Mat Santamouris

List of Publications by Citations

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	Cooling the cities □A review of reflective and green roof mitigation technologies to fight heat island and improve comfort in urban environments. *Solar Energy*, **2014**, 103, 682-703	6.8	888
415	On the impact of urban climate on the energy consumption of buildings. *Solar Energy*, **2001**, 70, 201-216	6.8	584
414	Using advanced cool materials in the urban built environment to mitigate heat islands and improve thermal comfort conditions. *Solar Energy*, **2011**, 85, 3085-3102	6.8	561
413	Using cool pavements as a mitigation strategy to fight urban heat island□A review of the actual developments. *Renewable and Sustainable Energy Reviews*, **2013**, 26, 224-240	16.2	446
412	Analysis of the green roof thermal properties and investigation of its energy performance. *Energy and Buildings*, **2001**, 33, 719-729	7	432
411	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
410	On the development, optical properties and thermal performance of cool colored coatings for the urban environment. *Solar Energy*, **2007**, 81, 488-497	6.8	388
409	Estimating the effect of using cool coatings on energy loads and thermal comfort in residential buildings in various climatic conditions. *Energy and Buildings*, **2007**, 39, 1167-1174	7	355
408	On the energy impact of urban heat island and global warming on buildings. *Energy and Buildings*, **2014**, 82, 100-113	7	350
407	A study of the thermal performance of reflective coatings for the urban environment. *Solar Energy*, **2006**, 80, 968-981	6.8	320
406	Passive cooling of outdoor urban spaces. The role of materials. *Solar Energy*, **2004**, 77, 231-249	6.8	310
405	Passive cooling dissipation techniques for buildings and other structures: The state of the art. *Energy and Buildings*, **2013**, 57, 74-94	7	267
404	Development and testing of thermochromic coatings for buildings and urban structures. *Solar Energy*, **2009**, 83, 538-551	6.8	245
403	Analyzing the heat island magnitude and characteristics in one hundred Asian and Australian cities and regions. *Science of the Total Environment*, **2015**, 512-513, 582-598	10.2	238
402	Cooling the buildings □past, present and future. *Energy and Buildings*, **2016**, 128, 617-638	7	234
401	Heat Island Research in Europe: The State of the Art. *Advances in Building Energy Research*, **2007**, 1, 123-150	1.8	234
400	The effect of the Athens heat island on air conditioning load. *Energy and Buildings*, **2000**, 32, 131-141	7	226

399	Modeling and predicting building's energy use with artificial neural networks: Methods and results. *Energy and Buildings*, **2006**, 38, 949-958	7	217
398	Using cool paving materials to improve microclimate of urban areas Design realization and results of the flisvos project. *Building and Environment*, **2012**, 53, 128-136	6.5	214
397	Investigating and analysing the energy and environmental performance of an experimental green roof system installed in a nursery school building in Athens, Greece. *Energy*, **2007**, 32, 1781-1788	7.9	201
396	On the Use of Cool Materials as a Heat Island Mitigation Strategy. *Journal of Applied Meteorology and Climatology*, **2008**, 47, 2846-2856	2.7	190
395	Experimental testing of cool colored thin layer asphalt and estimation of its potential to improve the urban microclimate. *Building and Environment*, **2011**, 46, 38-44	6.5	189
394	On the relation between the energy and social characteristics of the residential sector. *Energy and Buildings*, **2007**, 39, 893-905	7	180
393	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
392	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
391	Recent progress on passive cooling techniques: Advanced technological developments to improve survivability levels in low-income households. *Energy and Buildings*, **2007**, 39, 859-866	7	171
390	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
389	Forecasting diurnal cooling energy load for institutional buildings using Artificial Neural Networks. *Energy and Buildings*, **2016**, 121, 284-297	7	154
388	Modifications in energy demand in urban areas as a result of climate changes: an assessment for the southeast Mediterranean region. *Energy Conversion and Management*, **2001**, 42, 1647-1656	10.6	152
387	Experimental investigation of the air flow and indoor carbon dioxide concentration in classrooms with intermittent natural ventilation. *Energy and Buildings*, **2008**, 40, 1833-1843	7	151
386	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
385	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
384	Using intelligent clustering techniques to classify the energy performance of school buildings. *Energy and Buildings*, **2007**, 39, 45-51	7	145
383	Regulating the damaged thermostat of the cities Status, impacts and mitigation challenges. *Energy and Buildings*, **2015**, 91, 43-56	7	144
382	Review of occupancy sensing systems and occupancy modeling methodologies for the application in institutional buildings. *Energy and Buildings*, **2016**, 121, 344-349	7	133

