CITATION REPORT List of articles citing

Review of passive PCM latent heat thermal energy storage systems towards buildings energy efficiency

DOI: 10.1016/j.enbuild.2012.12.042 Energy and Buildings, 2013, 59, 82-103.

Source: https://exaly.com/paper-pdf/55889258/citation-report.pdf

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
696	Dynamics of external wall structures with a PCM (phase change materials) in high latitude countries. <i>Energy</i> , 2013 , 59, 301-313	7.9	40
695	Modeling and simulation to determine the potential energy savings by implementing cold thermal energy storage system in office buildings. 2013 , 75, 152-161		28
694	A simplified dynamic model of double layers shape-stabilized phase change materials wallboards. <i>Energy and Buildings</i> , 2013 , 67, 508-516	7	21
693	Numerical Investigation of Fins Effect for Melting Process of Phase Change Materials. 2013,		1
692	Phase-Change Materials Use in Nearly Zero Energy Building Refurbishment. 2013, 537-553		1
691	Clathrate Hydrates for Thermal Energy Storage in Buildings: Overview of Proper Hydrate-Forming Compounds. 2014 , 6, 6815-6829		48
690	The Effectiveness of PCM Wallboards for the Energy Refurbishment of Lightweight Buildings. 2014 , 62, 13-21		26
689	A Review of the Performance of Buildings Integrated with Phase Change Material: Opportunities for Application in Cold Climate. 2014 , 62, 318-328		20
688	Application of Phase Change Materials to Reduce the Risk of Overheating of Building Interior. 2014 , 899, 479-483		2
687	Experimental study of heat storage in a PCM incorporated into a residential premises walls. 2014,		2
686	Optimization of thermal performance of building integrated solar collector with Phase Change Material. 2014 ,		1
685	Building Refurbishment for Energy Performance. 2014,		5
684	Numerical Analysis of the Energy Improvement of Plastering Mortars with Phase Change Materials. 2014 , 2014, 1-12		7
683	Functionalization of mortars for controlling the indoor ambient of buildings. <i>Energy and Buildings</i> , 2014 , 70, 224-236	7	31
682	The Ekihouse: An energy self-sufficient house based on passive design strategies. <i>Energy and Buildings</i> , 2014 , 83, 57-69	7	22
681	Thermal conductivity and latent heat thermal energy storage properties of LDPE/wax as a shape-stabilized composite phase change material. 2014 , 77, 586-596		77
680	Phase change materials integrated in building walls: A state of the art review. 2014 , 31, 870-906		389

(2014-2014)

679	Experimental study of the phase change heat transfer inside a horizontal cylindrical latent heat energy storage system. 2014 , 82, 100-110		109
678	Numerical evaluation of a phase change materialaBhutter using solar energy for winter nighttime indoor heating. 2014 , 37, 367-394		17
677	Thermal performance of an aluminum honeycomb wallboard incorporating microencapsulated PCM. <i>Energy and Buildings</i> , 2014 , 73, 37-47	7	50
676	Multi-dimensional optimization of the incorporation of PCM-drywalls in lightweight steel-framed residential buildings in different climates. <i>Energy and Buildings</i> , 2014 , 70, 411-421	7	98
675	Experimental assessment of position of macro encapsulated phase change material in concrete walls on indoor temperatures and humidity levels. <i>Energy and Buildings</i> , 2014 , 71, 80-87	7	99
674	A comprehensive feasibility study of applying solar energy to design a zero energy building for a typical home in Tehran. <i>Energy and Buildings</i> , 2014 , 72, 329-339	7	52
673	Optimization of filler distribution for organic phase change material composites: Numerical investigation and entropy analysis. 2014 , 132, 543-550		6
672	Passive Utilization of Solar Energy in a Building. 2014 , 133-171		1
671	Development and evaluation of a ceiling ventilation system enhanced by solar photovoltaic thermal collectors and phase change materials. 2014 , 88, 218-230		95
670	Optimization of PCM embedded in a floor panel developed for thermal management of the lightweight envelope of buildings. <i>Energy and Buildings</i> , 2014 , 82, 385-390	7	57
669	Latent Thermal Energy Storage. 2014 , 83-126		1
668	Thermal behavior of cement based plastering mortar containing hybrid microencapsulated phase change materials. <i>Energy and Buildings</i> , 2014 , 84, 526-536	7	67
667	Thermo-physical characterization of some paraffins used as phase change materials for thermal energy storage. 2014 , 117, 557-566		39
666	Development of surrogate models using artificial neural network for building shell energy labelling. 2014 , 69, 457-466		54
665	Experimental Results of a 3 kWh Thermochemical Heat Storage Module for Space Heating Application. 2014 , 48, 320-326		45
664	Fabrication and stability of form-stable diatomite/paraffin phase change material composites. <i>Energy and Buildings</i> , 2014 , 76, 284-294	7	130
663	Environmental profile of latent energy storage materials applied to industrial systems. 2014 , 473-474, 565-75		21
662	Performance of novel thermal energy storage engineered cementitious composites incorporating a paraffin/diatomite composite phase change material. 2014 , 121, 114-122		74

661	Thermal performance of building element containing phase change material (PCM) integrated with ventilation system âl'An experimental study. <i>Applied Thermal Engineering</i> , 2014 , 70, 665-674	5.8	50
660	Heat transfer characteristics of thermal energy storage of a composite phase change materials: Numerical and experimental investigations. <i>Energy</i> , 2014 , 72, 381-392	7.9	47
659	Method for Estimating the Temperature Distribution in a Phase Change Material with a Broad Phase-change-temperature Range. 2015 , 78, 1678-1683		2
658	An energy retrofitting methodology of Mediterranean historical buildings. 2015 , 26, 984-997		6
657	DEVELOPMENT OF SYSTEM FOR REDUCING FRESH AIR LOAD BY USING SOLAR COLLECTOR AND PCM IN COLD REGION. 2015 , 80, 117-126		2
656	NZEBs in Mediterranean Climates: Energy Design and Optimization for a Non-residential Building. 2015 , 82, 458-464		5
655	Poly(methyl methacrylate) copolymer nanocapsules containing phase-change material (n-dodecanol) prepared via miniemulsion polymerization. 2015 , 132, n/a-n/a		12
654	Argamassas com incorporati de Materiais de Mudanti de Fase (PCM): Caracterizati filica, mecfiica e durabilidade. 2015 , 20, 245-261		2
653	Energy Efficiency Indicators for Assessing Construction Systems Storing Renewable Energy: Application to Phase Change Material-Bearing Falldes. <i>Energies</i> , 2015 , 8, 8630-8649	3.1	6
652	Energy and Environmental Evaluation of Non-Transparent Constructions of Building Envelope for Wooden Houses. <i>Energies</i> , 2015 , 8, 11047-11075	3.1	16
651	Preparation, Mechanical and Thermal Properties of Cement Board with Expanded Perlite Based Composite Phase Change Material for Improving Buildings Thermal Behavior. <i>Materials</i> , 2015 , 8, 7702-7	7721-3	24
650	An experimental and numerical simulation study of an active solar wall enhanced with phase change materials. 2015 , 3, 71-80		6
649	Energy retrofit of an educational building in the ancient center of Benevento. Feasibility study of energy savings and respect of the historical value. <i>Energy and Buildings</i> , 2015 , 95, 172-183	7	109
648	Numerical analysis on thermal performance of roof contained PCM of a single residential building. 2015 , 100, 147-156		145
647	Control strategies for integration of thermal energy storage into buildings: State-of-the-art review. <i>Energy and Buildings</i> , 2015 , 106, 203-215	7	55
646	Low-energy residential buildings in New Borg El Arab: Simulation and survey based energy assessment. <i>Energy and Buildings</i> , 2015 , 93, 65-82	7	21
645	A novel solar absorption refrigeration system using the multi-stage heat storage method. <i>Energy and Buildings</i> , 2015 , 102, 157-162	7	11
644	Latent Heat Storage in Plasters with Incorporated PCM Water Dispersion. 2015 , 824, 1-6		O

(2015-2015)

