Luisa F Cabeza

List of Publications by Year in Descending Order

422 papers	22,100 citations	69 h-index	136 g-index
434 ext. papers	25,909 ext. citations	7.1 avg, IF	7.61 L-index

#	Paper	IF	Citations
422	Macro-porous permeability aspects of MgSO 4 salt hydrate foams for energy storage applications. *Journal of Applied Polymer Science*, **2022**, 139, 51924	2.9	0
421	Life Cycle Assessment (LCA) of Two Pneumatic Urban Waste Collection Systems Compared to Traditional Truck Collection in an Airport. *Sustainability*, **2022**, 14, 1109	3.6	0
420	Researchers perspective within responsible implementation with socio-technical approaches. An example from solar energy research centre in Chile. *Renewable and Sustainable Energy Reviews*, **2022**, 158, 112132	16.2	0
419	Experimental Assessment of the Influence of the Design on the Performance of Novel Evaporators with Latent Energy Storage Ability. *Applied Sciences (Switzerland)*, **2022**, 12, 1813	2.6	
418	A detailed energy analysis of a novel evaporator with latent thermal energy storage ability. *Applied Thermal Engineering*, **2022**, 201, 117844	5.8	4
417	Seasonal influence of leaf area index (LAI) on the energy performance of a green facade. *Building and Environment*, **2022**, 207, 108497	6.5	2
416	Bibliometric Map on Corrosion in Concentrating Solar Power Plants. *Energies*, **2022**, 15, 2619	3.1	1
415	Experimental steady-state and transient thermal performance of materials for thermal energy storage in building applications: From powder SS-PCMs to SS-PCM-based acrylic plaster. *Energy*, **2022**, 250, 123768	7.9	2
414	Trends in Research on Energy Efficiency in Appliances and Correlations with Energy Policies. *Energies*, **2022**, 15, 3047	3.1	1
413	Thermo-mechanical stability of concrete containing steel slag as aggregate after high temperature thermal cycles. *Solar Energy*, **2022**, 239, 59-73	6.8	1
412	Bayesian optimization for effective thermal conductivity measurement of thermal energy storage: An experimental and numerical approach. *Journal of Energy Storage*, **2022**, 52, 104795	7.8	2
411	Heat Transfer Enhancement for Latent Heat Storage Components **2022**, 675-693		
410	Performance enhancement of horizontal extension and thermal energy storage to an abandoned exploitation well and satellite LNG station integrated ORC system. *Applied Thermal Engineering*, **2022**, 118736	5.8	0
409	Simulated performance of a solar-assisted heat pump system including a phase-change storage tank for residential heating applications: A case study in Madrid, Spain. *Journal of Energy Storage*, **2021**, 47, 103615	7.8	1
408	A New Methodological Approach for the Evaluation of Scaling Up a Latent Storage Module for Integration in Heat Pumps. *Energies*, **2021**, 14, 7470	3.1	
407	High Temperature Sensible Storage Concrete Storage **2021**,		0
406	Introduction to the Section on Thermodynamics of Energy Storage **2021**,		

405	Introduction to Thermal Energy Storage and Technologies Definition **2021**,		
404	Life Cycle Assessment (LCA) of a Concentrating Solar Power (CSP) Plant in Tower Configuration with and without Thermal Energy Storage (TES). *Sustainability*, **2021**, 13, 3672	3.6	6
403	Life Cycle Assessment of an Innovative Hybrid Energy Storage System for Residential Buildings in Continental Climates. *Applied Sciences (Switzerland)*, **2021**, 11, 3820	2.6	1
402	Viscoelastic characterization of seven laminated glass interlayer materials from static tests. *Construction and Building Materials*, **2021**, 279, 122503	6.7	5
401	Thermo-acoustic and mechanical characterization of novel bio-based plasters: The valorisation of lignin as by-product from biomass extraction for green building applications. *Construction and Building Materials*, **2021**, 278, 122373	6.7	3