381	On the application of the energy balance equation to predict ground temperature profiles. *Solar Energy*, **1997**, 60, 181-190	6.8	130
380	Experimental evaluation of night ventilation phenomena. *Energy and Buildings*, **1999**, 29, 141-154	7	128
379	Development and testing of PCM doped cool colored coatings to mitigate urban heat island and cool buildings. *Building and Environment*, **2011**, 46, 570-576	6.5	127
378	Determination of places in the great Athens area where the heat island effect is observed. *Theoretical and Applied Climatology*, **2002**, 71, 219-230	3	127
377	Retroreflective fa□ades for urban heat island mitigation: Experimental investigation and energy evaluations. *Applied Energy*, **2015**, 145, 8-20	10.7	126
376	On the impact of temperature on tropospheric ozone concentration levels in urban environments. *Journal of Earth System Science*, **2008**, 117, 227-236	1.8	126
375	Modelling the thermal performance of earth-to-air heat exchangers. *Solar Energy*, **1994**, 53, 301-305	6.8	126
374	Outdoor thermal sensation of pedestrians in a Mediterranean climate and a comparison with UTCI. *Building and Environment*, **2013**, 66, 82-95	6.5	125
373	On the thermal performance of low income housing during heat waves. *Energy and Buildings*, **2012**, 49, 69-77	7	125
372	Experimental and numerical assessment of the impact of increased roof reflectance on a school building in Athens. *Energy and Buildings*, **2012**, 55, 7-15	7	122
371	Green and cool roofs□urban heat island mitigation potential in European climates for office buildings under free floating conditions. *Solar Energy*, **2013**, 95, 118-130	6.8	121
370	On the efficiency of night ventilation techniques applied to residential buildings. *Energy and Buildings*, **2010**, 42, 1309-1313	7	118
369	Thermal and air flow characteristics in a deep pedestrian canyon under hot weather conditions. *Atmospheric Environment*, **1999**, 33, 4503-4521	5.3	118
368	Modelling the energy demand projection of the building sector in Greece in the 21st century. *Energy and Buildings*, **2012**, 49, 488-498	7	115
367	Evaluating thermal comfort conditions and health responses during an extremely hot summer in Athens. *Building and Environment*, **2011**, 46, 339-344	6.5	114
366	A methodology for economic efficient design of Net Zero Energy Buildings. *Energy and Buildings*, **2012**, 55, 765-778	7	109
365	Monitoring the effect of urban green areas on the heat island in Athens. *Environmental Monitoring and Assessment*, **2009**, 156, 275-92	3.1	109
364	Estimating the ecological footprint of the heat island effect over Athens, Greece. *Climatic Change*, **2007**, 80, 265-276	4.5	109