643	Enthalpy-temperature Evaluation of Slurry Phase Change Materials with T-history Method. 2015 , 78, 1877-1882		9
642	Experimental investigation and performance analysis of a fin tube phase change cold storage unit for high temperature cooling application. <i>Energy and Buildings</i> , 2015 , 89, 9-17	7	27
641	Fire safety aspects of PCM-enhanced gypsum plasterboards: An experimental and numerical investigation. 2015 , 72, 50-58		31
640	Thermal analysis by DSC of Phase Change Materials, study of the damage effect. <i>Journal of Building Engineering</i> , 2015 , 1, 13-19	5.2	38
639	Experimental study of the heat transfer through a vertical stack of rectangular cavities filled with phase change materials. 2015 , 142, 192-205		26
638	Parametric investigations of using a PCM curtain for energy efficient buildings. <i>Energy and Buildings</i> , 2015 , 94, 33-42	7	16
637	Developments in organic solidâllquid phase change materials and their applications in thermal energy storage. 2015 , 95, 193-228		456
636	Phase change materials and products for building applications: A state-of-the-art review and future research opportunities. <i>Energy and Buildings</i> , 2015 , 94, 150-176	7	316
635	Thermal properties of shape-stabilized phase change materials using fatty acid ester and exfoliated graphite nanoplatelets for saving energy in buildings. 2015 , 143, 168-173		82
634	The preparation of the hydrotalcite-based composite phase change material. 2015 , 156, 207-212		12
633	Uncertainty propagation and sensitivity analysis of thermo-physical properties of phase change materials (PCM) in the energy demand calculations of a test cell with passive latent thermal storage. <i>Applied Thermal Engineering</i> , 2015 , 90, 596-608	5.8	26
632	Study on functional and mechanical properties of cement mortar with graphite-modified microencapsulated phase-change materials. <i>Energy and Buildings</i> , 2015 , 105, 273-284	7	75
631	Development of carbon nanotube modified cement paste with microencapsulated phase-change material for structural-functional integrated application. 2015 , 16, 8027-39		40
630	PCM thermal storage system for âfreeâlheating and cooling of buildings. <i>Energy and Buildings</i> , 2015 , 106, 125-133	7	110
629	Experimental Thermal Performance Analysis of Building Components Containing Phase Change Material (PCM). 2015 , 108, 428-435		8
628	Thermal performance analysis of a solar energy sourced latent heat storage. 2015 , 50, 1213-1225		47
627	Numerical modeling of thermal behaviors of active multi-layer living wall. <i>Energy and Buildings</i> , 2015 , 106, 96-110	7	22
626	The design, properties, and performance of concrete masonry blocks with phase change materials. 2015 , 231-248		1

625	Numerical study on ground source heat pump integrated with phase change material cooling storage system in office building. <i>Applied Thermal Engineering</i> , 2015 , 87, 615-623	5.8	33
624	Phase change materials and thermal energy storage for buildings. <i>Energy and Buildings</i> , 2015 , 103, 414-	-4 / 19	361
623	Properties evaluation and applications of thermal energystorage materials in buildings. 2015 , 48, 500-5	522	43
622	Development of structuralafunctional integrated concrete with macro-encapsulated PCM for thermal energy storage. 2015 , 150, 245-257		81
621	Energy efficient thermal storage montmorillonite with phase change material containing exfoliated graphite nanoplatelets. 2015 , 139, 65-70		61
620	Heat transfer characteristics of thermal energy storage for PCM (phase change material) melting in horizontal tube: Numerical and experimental investigations. <i>Energy</i> , 2015 , 85, 339-352	7.9	31
619	Phase change materials (PCMs) integrated into transparent building elements: a review. 2015 , 4, 1		46
618	Performance of a window shutter with phase change material under summer Mediterranean climate conditions. <i>Applied Thermal Engineering</i> , 2015 , 84, 246-256	5.8	61
617	Assessing the feasibility of impregnating phase change materials in lightweight aggregate for development of thermal energy storage systems. <i>Construction and Building Materials</i> , 2015 , 89, 48-59	6.7	64
616	A new validated TRNSYS module for simulating latent heat storage walls. <i>Energy and Buildings</i> , 2015 , 109, 274-290	7	39
615	Review on phase change material based free cooling of buildingsâ\(\mathbb{I}\)he way toward sustainability. Journal of Energy Storage, 2015 , 4, 74-88	7.8	57
614	A novel paraffin/expanded perlite composite phase change material for prevention of PCM leakage in cementitious composites. 2015 , 157, 85-94		185
613	Using of phase change materials in building energy systems. 2015 ,		1
612	A state-of-the-art review on hybrid heat pipe latent heat storage systems. 2015 , 105, 1178-1204		66
611	Thermal properties of phase-change materials based on high-density polyethylene filled with micro-encapsulated paraffin wax for thermal energy storage. <i>Energy and Buildings</i> , 2015 , 88, 144-152	7	60
610	Effect of phase change materials on indoor thermal environment under different weather conditions and over a long time. 2015 , 140, 329-337		52
609	Spectral and angular solar properties of a PCM-filled double glazing unit. <i>Energy and Buildings</i> , 2015 , 87, 302-312	7	81
608	Utilization of macro encapsulated phase change materials for the development of thermal energy storage and structural lightweight aggregate concrete. 2015 , 139, 43-55		114

607	Thermal energy storage (TES) systems for cooling in residential buildings. 2015 , 549-572		5
606	Phase-change characteristics and thermal performance of form-stable n -alkanes/silica composite phase change materials fabricated by sodium silicate precursor. <i>Renewable Energy</i> , 2015 , 74, 689-698	8.1	68
605	Modeling and Optimization of the Thermal Performance of a Wood-Cement Block in a Low-Energy House Construction. <i>Energies</i> , 2016 , 9, 677	3.1	10
604	Cement-Based Renders Manufactured with Phase-Change Materials: Applications and Feasibility. 2016 , 2016, 1-6		18
603	Thermal Performance Evaluation of Fatty Acid Ester and Paraffin Based Mixed SSPCMs Using Exfoliated Graphite Nanoplatelets (xGnP). 2016 , 6, 106		22
602	Code-to-Code Validation and Application of a Dynamic Simulation Tool for the Building Energy Performance Analysis. <i>Energies</i> , 2016 , 9, 301	3.1	19
601	Heat Transfer and Energy Performance of a PVA Wall Tile Containing Macro-Encapsulated PCM. <i>Energies</i> , 2016 , 9, 652	3.1	9
600	Preparation and Characterization of Microencapsulated Phase Change Materials for Use in Building Applications. <i>Materials</i> , 2015 , 9,	3.5	25
599	Performance of Modular Prefabricated Architecture: Case Study-Based Review and Future Pathways. 2016 , 8, 558		78
598	Quasi-stationary phase change heat transfer on a fin. 2016 , 114, 02086		2
598 597	Quasi-stationary phase change heat transfer on a fin. 2016 , 114, 02086 Application of Phase Change Materials to Reduce Heat Related Risks During Extreme Heat Waves in Australian Dwellings. 2016 , 88, 725-731		7
	Application of Phase Change Materials to Reduce Heat Related Risks During Extreme Heat Waves		
597	Application of Phase Change Materials to Reduce Heat Related Risks During Extreme Heat Waves in Australian Dwellings. 2016 , 88, 725-731 Thermal performance of a window shutter containing PCM: Numerical validation and experimental	2.3	7
597 596	Application of Phase Change Materials to Reduce Heat Related Risks During Extreme Heat Waves in Australian Dwellings. 2016, 88, 725-731 Thermal performance of a window shutter containing PCM: Numerical validation and experimental analysis. 2016, 179, 64-84 Application of Fatty Acid Based Phase-Change Material to Reduce Energy Consumption From Roofs	2.3	7
597 596 595	Application of Phase Change Materials to Reduce Heat Related Risks During Extreme Heat Waves in Australian Dwellings. 2016, 88, 725-731 Thermal performance of a window shutter containing PCM: Numerical validation and experimental analysis. 2016, 179, 64-84 Application of Fatty Acid Based Phase-Change Material to Reduce Energy Consumption From Roofs of Buildings. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2016, 138, Hybrid diagnosis to characterise the energy and environmental enhancement of photovoltaic		7 62 9
597596595594	Application of Phase Change Materials to Reduce Heat Related Risks During Extreme Heat Waves in Australian Dwellings. 2016, 88, 725-731 Thermal performance of a window shutter containing PCM: Numerical validation and experimental analysis. 2016, 179, 64-84 Application of Fatty Acid Based Phase-Change Material to Reduce Energy Consumption From Roofs of Buildings. Journal of Solar Energy Engineering, Transactions of the ASME, 2016, 138, Hybrid diagnosis to characterise the energy and environmental enhancement of photovoltaic modules using smart materials. Energy, 2016, 101, 174-189 Research on temperature dependent effective thermal conductivity of composite-phase change materials (PCMs) wall based on steady-state method in a thermal chamber. Energy and Buildings,	7.9	7 62 9
597596595594593	Application of Phase Change Materials to Reduce Heat Related Risks During Extreme Heat Waves in Australian Dwellings. 2016, 88, 725-731 Thermal performance of a window shutter containing PCM: Numerical validation and experimental analysis. 2016, 179, 64-84 Application of Fatty Acid Based Phase-Change Material to Reduce Energy Consumption From Roofs of Buildings. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2016, 138, Hybrid diagnosis to characterise the energy and environmental enhancement of photovoltaic modules using smart materials. <i>Energy</i> , 2016, 101, 174-189 Research on temperature dependent effective thermal conductivity of composite-phase change materials (PCMs) wall based on steady-state method in a thermal chamber. <i>Energy and Buildings</i> , 2016, 126, 408-414 Experimental assessment on the use of phase change materials (PCMs)-bricks in the exterior wall of	7.9	7 62 9 40 31