400	Influence of thermal treatments on the absorption and thermal properties of a clay mineral support used for shape-stabilization of fatty acids.. *Journal of Energy Storage*, **2021**, 36, 102427	7.8	6
399	Hybrid Cascade Heat Pump and Thermal-Electric Energy Storage System for Residential Buildings: Experimental Testing and Performance Analysis. *Energies*, **2021**, 14, 2580	3.1	7
398	A comprehensive review on sub-zero temperature cold thermal energy storage materials, technologies, and applications: State of the art and recent developments. *Applied Energy*, **2021**, 288, 116555	10.7	21
397	Shell-and-Tube Latent Heat Thermal Energy Storage Design Methodology with Material Selection, Storage Performance Evaluation, and Cost Minimization. *Applied Sciences (Switzerland)*, **2021**, 11, 4180	2.6	1
396	Life Cycle Assessment (LCA) of an Innovative Compact Hybrid Electrical-Thermal Storage System for Residential Buildings in Mediterranean Climate. *Sustainability*, **2021**, 13, 5322	3.6	2
395	Experimental Study of a Small-Size Vacuum Insulated Water Tank for Building Applications. *Sustainability*, **2021**, 13, 5329	3.6	1
394	Optimization of Design Variables of a Phase Change Material Storage Tank and Comparison of a 2D Implicit vs. 2D Explicit Model. *Energies*, **2021**, 14, 2605	3.1	2
393	Recent developments of thermal energy storage applications in the built environment: A bibliometric analysis and systematic review. *Applied Thermal Engineering*, **2021**, 189, 116666	5.8	28
392	Life cycle assessment and life cycle costing of an innovative component for refrigeration units. *Journal of Cleaner Production*, **2021**, 295, 126442	10.3	3
391	Trends and future perspectives on the integration of phase change materials in heat exchangers. *Journal of Energy Storage*, **2021**, 38, 102544	7.8	5
390	Researchers perception regarding socio-technical approaches implementation in their own research. Thermal energy storage researchers as example. *Renewable and Sustainable Energy Reviews*, **2021**, 143, 110936	16.2	1
389	Research progress and trends on the use of concrete as thermal energy storage material through bibliometric analysis. *Journal of Energy Storage*, **2021**, 38, 102562	7.8	4
388	Advanced Concrete Steam Accumulation Tanks for Energy Storage for Solar Thermal Electricity. *Energies*, **2021**, 14, 3896	3.1	1

387	Long-term loading and recovery of a laminated glass slab with three different interlayers. *Construction and Building Materials*, **2021**, 287, 122991	6.7	3
386	Which Building Services Are Considered to Have Impact on Climate Change?. *Energies*, **2021**, 14, 3917	3.1	0
385	Comparative study between heat pipe and shell-and-tube thermal energy storage. *Applied Thermal Engineering*, **2021**, 192, 116974	5.8	5
384	Experimental Study on Two PCM Macro-Encapsulation Designs in a Thermal Energy Storage Tank. *Applied Sciences (Switzerland)*, **2021**, 11, 6171	2.6	4
383	New phase change material storage concept including metal wool as heat transfer enhancement method for solar heat use in industry. *Journal of Energy Storage*, **2021**, 33, 101926	7.8	6
382	Biobased phase change materials for cooling in buildings **2021**, 291-302		
381	Embodied energy and embodied carbon of structural building materials: Worldwide progress and barriers through literature map analysis. *Energy and Buildings*, **2021**, 231, 110612	7	28
380	Advances in thermal energy storage systems: methods and applications **2021**, 37-54		14
379	Trends and gaps in global research of greenery systems through a bibliometric analysis. *Sustainable Cities and Society*, **2021**, 65, 102608	10.1	8
378	Introduction to thermal energy storage systems **2021**, 1-33		3
377	Waste heat recovery using thermal energy storage **2021**, 639-653		0
376	Active Thermal Energy Storage (TES) With Phase Change Materials (PCM) for High Temperature **2021**,		