363	Simulation of the Urban Heat Island Phenomenon in Mediterranean Climates. *Pure and Applied Geophysics*, **2004**, 161, 429-451	2.2	106
362	Using principal component and cluster analysis in the heating evaluation of the school building sector. *Applied Energy*, **2010**, 87, 2079-2086	10.7	102
361	On the use of bioclimatic architecture principles in order to improve thermal comfort conditions in outdoor spaces. *Building and Environment*, **2007**, 42, 317-324	6.5	102
360	Experimental investigation of air flow and temperature distribution in deep urban canyons for natural ventilation purposes. *Energy and Buildings*, **2006**, 38, 367-376	7	101
359	On the energy consumption in residential buildings. *Energy and Buildings*, **2002**, 34, 727-736	7	99
358	Air tightness measurements of residential houses in Athens, Greece. *Building and Environment*, **2008**, 43, 398-405	6.5	98
357	On the cooling potential of night ventilation techniques in the urban environment. *Energy and Buildings*, **2005**, 37, 243-257	7	97
356	On the thermal characteristics and the mitigation potential of a medium size urban park in Athens, Greece. *Landscape and Urban Planning*, **2014**, 123, 73-86	7.7	96
355	Financial crisis and energy consumption: A household survey in Greece. *Energy and Buildings*, **2013**, 65, 477-487	7	92
354	Green and cool roofs urban heat island mitigation potential in tropical climate. *Solar Energy*, **2018**, 173, 597-609	6.8	90
353	Freezing the poor indoor environmental quality in low and very low income households during the winter period in Athens. *Energy and Buildings*, **2014**, 70, 61-70	7	90
352	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
351	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
350	Bioclimatic design of open public spaces in the historic centre of Tirana, Albania. *Sustainable Cities and Society*, **2011**, 1, 54-62	10.1	85
349	Analysis of the accuracy and sensitivity of eight models to predict the performance of earth-to-air heat exchangers. *Energy and Buildings*, **1992**, 18, 35-43	7	84
348	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
347	Use of buried pipes for energy conservation in cooling of agricultural greenhouses. *Solar Energy*, **1995**, 55, 111-124	6.8	79
346	Design and operation of a low energy consumption passive solar agricultural greenhouse. *Solar Energy*, **1994**, 52, 371-378	6.8	79

345	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
344	Energy conservation and retrofitting potential in Hellenic hotels. *Energy and Buildings*, **1996**, 24, 65-75	7	78
343	On the ground temperature profile for passive cooling applications in buildings. *Solar Energy*, **1996**, 57, 167-175	6.8	77
342	A surface heat island study of Athens using high-resolution satellite imagery and measurements of the optical and thermal properties of commonly used building and paving materials. *International Journal of Sustainable Energy*, **2009**, 28, 59-76	2.7	76
341	Passive solar agricultural greenhouses: A worldwide classification and evaluation of technologies and systems used for heating purposes. *Solar Energy*, **1994**, 53, 411-426	6.8	74
340	Passive cooling of the built environment - use of innovative reflective materials to fight heat islands and decrease cooling needs. *International Journal of Low-Carbon Technologies*, **2008**, 3, 71-82	2.8	73
339	Experimental study of temperature and airflow distribution inside an urban street canyon during hot summer weather conditionsPart I: Air and surface temperatures. *Building and Environment*, **2008**, 43, 1383-1392	6.5	73
338	On the characteristics of the summer urban heat island in Athens, Greece. *Sustainable Cities and Society*, **2011**, 1, 16-28	10.1	72
337	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
336	Advances on technical, policy and market aspects of cool roof technology in Europe: The Cool Roofs project. *Energy and Buildings*, **2012**, 55, 35-41	7	70
335	Use of the ground for heat dissipation. *Energy*, **1994**, 19, 17-25	7.9	70
334	Evaluation of the performance gap in industrial, residential & tertiary near-Zero energy buildings. *Energy and Buildings*, **2017**, 148, 58-73	7	69
333	ORME: A multicriteria rating methodology for buildings. *Building and Environment*, **2002**, 37, 579-586	6.5	69
332	Improving the microclimate in urban areas: a case study in the centre of Athens. *Building Services Engineering Research and Technology*, **2011**, 32, 53-71	2.3	68
331	On the energy efficiency of a prototype hybrid daylighting system. *Solar Energy*, **2005**, 79, 56-64	6.8	68
330	The total solar radiation time series simulation in Athens, using neural networks. *Theoretical and Applied Climatology*, **2000**, 66, 185-197	3	66
329	On the combination of air velocity and flow measurements in single sided natural ventilation configurations. *Energy and Buildings*, **1996**, 24, 155-165	7	66
328	Development and testing of photovoltaic pavement for heat island mitigation. *Solar Energy*, **2016**, 130, 148-160	6.8	66