589	Investigation on the properties of a new type of concrete blocks incorporated with PEG/SiO2 composite phase change material. 2016 , 104, 172-177		41
588	Bio-inspired effective and regenerable building cooling using tough hydrogels. 2016 , 168, 332-339		27
587	Phase change materials (PCM) for cooling applications in buildings: A review. <i>Energy and Buildings</i> , 2016 , 129, 396-431	7	384
586	Mechanical properties of concrete containing phase-change material. 2016 , 39, 521-530		13
585	High temperature phase change materials for the overheating protection of facade integrated solar thermal collectors. <i>Energy and Buildings</i> , 2016 , 124, 1-6	7	23
584	Parametric analysis for performance enhancement of phase change materials in naturally ventilated buildings. <i>Energy and Buildings</i> , 2016 , 124, 35-45	7	39
583	Characterization of calcium chloride tetrahydrate as a phase change material and thermodynamic analysis of the results. <i>Renewable Energy</i> , 2016 , 95, 213-224	8.1	14
582	Some aspects of energy efficient building envelope in high latitude countries. 2016 , 133, 194-206		10
581	Thermal performance analysis of PCM components heat storage using mechanical ventilation: Experimental results. <i>Energy and Buildings</i> , 2016 , 123, 169-178	7	14
580	Control strategies comparison of a ventilated facade with PCM âlenergy savings, cost reduction and CO2 mitigation. <i>Energy and Buildings</i> , 2016 , 130, 821-828	7	15
579	Industrial waste heat recovery using an enhanced conductivity latent heat thermal energy storage. 2016 , 183, 491-503		80
578	Thermal performance and cost analysis of mortars made with PCM and different binders. Construction and Building Materials, 2016, 122, 637-648	6.7	36
577	Investigation of PCM as retrofitting option to enhance occupant thermal comfort in a modern residential building. <i>Energy and Buildings</i> , 2016 , 133, 217-229	7	77
576	Influence of adding phase change materials on the physical and mechanical properties of cement mortars. <i>Construction and Building Materials</i> , 2016 , 127, 1-10	6.7	67
575	Numerical investigation of transient thermal behavior of a wall incorporating a phase change material via a hybrid scheme. 2016 , 78, 200-206		7
574	Thermogravimetric study of a Phase Change Slurry: Effect of variable conditions. <i>Applied Thermal Engineering</i> , 2016 , 107, 329-338	5.8	2
573	Experimental Research of a Partition Composed of Two Layers of Different Types of PCM. 2016 , 91, 259-	-268	3
572	Experimental assessment on a kind of composite wall incorporated with shape-stabilized phase change materials (SSPCMs). <i>Energy and Buildings</i> , 2016 , 128, 567-574	7	31

(2016-2016)

571	Analysis of micro-dispersed PCM-composite boards behavior in a building's wall for different seasons. <i>Journal of Building Engineering</i> , 2016 , 7, 361-371	5.2	24
570	Novel process for performance enhancement of a solar continuous adsorption cooling system. <i>Energy</i> , 2016 , 114, 10-23	7.9	24
569	Novel Multiphase Change Materials for Energy Storage Application in Buildings. 2016,		
568	Thermal analysis of melting and freezing processes of phase change materials (PCMs) based on dynamic DSC test. <i>Energy and Buildings</i> , 2016 , 130, 388-396	7	28
567	Modeling of Building Envelope's Thermal Properties by Applying Phase Change Materials. 2016 , 95, 175	5-180	8
566	Thermal and electrical performance of an integrated PV-PCM system in double skin falldes: A numerical study. 2016 , 136, 112-124		83
565	Phase-change materials. 2016 , 179-218		5
564	Influence of PCMs in thermal insulation on thermal behaviour of building envelopes. <i>Journal of Physics: Conference Series</i> , 2016 , 745, 032138	0.3	1
563	Micro-Grid Energy Storage Location and Sizing Optimization Method Based on Demand Response. 2016 ,		1
562	Model of a thermal driven volumetric pump for energy harvesting in an underwater glider. <i>Energy</i> , 2016 , 112, 28-42	7.9	16
561	Absorption and desorption of hydrogen in long metal hydride tank equipped with phase change material jacket. 2016 , 41, 9595-9610		47
560	Reducing heat loss through the building envelope by using polyurethane foams containing thermoregulating microcapsules. <i>Applied Thermal Engineering</i> , 2016 , 103, 226-232	5.8	41
559	Recent developments in geometrical configurations of thermal energy storage for concentrating solar power plant. 2016 , 59, 320-327		108
558	Nano-enhanced phase change materials for improved building performance. 2016 , 58, 1256-1268		109
557	Experimental evaluation of the heat transfer through small PCM-based thermal energy storage units for building applications. <i>Energy and Buildings</i> , 2016 , 116, 18-34	7	32
556	Experimental investigation of latent heat storage in a coil in PCM storage unit. <i>Journal of Energy Storage</i> , 2016 , 5, 177-186	7.8	54
555	Experimental and numerical study on transient thermal energy storage of microencapsulated phase change material particles in an enclosure. 2016 , 94, 191-198		10
554	The State of the Art for Technologies Used to Decrease Demand in Buildings: Thermal Energy Storage. 2016 , 319-348		1

553	Types, methods, techniques, and applications for microencapsulated phase change materials (MPCM): A review. 2016 , 53, 1059-1075		286
552	Dynamic building energy performance analysis: A new adaptive control strategy for stringent thermohygrometric indoor air requirements. 2016 , 163, 361-386		31
551	Polymers with Nano-Encapsulated Functional Polymers: Encapsulated Phase Change Materials. 2016 , 155-169		5
550	Thermal characterization of phase change materials based on linear low-density polyethylene, paraffin wax and expanded graphite. <i>Renewable Energy</i> , 2016 , 88, 372-382	8.1	90
549	Feasibility of small-scale cold energy storage (CES) through carbon dioxide based Rankine cycle. Journal of Energy Storage, 2016 , 6, 40-49	7.8	8
548	Thermal energy storage for renewable heating and cooling systems. 2016 , 139-179		6
547	Positioning of an isothermal heat storage layer in a building wall exposed to the external environment. 2016 , 9, 542-554		22
546	Solar thermal energy storage and heat pumps with phase change materials. <i>Applied Thermal Engineering</i> , 2016 , 99, 1212-1224	5.8	97
545	Thermal analysis of phase change material board (PCMB) under weather conditions in the summer. <i>Applied Thermal Engineering</i> , 2016 , 99, 690-702	5.8	19
544	Prospects of energy conservation and management in buildings âlThe Saudi Arabian scenario versus global trends. 2016 , 58, 1647-1663		44
543	Energy efficient concrete with n-octadecane/xGnP SSPCM for energy conservation in infrastructure. <i>Construction and Building Materials</i> , 2016 , 106, 543-549	6.7	24
542	Thermal performance investigation and optimization of buildings with integrated phase change materials and solar photovoltaic thermal collectors. <i>Energy and Buildings</i> , 2016 , 116, 562-573	7	57
541	Numerical techniques to model conduction dominant phase change systems: A CFD approach and validation with DSC curve. <i>Energy and Buildings</i> , 2016 , 118, 240-248	7	13
540	Latent heat storage in building elements: A systematic review on properties and contextual performance factors. 2016 , 60, 852-866		50
539	Mechanical and thermal characterization of concrete with incorporation of microencapsulated PCM for applications in thermally activated slabs. <i>Construction and Building Materials</i> , 2016 , 112, 639-647	6.7	46
538	Economic impact of integrating PCM as passive system in buildings using Fanger comfort model. <i>Energy and Buildings</i> , 2016 , 112, 159-172	7	109
537	Design and Application of Concrete Tiles Enhanced with Microencapsulated Phase-Change Material. 2016 , 22, 05015003		17
536	Optimal behavior of responsive residential demand considering hybrid phase change materials. 2016 , 163, 81-92		43