375	Components. Thermal Energy Storage **2021**,		
374	Thermal energy storage systems for cooling in residential buildings **2021**, 595-623		
373	Improvement of Phase Change Materials (PCM) Used for Solar Process Heat Applications. *Molecules* , **2021**, 26,	4.8	7
372	An Innovative Solar-Biomass Energy System to Increase the Share of Renewables in Office Buildings. *Energies*, **2021**, 14, 914	3.1	7
371	An Overview of Bioplastic Research on Its Relation to National Policies. *Sustainability*, **2021**, 13, 7848	3.6	0
370	Improving Public Attitude towards Renewable Energy. *Energies*, **2021**, 14, 4521	3.1	7

369	Thermal reliability of organic-organic phase change materials and their shape-stabilized composites. *Journal of Energy Storage*, **2021**, 40, 102661	7.8	4
368	Thermal and mechanical degradation assessment in refractory concrete as thermal energy storage container material in concentrated solar plants. *Journal of Energy Storage*, **2021**, 40, 102790	7.8	1
367	Characterization of Supplementary Cementitious Materials and Fibers to Be Implemented in High Temperature Concretes for Thermal Energy Storage (TES) Application. *Energies*, **2021**, 14, 5190	3.1	2
366	A framework for sustainable evaluation of thermal energy storage in circular economy. *Renewable Energy*, **2021**, 175, 686-701	8.1	4
365	Experimental determination of thermal conductivity of fatty acid binary mixtures and their shape-stabilized composites. *Renewable Energy*, **2021**, 175, 1167-1173	8.1	1
364	Experimental analysis of a latent thermal energy storage system enhanced with metal foam. *Journal of Energy Storage*, **2021**, 41, 102860	7.8	5
363	Perspectives on thermal energy storage research. *Energy*, **2021**, 231, 120943	7.9	13
362	Analysis of thermal energy storage tanks and PV panels combinations in different buildings controlled through model predictive control. *Energy*, **2021**, 239, 122201	7.9	1
361	A comparative life cycle assessment between green walls and green facades in the Mediterranean continental climate. *Energy and Buildings*, **2021**, 249, 111236	7	6
360	Thermal and mechanical performance of cement paste under high temperature thermal cycles. *Solar Energy Materials and Solar Cells*, **2021**, 231, 111333	6.4	1
359	Techno-economic analysis of control strategies for heat pumps integrated into solar district heating systems. *Journal of Energy Storage*, **2021**, 42, 103011	7.8	1
358	Systematic review on model predictive control strategies applied to active thermal energy storage systems. *Renewable and Sustainable Energy Reviews*, **2021**, 149, 111385	16.2	10
357	Innovative cryogenic Phase Change Material (PCM) based cold thermal energy storage for Liquid Air Energy Storage (LAES) Numerical dynamic modelling and experimental study of a packed bed unit. *Applied Energy*, **2021**, 301, 117417	10.7	11
356	Thermal energy storage with phase change materials in solar power plants. Economic analysis. *Journal of Energy Storage*, **2021**, 43, 103184	7.8	4
355	Circular economy in the building and construction sector: A scientific evolution analysis. *Journal of Building Engineering*, **2021**, 44, 102704	5.2	33
354	3D characterization of a Boston Ivy double-skin green building facade using a LiDAR system. *Building and Environment*, **2021**, 206, 108320	6.5	3
353	Energy assessment based on semi-dynamic modelling of a photovoltaic driven vapour compression chiller using phase change materials for cold energy storage. *Renewable Energy*, **2021**, 163, 198-212	8.1	9
352	Effect of Climate Change and Occupant Behaviour on the Environmental Impact of the Heating and Cooling Systems of a Real Apartment. A Parametric Study through Life Cycle Assessment. *Energies*, **2021**, 14, 8356	3.1	0