327	Implementation of an integrated indoor environment and energy management system. *Energy and Buildings*, **2005**, 37, 93-99	7	65
326	On the performance of buildings coupled with earth to air heat exchangers. *Solar Energy*, **1995**, 54, 375-380	6.8	65
325	Urban environment influence on natural ventilation potential. *Building and Environment*, **2006**, 41, 395-406	6.5	64
324	Parametric prediction of the buried pipes cooling potential for passive cooling applications. *Solar Energy*, **1995**, 55, 163-173	6.8	64
323	Recent Progress in Daytime Radiative Cooling: Is It the Air Conditioner of the Future?. *Buildings*, **2018**, 8, 168	3.2	64
322	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
321	On the potential of retrofitting scenarios for offices. *Building and Environment*, **2002**, 37, 557-567	6.5	62
320	Studying the effect of cool coatings in street urban canyons and its potential as a heat island mitigation technique. *Sustainable Cities and Society*, **2014**, 13, 20-31	10.1	61
319	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
318	Urban Heat Island and Overheating Characteristics in Sydney, Australia. An Analysis of Multiyear Measurements. *Sustainability*, **2017**, 9, 712	3.6	61
317	Mortality Associated with High Ambient Temperatures, Heatwaves, and the Urban Heat Island in Athens, Greece. *Sustainability*, **2017**, 9, 606	3.6	60
316	Energy conservation in greenhouses with buried pipes. *Energy*, **1996**, 21, 353-360	7.9	60
315	Development of a model for urban heat island prediction using neural network techniques. *Sustainable Cities and Society*, **2011**, 1, 104-115	10.1	59
314	Experimental study of temperature and airflow distribution inside an urban street canyon during hot summer weather conditions. Part II: Airflow analysis. *Building and Environment*, **2008**, 43, 1393-1403	6.5	59
313	Predicting single sided natural ventilation rates in buildings. *Solar Energy*, **1995**, 55, 327-341	6.8	59
312	On the cooling potential of earth to air heat exchangers. *Energy Conversion and Management*, **1994**, 35, 395-402	10.6	59
311	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
310	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

309	On the cooling potential of cool roofs in cold climates: Use of cool fluorocarbon coatings to enhance the optical properties and the energy performance of industrial buildings. *Energy and Buildings*, **2014**, 69, 417-425	7	57
308	Development and analysis of mineral based coatings for buildings and urban structures. *Solar Energy*, **2012**, 86, 1648-1659	6.8	57
307	A neural network approach for modeling the Heat Island phenomenon in urban areas during the summer period. *Geophysical Research Letters*, **1999**, 26, 337-340	4.9	57
306	Design of a fuzzy set environment comfort system. *Energy and Buildings*, **1995**, 22, 81-87	7	57
305	Energy characteristics and savings potential in office buildings. *Solar Energy*, **1994**, 52, 59-66	6.8	56
304	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
303	Empirical calibration of thermal indices in an urban outdoor Mediterranean environment. *Building and Environment*, **2014**, 80, 283-292	6.5	54
302	Improving the Microclimate in a Dense Urban Area Using Experimental and Theoretical Techniques - The Case of Marousi, Athens. *International Journal of Ventilation*, **2012**, 11, 1-16	1.1	54
301	Cool roofs and cool pavements application in Acharnes, Greece. *Sustainable Cities and Society*, **2018**, 37, 466-474	10.1	54
300	Theoretical and experimental analysis of the thermal behaviour of a green roof system installed in two residential buildings in Athens, Greece. *International Journal of Energy Research*, **2009**, 33, 1059-1069	4.5	53
299	Comparing the energy performance of an electrochromic window under various control strategies. *Building and Environment*, **2007**, 42, 2829-2834	6.5	53
298	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
297	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
296	Forty years increase of the air ambient temperature in Greece: The impact on buildings. *Energy Conversion and Management*, **2013**, 74, 353-365	10.6	51
295	Active cool roof effect: impact of cool roofs on cooling system efficiency. *Advances in Building Energy Research*, **2013**, 7, 209-221	1.8	51
294	Modelling the earth temperature using multiyear measurements. *Energy and Buildings*, **1992**, 19, 1-9	7	51
293	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
292	Energy conservation strategies for sports centers: Part B. Swimming pools. *Energy and Buildings*, **1998**, 27, 123-135	7	50