535	Application of weather forecast in conjunction with price-based method for PCM solar passive buildings âlʿAn experimental study. 2016 , 163, 9-18		45
534	Experimental and numerical studies of hybrid PCM embedded in plastering mortar for enhanced thermal behaviour of buildings. <i>Energy</i> , 2016 , 94, 250-261	7.9	83
533	Passive thermal control in residential buildings using phase change materials. 2016 , 55, 371-398		182
532	A hierarchical scheduling and control strategy for thermal energy storage systems. <i>Energy and Buildings</i> , 2016 , 110, 94-107	7	46
531	Literature review on the use of phase change materials in glazing and shading solutions. 2016 , 53, 515-	-535	109
530	Improvement of thermal conductivity of paraffin by adding expanded graphite. 2016 , 50, 2589-2601		12
529	Numerical simulation on the thermal performance of hydraulic floor heating system with phase change materials. <i>Applied Thermal Engineering</i> , 2016 , 93, 900-907	5.8	21
528	Innovative technologies for NZEBs: An energy and economic analysis tool and a case study of a non-residential building for the Mediterranean climate. <i>Energy and Buildings</i> , 2016 , 121, 318-343	7	55
527	Thermal energy storage in building integrated thermal systems: A review. Part 2. Integration as passive system. <i>Renewable Energy</i> , 2016 , 85, 1334-1356	8.1	155
526	Investigation of the effects of thermal, oxidative and irradiation treatments on the behaviour of poly-ethylene glycol as a phase change material in thermal energy storage systems. <i>Energy</i> , 2017 , 136, 196-200	7.9	7
525	Solar wall enhanced with phase-change materials: a detailed numerical simulation study. 2017 , 11, 87-1	103	7
524	Computational assessment of a full-scale Mediterranean building incorporating wallboards with phase change materials. 2017 , 26, 1429-1443		7
523	Nano-PCMs for enhanced energy storage and passive cooling applications. <i>Applied Thermal Engineering</i> , 2017 , 110, 584-589	5.8	132
522	Assessing the feasibility of integrating form-stable phase change material composites with cementitious composites and prevention of PCM leakage. 2017 , 192, 88-91		48
521	Assessment of design strategies in a ground source heat pump system. <i>Energy and Buildings</i> , 2017 , 138, 301-308	7	15
520	Simulation-based analysis of the use of PCM-wallboards to reduce cooling energy demand and peak-loads in low-rise residential heavyweight buildings in Kuwait. 2017 , 10, 481-495		33
519	Zinc-rich eutectic alloys for high energy density latent heat storage applications. 2017 , 705, 714-721		26
518	A facile hydrothermal preparation for phase change materials microcapsules with a pliable self-recovering shell and study on its thermal energy storage properties. 2017 , 312, 144-151		18

517	Definition of a new set of parameters for the dynamic thermal characterization of PCM layers in the presence of one or more liquid-solid interfaces. <i>Energy and Buildings</i> , 2017 , 141, 379-396	7	25
516	Epoxy-Based Organogels for Thermally Reversible Light Scattering Films and Form-Stable Phase Change Materials. 2017 , 9, 11126-11133		26
515	Benefits of PCM underfloor heating with PCM wallboards for space heating in winter. 2017 , 191, 593-60	02	97
514	Methodologies for Selection of Thermal Insulation Materials for Cost-Effective, Sustainable, and Energy-Efficient Retrofitting. 2017 , 23-55		2
513	Phase Change Materials for Application in Energy-Efficient Buildings. 2017, 57-118		21
512	Preparation and Characterization of High-Temperature Non-Flowing Diurea/Paraffin/Oil Composites as Form-Stable Phase Change Materials. 2017 , 35, 1079-1085		5
511	Experimental study of a modified solar phase change material storage wall system. <i>Energy</i> , 2017 , 128, 224-231	7.9	35
510	Evaluating the passive and free cooling application methods of phase change materials in residential buildings: A comparative study. <i>Energy and Buildings</i> , 2017 , 148, 238-256	7	28
509	A review on current advances in the energy and environmental performance of buildings towards a more sustainable built environment. 2017 , 77, 845-860		119
508	Analysis of melting with natural convection and volumetric radiation using lattice Boltzmann method. 2017 , 112, 413-426		6
507	Thermal Performance of an Office Cubicle Integrated with a Bio-based PCM: Experimental Analyses. 2017 , 111, 609-618		18
506	Fabrication and characterization of form-stable capric-palmitic-stearic acid ternary eutectic mixture/nano-SiO2 composite phase change material. <i>Energy and Buildings</i> , 2017 , 147, 41-46	7	41
505	Energy efficiency and thermal performance of lightweight steel-framed (LSF) construction: A review. 2017 , 78, 194-209		66
504	Experimental and Numerical Studies of the Thermal Performance of a Metallic Lattice Structure Filled with Phase-Change Material. 2017 , 143, 04017039		6
503	Passive cooling potential in buildings under various climatic conditions in India. 2017 , 78, 1236-1252		49
502	Using PCM embedded in building material for thermal management: Performance assessment study. <i>Energy and Buildings</i> , 2017 , 151, 28-34	7	35
501	Breathing walls: The design of porous materials for heat exchange and decentralized ventilation. <i>Energy and Buildings</i> , 2017 , 149, 246-259	7	32
500	A Comparative Study on the Effectiveness of Passive and Free Cooling Application Methods of Phase Change Materials for Energy Efficient Retrofitting in Residential Buildings. 2017 , 180, 993-1002		15

499	Phase change materials and carbon nanostructures for thermal energy storage: A literature review. 2017 , 79, 1212-1228	119
498	Computer simulations of heat transfer in a building integrated heat storage unit made of PCM composite. <i>Thermal Science and Engineering Progress</i> , 2017 , 2, 109-118	15
497	Multiphase-Change Materials for Energy Storage Application in Buildings. 2017 , 31, 791-795	4
496	Thermal performance assessment of phase change material integrated cementitious composites in buildings: Experimental and numerical approach. 2017 , 207, 654-664	69
495	Effect of Supercooling on the Solidification Process of the Phase Change Material. 2017 , 105, 4321-4327	16
494	Phase Change Materials as Smart Nanomaterials for Thermal Energy Storage in Buildings. 2017 , 247-293	1
493	Experimental and numerical investigations on the thermal performance of building plane containing CaCl2[6H2O/expanded graphite composite phase change material. 2017 , 193, 325-335	92
492	Energy performance evaluation of heat-storage gypsum board with hybrid SSPCM composite. 2017 , 51, 237-243	17
491	Utilization of the PCM latent heat for energy savings in buildings. 2017,	1
490	Thermal characterization of polyurethane foams with phase change material. 2017 , 29, 1-7	6
489	Development of thermal energy storage cementitious composites (TESC) containing a novel paraffin/hydrophobic expanded perlite composite phase change material. 2017 , 158, 626-635	50
488	Experimental studies on the applications of PCMs and nano-PCMs in buildings: A critical review. Energy and Buildings, 2017 , 154, 96-112	162
487	Theoretical predictions for latent heats and phase-change temperatures of polycrystalline PCMs. 2017 ,	1
486	The Application of Carbon Materials in Latent Heat Thermal Energy Storage (LHTES). 2017 , 243-265	4
485	Indoor thermal comfort assessment using different constructive solutions incorporating PCM. 2017 , 208, 1208-1221	51
484	Thermal performance of CaCl 2 lbH 2 O/expanded perlite composite phase change boards embedded in aluminous gusset plates for building energy conservation. <i>Energy and Buildings</i> , 2017 , 7 155, 484-491	18
483	Thermal Behavior of a Building Provided With Phase-Change Materials on the Roof and Exposed to Solar Radiation. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2017 , 139,	10
482	Research on composite-phase change materials (PCMs)-bricks in the west wall of room-scale cubicle: Mid-season and summer day cases. 2017 , 123, 494-503	43

481	Building Envelope Systems with Transparent Solid-Solid Phase Changing Material. 2017,		1
480	Thermal Energy Storage Enhancement of Lightweight Cement Mortars with the Application of Phase Change Materials. 2017 , 180, 1170-1177		32
479	Augmenting Energy Flexibility in the Factory Environment. 2017 , 61, 434-439		10
478	Parametric analysis of domestic refrigerators using PCM heat exchanger. 2017 , 83, 1-13		23
477	A highly efficient solution of off-sunshine solar air heating using two packed beds of latent storage energy. 2017 , 155, 1243-1253		39
476	A numerical study of building integrated with CaCl2[6H2O/expanded graphite composite phase change material. <i>Applied Thermal Engineering</i> , 2017 , 126, 480-488	5.8	27
475	Preparation and thermal properties of octyl, decyl, dodecyl and tetradecyl stearates as phase change materials for thermal energy storage. <i>Energy and Buildings</i> , 2017 , 152, 442-447	7	7
474	Experimental analysis of thermal performance in buildings with shape-stabilized phase change materials. <i>Energy and Buildings</i> , 2017 , 152, 524-533	7	34
473	Development and thermal performance of an expanded perlite-based phase change material wallboard for passive cooling in building. <i>Energy and Buildings</i> , 2017 , 152, 547-557	7	50
472	Numerical and experimental investigation of an insulation layer with phase change materials (PCMs). <i>Energy and Buildings</i> , 2017 , 153, 231-240	7	50
471	Polyurethane foams with microencapsulated phase change material: Comparative analysis of thermal conductivity characterization approaches. <i>Energy and Buildings</i> , 2017 , 153, 392-402	7	27
470	Experimental and numerical investigation of low melting point metal based PCM heat sink with internal fins. 2017 , 87, 118-124		59
469	Fabrication of three-dimensional metal-graphene network phase change composite for high thermal conductivity and suppressed subcooling phenomena. 2017 , 149, 608-615		27
468	An experimental investigation of discharge/solidification cycle of paraffin in novel shell and tube with longitudinal fins based latent heat storage system. 2017 , 154, 157-167		59
467	A review on phase change material application in building. 2017 , 9, 168781401770082		60
466	Method for the Thermal Characterization of PCM Systems in the Volume Range from 100 ml to 1000 ml. 2017 , 38, 1		5
465	An evaluation methodology proposal for building envelopes containing phase change materials: the case of a flat roof in Turkeyâll climate zones. 2017 , 60, 408-423		7
464	Optimization of seasonal storage for community-level energy systems: status and needs. 2017 , 2, 169-1	81	10

