	On the impact of urban overheating and extreme climatic conditions on housing, energy, comfort and environmental quality of vulnerable population in Europe. *Energy and Buildings*, **2015**, 98, 125-133	7	149
233	An integrated evaluation study of the ventilation rate, the exposure and the indoor air quality in naturally ventilated classrooms in the Mediterranean region during spring. *Science of the Total Environment*, **2015**, 502, 557-70	10.2	63
232	On the impact of urban heat island and global warming on the power demand and electricity consumption of buildings A review. *Energy and Buildings*, **2015**, 98, 119-124	7	430
231	Model Development and Comparison for the Evaluation of the Energy Performance of Three Tertiary Institutional Buildings in Singapore. *Procedia Engineering*, **2015**, 121, 1133-1143		7
230	Forecasting Energy Consumption of Institutional Buildings in Singapore. *Procedia Engineering*, **2015**, 121, 1734-1740		20
229	The Mitigative Potential of Urban Environments and Their Microclimates. *Buildings*, **2015**, 5, 783-801	3.2	7
228	Mitigation countermeasures to face urban warming. *International Journal of Low-Carbon Technologies*, **2015**, 10, 1-2	2.8	
227	Integrated Evaluation of the Performance of Composite Cool Thermal Insulation Materials. *Energy Procedia*, **2015**, 78, 1581-1586	2.3	11
226	Development and analysis of advanced inorganic coatings for buildings and urban structures. *Energy and Buildings*, **2015**, 89, 196-205	7	35
225	Regulating the damaged thermostat of the cities Status, impacts and mitigation challenges. *Energy and Buildings*, **2015**, 91, 43-56	7	144
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