291	Modeling the Global Solar Radiation on the Earth Surface Using Atmospheric Deterministic and Intelligent Data-Driven Techniques. *Journal of Climate*, **1999**, 12, 3105-3116	4.4	49
290	High-resolution spectral mapping of urban thermal properties with Unmanned Aerial Vehicles. *Building and Environment*, **2017**, 121, 215-224	6.5	47
289	A method for energy classification of hotels: A case-study of Greece. *Energy and Buildings*, **2012**, 55, 553-562	7	47
288	Passive retrofitting of office buildings to improve their energy performance and indoor environment: the OFFICE project. *Building and Environment*, **2002**, 37, 575-578	6.5	47
287	Analysis of experimental data on diffuse solar radiation in Athens, Greece, for building applications. *International Journal of Sustainable Energy*, **2003**, 23, 1-11	2.7	46
286	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
285	The influence of different ground covers on the heating potential of earth-to-air heat exchangers. *Renewable Energy*, **1996**, 7, 33-46	8.1	45
284	Development of a web based energy management system for University Campuses: The CAMP-IT platform. *Energy and Buildings*, **2016**, 123, 119-135	7	45
283	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
282	The Impact of Canyon Geometry on Intra Urban and Urban: Suburban Night Temperature Differences Under Warm Weather Conditions. *Pure and Applied Geophysics*, **2010**, 167, 1433-1449	2.2	44
281	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
280	Energy performance and energy conservation in health care buildings in hellas. *Energy Conversion and Management*, **1994**, 35, 293-305	10.6	43
279	Approaches to Outdoor Thermal Comfort Thresholds through Public Space Design: A Review. *Atmosphere*, **2018**, 9, 108	2.7	41
278	Experimental performance investigation of natural, mechanical and hybrid ventilation in urban environment. *Building and Environment*, **2008**, 43, 1373-1382	6.5	41
277	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
276	The influence of air temperature and humidity on human thermal comfort over the greater Athens area. *Sustainable Cities and Society*, **2014**, 10, 184-194	10.1	39
275	An energy-balanced analytic model for urban heat canyons: comparison with experimental data. *Advances in Building Energy Research*, **2013**, 7, 222-234	1.8	39
274	Using artificial neural networks to assess HVAC related energy saving in retrofitted office buildings. *Solar Energy*, **2018**, 163, 32-44	6.8	38

273	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
272	On the ground temperature below buildings. *Solar Energy*, **1995**, 55, 355-362	6.8	38
271	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
270	Dynamic impact of climate on the performance of daytime radiative cooling materials. *Solar Energy Materials and Solar Cells*, **2020**, 208, 110426	6.4	37
269	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
268	Numerical estimation of time lags and decrement factors for wall complexes including Multilayer Thermal Insulation, in two different climatic zones. *Applied Energy*, **2012**, 92, 480-491	10.7	37
267	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
266	Energy saving estimation for plug and lighting load using occupancy analysis. *Renewable Energy*, **2019**, 143, 1143-1161	8.1	36
265	Comparative monitoring of natural, hybrid and mechanical ventilation systems in urban canyons. *Energy and Buildings*, **2005**, 37, 503-513	7	36
264	Modeling ambient air temperature time series using neural networks. *Journal of Geophysical Research*, **1998**, 103, 19509-19517		36
263	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
262	Predicting the CO2 levels in buildings using deterministic and identified models. *Energy and Buildings*, **2016**, 127, 774-785	7	35
261	Development and analysis of advanced inorganic coatings for buildings and urban structures. *Energy and Buildings*, **2015**, 89, 196-205	7	35
260	Improving the performance of thermochromic coatings with the use of UV and optical filters tested under accelerated aging conditions. *International Journal of Low-Carbon Technologies*, **2015**, 10, 45-61	2.8	35
259	On the heating potential of buried pipes techniques application in Ireland. *Energy and Buildings*, **1996**, 24, 19-25	7	35
258	Energy consumption and the potential for energy conservation in school buildings in Hellas. *Energy*, **1994**, 19, 653-660	7.9	35
257	Building visual comfort control with fuzzy reasoning. *Energy Conversion and Management*, **1993**, 34, 17-28	10.6	35
256	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