463	Development of thermal enhanced n-octadecane/porous nano carbon-based materials using 3-step filtered vacuum impregnation method. 2017 , 655, 194-201	27
462	Restrained shrinkage cracking of cementitious composites containing soft PCM inclusions: A paste (matrix) controlled response. 2017 , 132, 367-374	12
461	Towards modern options of energy conservation in buildings. <i>Renewable Energy</i> , 2017 , 101, 1194-1202 8.1	39
460	Influence of internal thermal mass on the indoor thermal dynamics and integration of phase change materials in furniture for building energy storage: A review. 2017 , 69, 19-32	77
459	A Review of PCM Energy Storage Technology Used in Buildings for the Global Warming Solution. 2017 , 611-644	10
458	Melting of nanoparticle-enhanced paraffin wax in a rectangular enclosure with partially active walls. 2017 , 104, 7-17	89
457	Determining influences of SiO2 encapsulation on thermal energy storage properties of different phase change materials. 2017 , 159, 1-7	85
456	Modeling of heat capacity peaks and enthalpy jumps of phase-change materials used for thermal energy storage. 2017 , 107, 123-132	19
455	Discharging performance of a forced-circulation ice thermal storage system for a permanent refuge chamber in an underground mine. <i>Applied Thermal Engineering</i> , 2017 , 110, 703-709	17
454	Review of current state of research on energy storage, toxicity, health hazards and commercialization of phase changing materials. 2017 , 67, 581-596	152
453	Passive Cooling Using Phase Change Material and Insulation for High-rise Office Building in Tropical Climate. 2017 , 142, 2295-2302	12
452	Characterization of Concrete Mixes Containing Phase Change Materials. 2017 , 251, 012118	5
451	A Numerical Study to Investigate the Heat Transfer and Thermodynamic Performance of a Natural Convection Driven Thermal Energy Storage System. 2017 ,	2
450	Thermal impact study of a bio-based wall coupled with an inner PCM layer. 2017 , 139, 10-15	5
449	Moisture buffer capacity of cement-lime plasters with enhanced thermal storage capacity. 2017,	3
448	Modeling of thermal fluid dynamics of radiant panels system in cooling mode by using a neural approach. 2017 ,	О
447	. 2017,	0
446	Transpired solar collectors energy efficiency improvement using inertial materials. 2017,	1

445	Preparation and Properties of Neopentyl Glycol/Epoxy Resin Composite Phase Change Material for Thermal Energy Storage. 2017 , 673-682		
444	PCMs for Residential Building Applications: A Short Review Focused on Disadvantages and Proposals for Future Development. <i>Buildings</i> , 2017 , 7, 78	3.2	62
443	Effect of Summer Ventilation on the Thermal Performance and Energy Efficiency of Buildings Utilizing Phase Change Materials. <i>Energies</i> , 2017 , 10, 1214	3.1	10
442	Comparative Research on Solar Phase Change Material Storage Wall Systems under Different Summer Working Conditions. <i>Energies</i> , 2017 , 10, 1878	3.1	2
441	Review on Phase Change Materials and Its Applications in Buildings: Case Study of Egypt. <i>SSRN Electronic Journal</i> , 2017 ,	1	
440	Phase Change Material with Thermal Energy Storage System and its Applications: A Systematic Review. 2017 , 10, 1-10		1
439	Optimization of the level and range of working temperature of the PCM in the gypsum-microencapsulated PCM thermal energy storage unit for summer conditions in Central Poland. 2017 , 251, 012117		1
438	A Non-Ventilated Solar Fatide Concept Based on Selective and Transparent Insulation Material Integration: An Experimental Study. <i>Energies</i> , 2017 , 10, 815	3.1	12
437	Energy Efficiency of Lightweight Steel-Framed Buildings. 2017,		1
436	Comportamento trmico de argamassas com incorpora ö de Materiais de Mudanā de Fase (PCM) no clima portuguā. 2017 , 22,		
435	A NEW PHASE-CHANGE MATERIAL EXPERIMENTAL METHOD AND THERMAL BEHAVIOR CALCULATION METHOD. 2017 , 82, 853-862		
434	Finned heat pipe assisted low melting point metal PCM heat sink against extremely high power thermal shock. 2018 , 160, 467-476		60
433	An integrated energy performance-driven generative design methodology to foster modular lightweight steel framed dwellings in hot climates. 2018 , 44, 21-36		25
432	Porous materials in building energy technologiesâl review of the applications, modelling and experiments. 2018 , 91, 229-247		94
431	Physical and Mechanical Properties of Cement Mortars with Direct Incorporation of Phase Change Material. 2018 , 203-209		
430	Nanoencapsulation of phase change materials for advanced thermal energy storage systems. 2018 , 47, 4156-4175		250
429	A numerical study of adaptive building enclosure systems using solidaBolid phase change materials with variable transparency. <i>Energy and Buildings</i> , 2018 , 167, 240-252	7	27
428	Thermo-physical characteristics, mechanical performance and long-term stability of high temperature latent heat storages based on paraffin-polymer compounds. 2018 , 663, 34-45		10

427	Overheating protection of solar thermal falldes with latent heat storages based on paraffin-polymer compounds. <i>Energy and Buildings</i> , 2018 , 169, 254-259	7	16
426	Benefits of latent thermal energy storage in the retrofit of Canadian high-rise residential buildings. 2018 , 11, 709-723		26
425	Improving indoor thermal comfort by using phase change materials: A review. <i>International Journal of Energy Research</i> , 2018 , 42, 2084-2103	4.5	53
424	Probing the Rayleighâ B enard convection phase change mechanism of low-melting-point metal via lattice Boltzmann method. 2018 , 73, 34-54		17
423	Diatomite/CNTs/PEG composite PCMs with shape-stabilized and improved thermal conductivity: Preparation and thermal energy storage properties. <i>Energy and Buildings</i> , 2018 , 164, 166-175	7	109
422	A systematic review of Prefabricated Enclosure Wall Panel Systems: Focus on technology driven for performance requirements. <i>Sustainable Cities and Society</i> , 2018 , 40, 688-703	10.1	7
421	Thermal Performance Evaluation of Building Roofs Embedded PCM for Multi-climatic Zones. 2018 , 401-	-423	5
420	Thermal and optical characterisation of dynamic shading systems with PCMs through laboratory experimental measurements. <i>Energy and Buildings</i> , 2018 , 163, 92-110	7	12
419	Multiobjective optimization of a building envelope with the use of phase change materials (PCMs) in Mediterranean climates. <i>International Journal of Energy Research</i> , 2018 , 42, 3030-3047	4.5	25
418	Thermal enhancement of paraffin/hydrophobic expanded perlite granular phase change composite using graphene nanoplatelets. <i>Energy and Buildings</i> , 2018 , 169, 206-215	7	37
417	A review of the applications of phase change materials in cooling, heating and power generation in different temperature ranges. 2018 , 220, 242-273		270
416	Numerical investigation on paraffin/expanded graphite composite phase change material based latent thermal energy storage system with double spiral coil tube. <i>Applied Thermal Engineering</i> , 2018 , 137, 164-172	5.8	24
415	Experimental investigation of free cooling using phase change material-filled air heat exchanger for energy efficiency in buildings. 2018 , 12, 139-149		14
414	Improving Heat Transfer Through Paraffin Wax, by Using Fins and Metallic Strips. 2018 , 43, 4433-4441		8
413	PCM-mortar based construction materials for energy efficient buildings: A review on research trends. <i>Energy and Buildings</i> , 2018 , 158, 95-122	7	99
412	Life cycle analysis (LCA) and life cycle cost analysis (LCCA) of phase change materials (PCM) for thermal applications: A review. <i>International Journal of Energy Research</i> , 2018 , 42, 3068-3077	4.5	29
411	Study on a tankless solar heating system using phase-change material plaster. 2018 , 127, 256-267		5
410	Critical review of latent heat storage systems for free cooling in buildings. 2018 , 82, 2843-2868		114