351	Enabling Technologies for Sector Coupling: A Review on the Role of Heat Pumps and Thermal Energy Storage. *Energies*, **2021**, 14, 8195	3.1	2
350	Double-lap shear test on laminated glass specimens under diverse ageing conditions. *Construction and Building Materials*, **2020**, 249, 118784	6.7	3
349	Cathodic Protection Using Aluminum Metal in Chloride Molten Salts as Thermal Energy Storage Material in Concentrating Solar Power Plants. *Applied Sciences (Switzerland)*, **2020**, 10, 3724	2.6	6
348	The Role of Innovation in Industry Product Deployment: Developing Thermal Energy Storage for Concentrated Solar Power. *Energies*, **2020**, 13, 2943	3.1	2
347	Selection of the Appropriate Phase Change Material for Two Innovative Compact Energy Storage Systems in Residential Buildings. *Applied Sciences (Switzerland)*, **2020**, 10, 2116	2.6	20
346	Anodic Protection Assessment Using Alumina-Forming Alloys in Chloride Molten Salt for CSP Plants. *Coatings*, **2020**, 10, 138	2.9	11
345	Evaluation of volume change in phase change materials during their phase transition. *Journal of Energy Storage*, **2020**, 28, 101206	7.8	16
344	Comparative Analysis of Web of Science and Scopus on the Energy Efficiency and Climate Impact of Buildings. *Energies*, **2020**, 13, 409	3.1	37
343	Palm oil-based bio-PCM for energy efficient building applications: Multipurpose thermal investigation and life cycle assessment. *Journal of Energy Storage*, **2020**, 28, 101129	7.8	30
342	Tensile test on interlayer materials for laminated glass under diverse ageing conditions and strain rates. *Construction and Building Materials*, **2020**, 243, 118230	6.7	10
341	Recent Trends on Liquid Air Energy Storage: A Bibliometric Analysis. *Applied Sciences (Switzerland)*, **2020**, 10, 2773	2.6	27
340	Corrosion evaluation of eutectic chloride molten salt for new generation of CSP plants. Part 2: Materials screening performance. *Journal of Energy Storage*, **2020**, 29, 101381	7.8	15
339	Control Solutions for TES Applications **2020**,		
338	Morphological and Structural Evaluation of Hydration/Dehydration Stages of MgSO4 Filled Composite Silicone Foam for Thermal Energy Storage Applications. *Applied Sciences (Switzerland)*, **2020**, 10, 453	2.6	10
337	Novel geopolymer for use as a sensible storage option in high temperature thermal energy storage systems **2020**,		3
336	Frost detection method on evaporator in vapour compression systems. *International Journal of Refrigeration*, **2020**, 110, 75-82	3.8	3
335	Corrosion assessment of promising hydrated salts as sorption materials for thermal energy storage systems. *Renewable Energy*, **2020**, 150, 428-434	8.1	10
334	Sustainable adobe bricks with seagrass fibres. Mechanical and thermal properties characterization. *Construction and Building Materials*, **2020**, 239, 117669	6.7	20

333	Building thermal storage technology: Compensating renewable energy fluctuations. *Journal of Energy Storage*, **2020**, 27, 101147	7.8	12
332	Approach for the analysis of TES technologies aiming towards a circular economy: Case study of building-like cubicles. *Renewable Energy*, **2020**, 150, 589-597	8.1	14
331	Inter-building assessment of urban heat island mitigation strategies: Field tests and numerical modelling in a simplified-geometry experimental set-up. *Renewable Energy*, **2020**, 147, 1663-1675	8.1	21
330	Corrosion evaluation of eutectic chloride molten salt for new generation of CSP plants. Part 1: Thermal treatment assessment. *Journal of Energy Storage*, **2020**, 27, 101125	7.8	22
329	Behaviour of a concrete wall containing micro-encapsulated PCM after a decade of its construction. *Solar Energy*, **2020**, 200, 108-113	6.8	35
328	How internal heat loads of buildings affect the effectiveness of vertical greenery systems? An experimental study. *Renewable Energy*, **2020**, 151, 919-930	8.1	10