255	Comparison of Conventional and Fuzzy Control of Indoor Air Quality in Buildings. *Journal of Intelligent and Fuzzy Systems*, **1996**, 4, 131-140	1.6	34
254	Natural convection heat transfer coefficients from vertical and horizontal surfaces for building applications. *Energy and Buildings*, **1994**, 20, 243-249	7	34
253	Increasing Green Infrastructure in Cities: Impact on Ambient Temperature, Air Quality and Heat-Related Mortality and Morbidity. *Buildings*, **2020**, 10, 233	3.2	32
252	Models of behavior change and residential energy use: a review of research directions and findings for behavior-based energy efficiency. *Advances in Building Energy Research*, **2014**, 8, 137-147	1.8	32
251	Experimental validation of a computational fluid dynamics code to predict the wind speed in street canyons for passive cooling purposes. *Solar Energy*, **2006**, 80, 423-434	6.8	32
250	Atmospheric Broadband Model for Computation of Solar Radiation at the Earth Surface. Application to Mediterranean Climate **2000**, 157, 829-860		32
249	Analysis of the summer discomfort index in Athens, Greece, for cooling purposes. *Energy and Buildings*, **1992**, 18, 51-56	7	32
248	Impact of ground cover on the efficiencies of earth-to-air heat exchangers. *Applied Energy*, **1994**, 48, 19-32	10.7	31
247	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
246	On the variability of summer air temperature during the last 28 years in Athens. *Journal of Geophysical Research*, **2007**, 112,		30
245	Indoor air quality in a metropolitan area metro using fuzzy logic assessment system. *Science of the Total Environment*, **2013**, 449, 461-9	10.2	29
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242	Indoor air-quality control by a fuzzy-reasoning machine in naturally ventilated buildings. *Applied Energy*, **1996**, 54, 11-28	10.7	29
241	Enhanced near-surface ozone under heatwave conditions in a Mediterranean island. *Scientific Reports*, **2018**, 8, 9191	4.9	29
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239	Energy study of a medieval tower, restored as a museum. *Energy and Buildings*, **2003**, 35, 951-961	7	28
238	On the use of the atmospheric heat sinks for heat dissipation. *Energy and Buildings*, **1991**, 17, 321-329	7	28

237	On the coupling of thermostatically controlled buildings with ground and night ventilation passive dissipation techniques. *Solar Energy*, **1997**, 60, 191-197	6.8	27
236	Thermal analysis and computer control of hybrid greenhouses with subsurface heat storage. *Bioresource Technology*, **1986**, 5, 161-173		27
235	Urban mitigation and building adaptation to minimize the future cooling energy needs. *Solar Energy*, **2020**, 204, 708-719	6.8	27
234	Microclimatic analysis as a prerequisite for sustainable urbanisation: Application for an urban regeneration project for a medium size city in the greater urban agglomeration of Athens, Greece. *Sustainable Cities and Society*, **2014**, 13, 230-236	10.1	26
233	Theoretical and experimental analysis of daylight performance for various shading systems. *Energy and Buildings*, **1996**, 24, 223-230	7	25
232	RENEWABLE ENERGIES AND ENERGY CONSERVATION TECHNOLOGIES FOR BUILDINGS IN SOUTHERN EUROPE. *International Journal of Solar Energy*, **1994**, 15, 69-79		25
231	Assessment of the radiative cooling potential of a collector using hourly weather data. *Energy*, **1994**, 19, 879-888	7.9	25
230	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
229	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
228	Integrated energetic approach for a controlable electrochromic device. *Energy and Buildings*, **2004**, 36, 415-422	7	23
227	PERFORMANCE EVALUATION OF PASSIVE AND HYBRID COOLING COMPONENTS FOR A HOTEL COMPLEX. *International Journal of Solar Energy*, **1990**, 9, 1-12		23
226	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
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