409	Advanced low-carbon energy measures based on thermal energy storage in buildings: A review. 2018 , 82, 3705-3749		62
408	Experimental investigation of the daily thermal performance of a mPCM honeycomb wallboard. <i>Energy and Buildings</i> , 2018 , 159, 419-425	7	24
407	Numerical simulation analysis on the thermal performance of a building walls incorporating Phase Change Material (PCM) for thermal management. 2018 , 434, 012186		1
406	Attenuation of Temperature Fluctuations on an External Surface of the Wall by a Phase Change Material-Activated Layer. 2018 , 8, 11		17
405	Towards the simulation of supercooling and convection in phase change materials using a thermal lattice Boltzmann method. 2018 , 18, 289		1
404	Preparation and characterisation of nano enhanced phase change material by adding carbon nano tubes to butyl stearate. 2018 , 13, 188-198		17
403	uhuMEB: Design, Construction, and Management Methodology of Minimum Energy Buildings in Subtropical Climates. <i>Energies</i> , 2018 , 11, 2745	3.1	11
402	Thermal Properties of Concrete Incorporated with Shape-stable Phase Change Material. 2018 , 203, 060	021	
401	Recent Investigations of Phase Change Materials Use in Solar Thermal Energy Storage System. 2018 , 2018, 1-13		7
400	Numerical Thermal Characterization and Performance Metrics of Building Envelopes Containing Phase Change Materials for Energy-Efficient Buildings. 2018 , 10, 2657		6
399	The Use of the Photovoltaic System in Combination With a Thermal Energy Storage for Heating and Thermoelectric Cooling. 2018 , 8, 1750		6
398	Nanoconfinement effects on thermal properties of nanoporous shape-stabilized composite PCMs: A review. 2018 , 53, 769-797		178
397	Biomimetic Facade Applications for a More Sustainable Future. 2018,		3
396	Experimental investigation of the charge/discharge process for an organic PCM macroencapsulated in an aluminium rectangular cavity. 2018 , 32, 01004		7
395	Effect of the insulation level on the thermal response of a PCM-modified envelope of a dwelling in Chile. <i>Applied Thermal Engineering</i> , 2018 , 141, 79-89	5.8	7
394	Investigation of different materials for macroencapsulation of salt hydrate phase change materials for building purposes. <i>Construction and Building Materials</i> , 2018 , 180, 512-518	6.7	21
393	Energy efficiency, demand side management and energy storage technologies â[A critical analysis of possible paths of integration in the built environment. 2018 , 95, 341-353		101
392	Energy Analysis of a Complementary Heating System Combining Solar Energy and Coal for a Rural Residential Building in Northwest China. 2018 , 2018, 2158205		

391	Thermal Feature of a Modified Solar Phase Change Material Storage Wall System. 2018, 2018, 1-8	3
390	Theoretical profile for heat capacity peaks of phase-change materials. 2018,	1
389	Formulation of a model predictive control algorithm to enhance the performance of a latent heat solar thermal system. 2018 , 173, 438-449	22
388	A novel method for determining the melting point, fusion latent heat, specific heat capacity and thermal conductivity of phase change materials. 2018 , 127, 457-468	10
387	Flexible phase change materials for thermal storage and temperature control. 2018, 353, 920-929	45
386	Experimental and numerical investigations of nano-additives enhanced paraffin in a shell-and-tube heat exchanger: A comparative study. <i>Applied Thermal Engineering</i> , 2018 , 143, 777-790	39
385	Application of a PCM-rich concrete overlay to control thermal induced curling stresses in concrete pavements. <i>Construction and Building Materials</i> , 2018 , 183, 502-512	19
384	Phase change humidity control material and its impact on building energy consumption. <i>Energy and Buildings</i> , 2018 , 174, 254-261	34
383	A practical ranking system for evaluation of industry viable phase change materials for use in concrete. <i>Construction and Building Materials</i> , 2018 , 177, 272-286	16
382	Novel Formulations of Phase Change Materials-Epoxy Composites for Thermal Energy Storage. Materials, 2018, 11,	16
381	Perception of User Criteria in the Context of Sustainability of Modern Methods of Construction Based on Wood. 2018 , 10, 116	16
380	Cost Implication of Implementing External Facade Systems for Commercial Buildings. 2018 , 10, 1917	6
379	Parametric analysis of using PCM walls for heating loads reduction. <i>Energy and Buildings</i> , 2018 , 172, 328-336	5 50
378	A review on macro-encapsulated phase change material for building envelope applications. 2018 , 144, 281-294	117
377	A review on applications of shape-stabilized phase change materials embedded in building enclosure in recent ten years. <i>Sustainable Cities and Society</i> , 2018 , 43, 251-264	1 59
376	Role of Heating Location on the Performance of a Natural Convection Driven Melting Process Inside a Square-Shaped Thermal Energy Storage System. 2018 , 10,	5
375	Advances in Liquid Metal Science and Technology in Chip Cooling and Thermal Management. 2018 , 187-300	26
374	Novel wall panels containing CaCl2[6 H2O-Mg(NO3)2[6 H2O/expanded graphite composites with different phase change temperatures for building energy savings. <i>Energy and Buildings</i> , 2018 , 176, 407- 4 77	30

373	Mechanical and Thermal Performance of Macro-Encapsulated Phase Change Materials for Pavement Application. <i>Materials</i> , 2018 , 11,	3.5	9
372	Behavior of a PCM at Varying Heating Rates: Experimental and Theoretical Study with an Aim at Temperature Moderation in Radionuclide Concrete Encasements. 2018 , 39, 1		2
371	2.14 Latent Heat Storage Systems. 2018 , 396-434		2
370	Potential applications of phase change materials to mitigate freeze-thaw deteriorations in concrete pavement. <i>Construction and Building Materials</i> , 2018 , 177, 202-209	6.7	30
369	Modelling and experimental validation of an algorithm for simulation of hysteresis effects in phase change materials for building components. <i>Energy and Buildings</i> , 2018 , 174, 54-67	7	28
368	Impregnation of PCMs in Building Materials. 2019 , 17-34		
367	Application and sensitivity analysis of the phase change material hysteresis method in EnergyPlus: A case study. <i>Applied Thermal Engineering</i> , 2019 , 162, 114222	5.8	25
366	Reversible Heat Exchange in the Nozzle with Waterâlte Phase Transition in Filtration of Air. 2019 , 28, 103-113		1
365	A molecular dynamics study of the effects of crystalline structure transition on the thermal conductivity of pentaerythritol as a solid-solid phase change material. 2019 , 141, 789-798		12
364	Properties of concretes enhanced with phase change materials for building applications. <i>Energy and Buildings</i> , 2019 , 199, 402-414	7	67
363	Thermal Insulation Properties of Organic and Inorganic Material in Clay Brick - A Review. 2019 , 268, 012	082	1
362	Validation and integration of a latent heat storage model into building envelopes of a high-order building model for Modelica library AixLib. <i>Energy and Buildings</i> , 2019 , 202, 109336	7	7
361	Thermal energy storage in district heating and cooling systems: A review. 2019 , 252, 113474		111
360	Preparation of attapulgite carriers with different pore structures and their effects on thermophysical properties of composite phase change materials. 2019 , 9, 105311		2
359	Fabrication, property characterization and thermal performance of composite phase change material plates based on tetradecanol-myristic acid binary eutectic mixture/expanded perlite and expanded vermiculite for building application. <i>Journal of Central South University</i> , 2019 , 26, 2578-2595	2.1	8
358	Comprehensive investigation of butyl stearate as a multifunctional smart concrete additive for energy-efficient buildings. <i>International Journal of Energy Research</i> , 2019 , 43, 7146	4.5	9
357	Synthesis of organic phase change materials (PCM) for energy storage applications: A review. 2019 , 20, 100399		72
356	Numerical Study of Application of PCM for a Passive Thermal Energy Storage System for Space Cooling in Residential Buildings. 2019 , 603, 042011		2