327	Research trends and perspectives of thermal management of electric batteries: Bibliometric analysis. *Journal of Energy Storage*, **2020**, 32, 101976	7.8	18
326	Improving the energy efficiency of passive PCM system using controlled natural ventilation. *Energy and Buildings*, **2020**, 228, 110483	7	20
325	Flexible heat pump integration to improve sustainable transition toward 4th generation district heating. *Energy Conversion and Management*, **2020**, 225, 113379	10.6	21
324	Dynamic Corrosion Test Using LiNO3 Containing Molten Salt for CSP Applications. *Applied Sciences (Switzerland)*, **2020**, 10, 4305	2.6	3
323	Experimental Devices to Investigate the Long-Term Stability of Phase Change Materials under Application Conditions. *Applied Sciences (Switzerland)*, **2020**, 10, 7968	2.6	5
322	Implementation of a solar-biomass system for multi-family houses: Towards 100% renewable energy utilization. *Renewable Energy*, **2020**, 166, 190-209	8.1	17
321	Experimental evaluation of different natural cold sinks integrated into a concrete façade. *Energy and Buildings*, **2020**, 228, 110466	7	
320	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. *Applied Sciences (Switzerland)*, **2020**, 10, 7873	2.6	6
319	Greenery System for Cooling Down Outdoor Spaces: Results of an Experimental Study. *Sustainability*, **2020**, 12, 5888	3.6	9
318	Economic evaluation of a hybrid heating system in different climate zones based on model predictive control. *Energy Conversion and Management*, **2020**, 221, 113205	10.6	4
317	Numerical study of dynamic melting enhancement in a latent heat thermal energy storage system. *Journal of Energy Storage*, **2020**, 31, 101664	7.8	9
316	A comparative life cycle assessment (LCA) of different insulation materials for buildings in the continental Mediterranean climate. *Energy and Buildings*, **2020**, 225, 110323	7	32

315	Performance Study of Direct Integration of Phase Change Material into an Innovative Evaporator of a Simple Vapour Compression System. *Applied Sciences (Switzerland)*, **2020**, 10, 4649	2.6	12
314	Assessing corrosive behaviour of commercial phase change materials in the 21–25 °C temperature range. *Journal of Energy Storage*, **2020**, 32, 101711	7.8	1
313	Bibliometric analysis of smart control applications in thermal energy storage systems. A model predictive control approach. *Journal of Energy Storage*, **2020**, 32, 101704	7.8	25
312	Systematic review on the use of heat pipes in latent heat thermal energy storage tanks. *Journal of Energy Storage*, **2020**, 32, 101733	7.8	18
311	Optimal control of natural ventilation as passive cooling strategy for improving the energy performance of building envelope with PCM integration. *Renewable Energy*, **2020**, 162, 171-181	8.1	39
310	Advances Toward a Net-Zero Global Building Sector. *Annual Review of Environment and Resources*, **2020**, 45, 227-269	17.2	37
309	Assessment of the Impact of Occupants' Behavior and Climate Change on Heating and Cooling Energy Needs of Buildings. *Energies*, **2020**, 13, 6468	3.1	4
308	Polymeric interlayer materials for laminated glass: A review. *Construction and Building Materials*, **2020**, 230, 116897	6.7	38
307	A framework for the optimal integration of solar assisted district heating in different urban sized communities: A robust machine learning approach incorporating global sensitivity analysis. *Applied Energy*, **2020**, 267, 114903	10.7	17
306	Technological options and strategies towards zero energy buildings contributing to climate change mitigation: A systematic review. *Energy and Buildings*, **2020**, 219, 110009	7	62
305	Synthesis and Thermophysical Characterization of Fatty Amides for Thermal Energy Storage. *Molecules*, **2019**, 24,	4.8	4