355	Compounds with Epoxy Resins and Phase Change Materials for Storage in Solar Applications. Materials, 2019 , 12,	3.5	2
354	Improvements of building envelope using passive cooling techniques to reduce the cooling load in hot-dry regions. 2019 , 48, 3831-3842		2
353	Preliminary numerical studies conducted for the numerical model of a real transpired solar collector with integrated phase changing materials. 2019 , 111, 03047		4
352	Overheating mitigation in buildings: a computational exploration of the potential of phase change materials. 2019 , 282, 02028		1
351	Multiscale Investigation of Interfacial Thermal Properties of n-Octadecane Enhanced with Multilayer Graphene. 2019 , 123, 23297-23305		3
350	Research Status and Development Trend of Solar Heating Technology. 2019 , 300, 042081		O
349	Reversible process of heat exchange in layer with phase transition. 2019,		
348	Thermal responses of concrete slabs containing microencapsulated low-transition temperature phase change materials exposed to realistic climate conditions. <i>Cement and Concrete Composites</i> , 2019 , 104, 103391	8.6	19
347	Reviewing Theoretical and Numerical Models for PCM-embedded Cementitious Composites. <i>Buildings</i> , 2019 , 9, 3	3.2	14
346	Preparation of porous carbonized woods impregnated with lauric acid as shape-stable composite phase change materials. <i>Applied Thermal Engineering</i> , 2019 , 150, 967-976	5.8	46
345	Characterization of novel shape-stabilized phase change material mortar: Portland cement containing Na2SO4[1]0H2O and fly ash for energy-efficient building. <i>International Journal of Energy Research</i> , 2019 , 43, 5812-5823	4.5	5
344	Simulation and performance analysis of an active PCM-heat exchanger intended for building operation optimization. <i>Energy and Buildings</i> , 2019 , 199, 47-61	7	23
343	A numerical study on optimizing the designs of applying PCMs to a disaster-relief prefabricated temporary-house (PTH) to improve its summer daytime indoor thermal environment. <i>Energy</i> , 2019 , 181, 239-249	7.9	12
342	Phase Change Materials for Energy Efficiency in Buildings and Their Use in Mortars. <i>Materials</i> , 2019 , 12,	3.5	53
341	Transparent Wood for Thermal Energy Storage and Reversible Optical Transmittance. 2019 , 11, 20465-2	20472	69
340	Integrating phase change materials in construction materials: Critical review. <i>Construction and Building Materials</i> , 2019 , 217, 36-49	6.7	86
339	Influence of NiTi alloy phase change heat-storage particles on thermophysical parameters, phase change heat-storage thermoregulation effect, and pavement performance of asphalt mixture. <i>Renewable Energy</i> , 2019 , 141, 431-443	8.1	16
338	A review of microencapsulated and composite phase change materials: Alteration of strength and thermal properties of cement-based materials. 2019 , 110, 467-484		79

337	Efficient Characterization of Macroscopic Composite Cement Mortars with Various Contents of Phase Change Material. 2019 , 9, 1104		9
336	Experimental Research on Using Form-stable PCM-Integrated Cementitious Composite for Reducing Overheating in Buildings. <i>Buildings</i> , 2019 , 9, 57	3.2	12
335	Experimental study of an innovative glazed solar air collector tested in real conditions. 2019 , 85, 04007		2
334	Applications of cascaded phase change materials in solar water collector storage tanks: A review. 2019 , 199, 24-49		78
333	Thermal conductivity and mechanical properties of a shape-stabilized paraffin/recycled cement paste phase change energy storage composite incorporated into inorganic cementitious materials. <i>Cement and Concrete Composites</i> , 2019 , 99, 165-174	8.6	14
332	Evaluation of latent heat storage in mortars containing microencapsulated paraffin waxes âla selection of optimal composition and binders. 2019 , 55, 2429-2435		5
331	Fitting of heat capacity peaks of PCMs with a theoretical formula. 2019 , 138, 2597-2603		
330	Efficiency optimisation of the thermal energy storage unit in the form of the ceiling panel for summer conditions. <i>International Journal of Energy Research</i> , 2019 , 43, 2151-2161	4.5	4
329	Experimental and numerical characterization of an impure phase change material using a thermal lattice Boltzmann method. <i>Applied Thermal Engineering</i> , 2019 , 154, 738-750	5.8	11
328	Thermal characteristics of aluminium hollowed bricks filled with phase change materials: Experimental and numerical analyses. <i>Applied Thermal Engineering</i> , 2019 , 155, 70-81	5.8	3
327	Thermal and Structural Characterization of Geopolymer-Coated Polyurethane Foam-Phase Change Material Capsules/Geopolymer Concrete Composites. <i>Materials</i> , 2019 , 12,	3.5	5
326	Performance of force circulation cross-matrix absorber solar heater integrated with latent heat energy storage material. 2019 , 469, 012107		1
325	Potential on Energy Performance Upgrade of National Stadiums: A Case Study for the Pancretan Stadium, Crete, Greece. 2019 , 9, 1544		7
324	Development of high performance PCM cement composites for passive solar buildings. <i>Energy and Buildings</i> , 2019 , 194, 33-45	7	27
323	Zeolitic imidazolate framework-67 for shape stabilization and enhanced thermal stability of paraffin-based phase change materials 2019 , 9, 9962-9967		15
322	Climate Change and Energy Decision Aid Systems for the Case of Egypt. 2019 , 79-107		1
321	Own-Synthetize Nanoparticles to Develop Nano-Enhanced Phase Change Materials (NEPCM) to Improve the Energy Efficiency in Buildings. 2019 , 24,		7
320	Preparation and characterization of sodium sulfate pentahydrate/sodium pyrophosphate composite phase change energy storage materials. 2019 , 280, 360-366		15

319	Phase Change Material Wallboard (PCMW) melting temperature optimisation for passive indoor temperature control. <i>Renewable Energy</i> , 2019 , 139, 507-514	8.1	31	
318	Evaluation of the potential use of form-stable phase change materials to improve the freeze-thaw resistance of concrete. <i>Construction and Building Materials</i> , 2019 , 203, 621-632	6.7	11	
317	Optimizing the insulation thickness of external wall by a novel 3E (energy, environmental, economic) method. <i>Construction and Building Materials</i> , 2019 , 205, 196-212	6.7	33	
316	An innovative PCM Storage System to enhance Building Energy Autonomy: experimental and numerical characterization. <i>Journal of Physics: Conference Series</i> , 2019 , 1343, 012170	0.3	1	
315	Compared Analysis of Calculation and Simulation on Heat Transfer Characteristics in PCM Heat Exchange Unit, Part I: Thermal Storage Process. <i>Journal of Physics: Conference Series</i> , 2019 , 1419, 01204	10.3		
314	Compared Analysis of Calculation and Simulation on Heat Transfer Characteristics in PCM Heat Exchange Unit, Part II: Thermal Release Process. <i>Journal of Physics: Conference Series</i> , 2019 , 1419, 01204	42 ^{.3}		
313	Energy conservation analysis of regenerative radiator for low-temperature heating. 2019,			
312	The effect of phase change material incorporated building wall on the CO2 mitigation: a case study of Izmir, Turkey. 2019 , 19, 54		2	
311	Modelling and experimenting thermal energy storage through the use of PCM in low thermal inertia office. 2019 ,		O	
310	Thermal Energy Storage with Phase Change Materials. 2019 ,		8	
309	Thermal energy storage characterization of cement-based systems containing microencapsulated-PCMs. <i>Construction and Building Materials</i> , 2019 , 199, 307-320	6.7	24	
308	Effect of freeze-thaw cycles on the mechanical behavior of geopolymer concrete and Portland cement concrete containing micro-encapsulated phase change materials. <i>Construction and Building Materials</i> , 2019 , 200, 94-103	6.7	61	
307	Thermal performances of glazed energy storage systems with various storage materials: An experimental study. <i>Sustainable Cities and Society</i> , 2019 , 45, 422-430	10.1	27	
306	Development of a novel sulphoalumitate cement-based composite combing fine steel fibers and phase change materials for thermal energy storage. <i>Energy and Buildings</i> , 2019 , 183, 75-85	7	21	
305	Effects of various carbon additives on the thermal storage performance of form-stable PCM integrated cementitious composites. <i>Applied Thermal Engineering</i> , 2019 , 148, 491-501	5.8	38	
304	Experiment study on thermal performance of building integrated with double layers shape-stabilized phase change material wallboard. <i>Energy</i> , 2019 , 167, 1164-1180	7.9	42	
303	Numerical and experimental studies of a Capillary-Tube embedded PCM component for improving indoor thermal environment. <i>Applied Thermal Engineering</i> , 2019 , 148, 466-477	5.8	19	
302	Mathematical model of heat transfer in PCM incorporated fabrics subjected to different thermal loads. <i>Applied Thermal Engineering</i> , 2019 , 150, 506-511	5.8	10	