304	Evaluation of the behavior of an innovative thermally activated building system (TABS) with PCM for an efficient design. *E3S Web of Conferences*, **2019**, 111, 03043	0.5	3
303	Phenomenological modelling of phase transitions with hysteresis in solid/liquid PCM. *Journal of Building Performance Simulation*, **2019**, 12, 770-788	2.8	18
302	TES-PS10 postmortem tests: Carbon steel corrosion performance exposed to molten salts under relevant operation conditions and lessons learnt for commercial scale-up. *Journal of Energy Storage* , **2019**, 26, 100922	7.8	4
301	Modeling global and regional potentials for building-integrated solar energy generation. *Energy and Buildings*, **2019**, 198, 329-339	7	15
300	Life cycle assessment (LCA) of a pneumatic municipal waste collection system compared to traditional truck collection. Sensitivity study of the influence of the energy source. *Journal of Cleaner Production*, **2019**, 231, 1122-1135	10.3	14
299	Magnesium sulphate-silicone foam composites for thermochemical energy storage: Assessment of dehydration behaviour and mechanical stability. *Solar Energy Materials and Solar Cells*, **2019**, 200, 109992	6.4	20
298	Sustainability and social justice dimension indicators for applied renewable energy research: A responsible approach proposal. *Applied Energy*, **2019**, 252, 113429	10.7	6

297	Corrosion Assessment of Myo-Inositol Sugar Alcohol as a Phase Change Material in Storage Systems Connected to Fresnel Solar Plants. *Molecules*, **2019**, 24,	4.8	5
296	Assessing the Potentiality of Animal Fat Based-Bio Phase Change Materials (PCM) for Building Applications: An Innovative Multipurpose Thermal Investigation. *Energies*, **2019**, 12, 1111	3.1	15
295	Corrosion evaluation of alumina-forming alloys in carbonate molten salt for CSP plants. *Renewable Energy*, **2019**, 140, 227-233	8.1	25
294	Mainstreaming commercial CSP systems: A technology review. *Renewable Energy*, **2019**, 140, 152-176	8.1	103
293	Asphalt emulsion formulation: State of the art of formulation, properties and results of HIPR emulsions. *Construction and Building Materials*, **2019**, 212, 19-26	6.7	11
292	Experimental evaluation of the use of fins and metal wool as heat transfer enhancement techniques in a latent heat thermal energy storage system. *Energy Conversion and Management*, **2019**, 184, 530-538	10.6	43
291	Effect of the impurity magnesium nitrate in the thermal decomposition of the solar salt. *Solar Energy*, **2019**, 192, 186-192	6.8	8
290	Thermal energy storage (TES) with phase change materials (PCM) in solar power plants (CSP). Concept and plant performance. *Applied Energy*, **2019**, 254, 113646	10.7	77
289	Comparative Analysis of Energy Demand and CO2 Emissions on Different Typologies of Residential Buildings in Europe. *Energies*, **2019**, 12, 2436	3.1	7
288	Feasibility Study of Freeze Recovery Options in Parabolic Trough Collector Plants Working with Molten Salt as Heat Transfer Fluid. *Energies*, **2019**, 12, 2340	3.1	5
287	Cool Roof Impact on Building Energy Need: The Role of Thermal Insulation with Varying Climate Conditions. *Energies*, **2019**, 12, 3354	3.1	20
286	Innovative composite sorbent for thermal energy storage based on a SrBr2□6H2O filled silicone composite foam. *Journal of Energy Storage*, **2019**, 26, 100954	7.8	11
285	Thermal energy storage in solar energy systems: editorial. *Solar Energy*, **2019**, 192, 1-2	6.8	5
284	Molten salt corrosion mechanisms of nitrate based thermal energy storage materials for concentrated solar power plants: A review. *Solar Energy Materials and Solar Cells*, **2019**, 194, 160-165	6.4	40
283	Experimental Characterization of Latent Thermal Energy Storage Systems. *Green Energy and Technology*, **2019**, 173-200	0.6	
282	Latent Thermal Energy Storage. *Green Energy and Technology*, **2019**, 9-13	0.6	1
281	Characterization of Materials for Sensible Thermal Energy Storage at High Temperature. *Green Energy and Technology*, **2019**, 69-88	0.6	0
280	Corrosion Characterization in Components for Thermal Energy Storage Applications. *Green Energy and Technology*, **2019**, 139-169	0.6	1

279	Experimental Methods for the Characterization of Materials for Latent Thermal Energy Storage. *Green Energy and Technology*, **2019**, 89-101	0.6	1
278	Sensible Thermal Energy Storage at High Temperatures. *Green Energy and Technology*, **2019**, 3-7	0.6	
277	Definition of Performance Indicators for Thermal Energy Storage. *Green Energy and Technology*, **2019**, 227-242	0.6	
276	On an innovative approach for microclimate enhancement and retrofit of historic buildings and artworks preservation by means of innovative thin envelope materials. *Journal of Cultural Heritage*, **2019**, 36, 222-231	2.9	12
275	Experimental results of mechanical, adhesive, and laminated connections for laminated glass elements □A review. *Engineering Structures*, **2019**, 180, 192-204	4.7	17
274	Evaluation of energy density as performance indicator for thermal energy storage at material and system levels. *Applied Energy*, **2019**, 235, 954-962	10.7	29
273	Corrosion monitoring and mitigation techniques on advanced thermal energy storage materials for CSP plants. *Solar Energy Materials and Solar Cells*, **2019**, 192, 179-187	6.4	29
272	Benchmarking of useful phase change materials for a building application. *Energy and Buildings*, **2019**, 182, 45-50	7	35
271	Influence of the storage period between charge and discharge in a latent heat thermal energy storage system working under partial load operating conditions. *Applied Energy*, **2019**, 235, 1389-1399	10.7	18
270	Economic and environmental potential for solar assisted central heating plants in the EU residential sector: Contribution to the 2030 climate and energy EU agenda. *Applied Energy*, **2019**, 236, 318-339	10.7	25
269	Life cycle costing as a bottom line for the life cycle sustainability assessment in the solar energy sector: A review. *Solar Energy*, **2019**, 192, 238-262	6.8	26
268	Green Roofs to Enhance the Thermal Performance of Buildings and Outdoor Comfort **2018**, 109-117		3
267	Use of partial load operating conditions for latent thermal energy storage management. *Applied Energy*, **2018**, 216, 234-242	10.7	23
266	Geometry optimization of a heat storage system for concentrated solar power plants (CSP). *Renewable Energy*, **2018**, 123, 227-235	8.1	13
265	New formulation and characterization of enhanced bulk-organic phase change materials. *Energy and Buildings*, **2018**, 167, 38-48	7	14
264	Two-tank molten salts thermal energy storage system for solar power plants at pilot plant scale: Lessons learnt and recommendations for its design, start-up and operation. *Renewable Energy*, **2018**, 121, 236-248	8.1	35
263	Multifunctional smart concretes with novel phase change materials: Mechanical and thermo-energy investigation. *Applied Energy*, **2018**, 212, 1448-1461	10.7	69
262	Steam-PCM heat exchanger design and materials optimization by using Cr-Mo alloys. *Solar Energy Materials and Solar Cells*, **2018**, 178, 249-258	6.4	2

261	Estimating the industrial waste heat recovery potential based on CO2 emissions in the European non-metallic mineral industry. *Energy Efficiency*, **2018**, 11, 427-443	3	12
260	Thermal stress reduction in cool roof membranes using phase change materials (PCM). *Energy and Buildings*, **2018**, 158, 1097-1105	7	41
259	Renewable energy research and technologies through responsible research and innovation looking glass: Reflexions, theoretical approaches and contemporary discourses. *Applied Energy*, **2018**, 211, 792-808	10.7	30
258	Comparison of past projections of global and regional primary and final energy consumption with historical data. *Renewable and Sustainable Energy Reviews*, **2018**, 82, 681-688	16.2	22
257	Thermomechanical testing under operating conditions of A516Gr70 used for CSP storage tanks. *Solar Energy Materials and Solar Cells*, **2018**, 174, 509-514	6.4	5
256	Experimental set-up for testing active and passive systems for energy savings in buildings Lessons learnt. *Renewable and Sustainable Energy Reviews*, **2018**, 82, 1014-1026	16.2	36
255	Influence of nanoparticle morphology and its dispersion ability regarding thermal properties of water used as phase change material. *Applied Thermal Engineering*, **2018**, 128, 121-126	5.8	21
254	Experimental testing of cooling internal loads with a radiant wall. *Renewable Energy*, **2018**, 116, 1-8	8.1	26
253	Vertical Greening Systems for Acoustic Insulation and Noise Reduction **2018**, 157-165		6
252	Assessment of the hydration/dehydration behaviour of MgSO4H2O filled cellular foams for sorption storage applications through morphological and thermo-gravimetric analyses. *Sustainable Materials and Technologies*, **2018**, 17, e00073	5.3	11
251	Experimental analysis of the effective thermal conductivity enhancement of PCM using finned tubes in high temperature bulk tanks. *Applied Thermal Engineering*, **2018**, 142, 736-744	5.8	37
250	Phase Change Material Selection for Thermal Energy Storage at High Temperature Range between 210 C and 270 C. *Energies*, **2018**, 11, 861	3.1	21
249	Effect of PCM on the Hydration Process of Cement-Based Mixtures: A Novel Thermo-Mechanical Investigation. *Materials*, **2018**, 11,	3.5	12
248	Static Concept at University of Lleida **2018**, 131-156		
247	Environmental Approach **2018**, 277-295		2
246	Study of the Thermal Properties and the Fire Performance of Flame Retardant-Organic PCM in Bulk Form. *Materials*, **2018**, 11,	3.5	13
245	Integration of renewable technologies in historical and heritage buildings: A review. *Energy and Buildings*, **2018**, 177, 96-111	7	59
244	Optimization of deterministic controls for a cooling radiant wall coupled to a PV array. *Applied Energy*, **2018**, 229, 1103-1110	10.7	6

243	Optimized demand side management (DSM) of peak electricity demand by coupling low temperature thermal energy storage (TES) and solar PV. *Applied Energy*, **2018**, 211, 604-616	10.7	79
242	Thermal energy storage evaluation in direct steam generation solar plants. *Solar Energy*, **2018**, 159, 501-509	5.9	38
241	Combining biocatalysts to achieve new phase change materials. Application to non-edible animal fat. *Molecular Catalysis*, **2018**, 444, 76-83	3.3	5
240	Control concepts of a radiant wall working as thermal energy storage for peak load shifting of a heat pump coupled to a PV array. *Renewable Energy*, **2018**, 118, 489-501	8.1	23
239	Enthalpy-temperature plots to compare calorimetric measurements of phase change materials at different sample scales. *Journal of Energy Storage*, **2018**, 15, 32-38	7.8	22
238	Trends in penetration and ownership of household appliances. *Renewable and Sustainable Energy Reviews*, **2018**, 82, 4044-4059	16.2	10
237	Development and experimental validation of a transient 2D numeric model for radiant walls. *Renewable Energy*, **2018**, 115, 859-870	8.1	10
236	Multi-Country Analysis on Energy Savings in Buildings by Means of a Micro-Solar Organic Rankine Cycle System: A Simulation Study. *Environments - MDPI*, **2018**, 5, 119	3.2	2
235	Model predictive control strategy applied to different types of building for space heating. *Applied Energy*, **2018**, 231, 959-971	10.7	32
234	Thermo-acoustic performance of green roof substrates in dynamic hygrothermal conditions. *Energy and Buildings*, **2018**, 178, 140-153	7	12
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