301	Laboratory and in-situ non-destructive methods to evaluate the thermal transmittance and behavior of walls, windows, and construction elements with innovative materials: A review. <i>Energy and Buildings</i> , 2019 , 182, 88-110	7	50
300	Life cycle and life cycle cost implications of integrated phase change materials in office buildings. <i>International Journal of Energy Research</i> , 2019 , 43, 150-166	4.5	23
299	Thermal testing and numerical simulation of PCM wall integrated inside a test cell on a small scale and subjected to the thermal stresses. <i>Renewable Energy</i> , 2019 , 135, 597-607	8.1	13
298	2 years of monitoring results from passive solar energy storage in test cabins with phase change materials. 2020 , 200, 29-36		24
297	Energy and exergy analysis of an experimentally examined latent heat thermal energy storage system. <i>Renewable Energy</i> , 2020 , 147, 1845-1860	8.1	29
296	Behavior of cementitious mortars with direct incorporation of non-encapsulated phase change material after severe temperature exposure. <i>Construction and Building Materials</i> , 2020 , 230, 117011	6.7	16
295	Climatic cycling assessment of red clay/perlite and vermiculite composite PCM for improving thermal inertia in buildings. 2020 , 167, 106464		26
294	Solar Energy. 2020 ,		3
293	Potential of microencapsulated PCM for energy savings in buildings: A critical review. <i>Sustainable Cities and Society</i> , 2020 , 53, 101884	10.1	40
292	Review on performance assessment of phase change materials in buildings for thermal management through passive approach. 2020 , 22, 419-431		10
291	Technical textiles for military applications. 2020 , 111, 273-308		20
290	Numerical simulation and thermal performance of hybrid brick walls embedding a phase change material for passive building applications. 2020 , 140, 965-978		15
289	Experimental and numerical research on development of synthetic heat storage form incorporating phase change materials to protect concrete in cold weather. <i>Renewable Energy</i> , 2020 , 149, 1424-1433	8.1	8
288	Performance evaluation of phase change materials suitable for cities representing the whole tropical savanna climate region. <i>Renewable Energy</i> , 2020 , 148, 402-416	8.1	11
287	Latest developments on TES and CSP technologies âlEnergy and environmental issues, applications and research trends. <i>Applied Thermal Engineering</i> , 2020 , 167, 114806	5.8	75
286	Can movable PCM-filled TES units be used to improve the performance of PV panels? Overview and experimental case-study. <i>Energy and Buildings</i> , 2020 , 210, 109743	7	10
285	Microstructural design and thermal characterization of composite diatomite-vermiculite paraffin-based form-stable PCM for cementitious mortars. <i>Construction and Building Materials</i> , 2020 , 232, 117167	6.7	18
284	Investigation of a binary eutectic mixture of phase change material for building integrated photovoltaic (BIPV) system. 2020 , 207, 110360		71

(2020-2020)

283	Performance assessment of residential building envelopes enhanced with phase change materials. <i>Energy and Buildings</i> , 2020 , 208, 109664	7	22
282	Performance of cementitious composites with nano PCMs and cellulose nano fibers. <i>Construction and Building Materials</i> , 2020 , 236, 117483	6.7	18
281	Layer-by-layer assembled phase change composite with paraffin for heat spreader with enhanced cooling capacity. 2020 , 204, 112287		2
280	Numerical analysis of energy savings due to the use of PCM integrated in lightweight building walls. 2020 , 923, 012070		3
279	Experimental and Numerical Study on Energy Piles with Phase Change Materials. <i>Energies</i> , 2020 , 13, 469	9.1	8
278	Impact of a Composite Trombe Wall Incorporating Phase Change Materials on the Thermal Behavior of an Individual House with Low Energy Consumption. <i>Energies</i> , 2020 , 13, 4872	3.1	10
277	Form-stable and light-to-thermal conversion properties of comb-like polymer composite phase change materials for thermal management application. 2020 , 217, 110704		10
276	A novel approach toward reducing energy consumption and promoting electromagnetic interference shielding efficiency in the buildings using Brick/polyaniline nanocomposite. <i>Construction and Building Materials</i> , 2020 , 263, 120042	6.7	19
275	Bio-inspired cooling technologies and the applications in buildings. <i>Energy and Buildings</i> , 2020 , 225, 110	3 / 13	15
274	Computer Simulation of Passive Cooling of Wooden House Covered by Phase Change Material. <i>Energies</i> , 2020 , 13, 6065	3.1	2
273	Impact of Wall Constructions on Energy Performance of Switchable Insulation Systems. <i>Energies</i> , 2020 , 13, 6068	3.1	4
272	Development of structural layers PVC incorporating phase change materials for thermal energy storage. <i>Applied Thermal Engineering</i> , 2020 , 179, 115707	5.8	7
271	Preparation and characterization of isopropyl palmitate/expanded perlite and isopropyl palmitate/nanoclay composites as form-stable thermal energy storage materials for buildings. <i>Journal of Energy Storage</i> , 2020 , 32, 101679	7.8	11
270	FEM Applied to Building Physics: Modeling Solar Radiation and Heat Transfer of PCM Enhanced Test Cells. <i>Energies</i> , 2020 , 13, 2200	3.1	2
269	Effect of phase-change materials on the hydration and mineralogy of cement mortar. 2020, 1-11		5
268	Parametric analysis and design optimisation of PCM thermal energy storage system for space cooling of buildings. <i>Energy and Buildings</i> , 2020 , 224, 110288	7	23
267	Experimental Comparison of Passive Heating/Cooling Space in Lightweight Buildings with Potential Application in Mining Camps. 2020 , 503, 012083		0
266	A comparison between passive and active PCM systems applied to buildings. <i>Renewable Energy</i> , 2020 , 162, 112-123	8.1	24

265	Crystallization and thermal performance of poly(acrylonitrile-co-alkyl acrylate) comb-like polymeric phase change materials with various side-chain lengths. 2020 , 22, 5799-5808		3
264	. 2020,		
263	GPU-accelerated lattice Boltzmann simulation of heat transfer characteristics of porous brick roof filled with phase change materials. 2020 , 119, 104911		2
262	Fractal modeling of polycrystalline PCMs. 2020,		O
261	Solar Thermal Energy Storage Using Paraffins as Phase Change Materials for Air Conditioning in the Built Environment. 2020 ,		1
260	Experimental Analysis of the Function of a Window with a Phase Change Heat Accumulator. <i>Materials</i> , 2020 , 13,	3.5	4
259	Phase Change Materials and Their Benefits in ETICS. 2020 , 10, 8549		1
258	The impact of thermophysical properties and hysteresis effects on the energy performance simulation of PCM wallboards: Experimental studies, modelling, and validation. 2020 , 126, 109807		14
257	Influence of Thermal Insulationâʿa and Phase Change Materialâʿa Insertion within a Partition Wall on the Energy Consumption of a Conditioned Room under Adjacent Local Periodical Temperature Effect. 2020 , 307, 01024		0
256	Numerical Study to Optimize the Melting Process of Phase Change Material Coupled with Extra Fluid. 2020 ,		2
255	Lightweight and prefabricated construction as a path to energy efficient buildings: thermal design and execution challenges. 2020 , 19, 1		3
254	Systematic review of encapsulation and shape-stabilization of phase change materials. <i>Journal of Energy Storage</i> , 2020 , 30, 101495	7.8	47
253	High power density thermal energy storage using additively manufactured heat exchangers and phase change material. 2020 , 153, 119591		26
252	An experimental investigation of the thermal effect due to discharging of phase change material in a room fitted with a windcatcher. <i>Sustainable Cities and Society</i> , 2020 , 61, 102277	10.1	11
251	Performance Analysis of PCM Ceiling Coupling with Earth-Air Heat Exchanger for Building Cooling. <i>Materials</i> , 2020 , 13,	3.5	10
250	Thermal Performance of Mortars Based on Different Binders and Containing a Novel Sustainable Phase Change Material (PCM). <i>Materials</i> , 2020 , 13,	3.5	7
249	Investigation of phase state and heat storage form of the phase change material (PCM) layer integrated into the exterior walls of the residential-apartment during heating season. <i>Energy</i> , 2020 , 207, 118176	7.9	20
248	Fatty acid/metal ion composite as thermal energy storage materials. 2020 , 2, 1		13

(2020-2020)

247	Application of phase change material foam composites in the built environment: A critical review. 2020 , 131, 110008	29
246	Thermal properties of shape-stabilized phase change materials based on Low Density Polyethylene, Hexadecane and SEBS for thermal energy storage. <i>Applied Thermal Engineering</i> , 2020 , 171, 115072	25
245	Micro-/macro-level optimization of phase change material panel in building envelope. <i>Energy</i> , 2020 , 195, 116932	12
244	Phase Change Materials (PCMs) and Their Optimum Position in Building Walls. 2020 , 12, 1294	23
243	A solar dish Stirling engine combined humidification-dehumidification desalination cycle for cleaner production of cool, pure water, and power in hot and humid regions. 2020 , 37, 100642	14
242	Recent Advances in Mechanical Engineering. 2020,	2
241	Thermo-optically responsive phase change materials for passive temperature regulation. 2020 , 197, 222-228	9
240	Preparation and Characterization of Neopentyl Glycol/Epoxy Resin Shape-Stabilized Phase Change Material for Thermal Energy Storage. 2020 , 735, 012014	2
239	Energy efficient pumpable cement concrete with nanomaterials embedded PCM for passive cooling application in buildings. 2020 , 28, 1054-1063	3
238	Apparent heat capacity method to investigate heat transfer in a composite phase change material. Journal of Energy Storage, 2020 , 28, 101239 7.8	19
237	Thermophysical properties and applications of nano-enhanced PCMs: An update review. 2020 , 214, 112876	106
236	Integrated adsorption-based multigeneration systems: A critical review and future trends. 2020 , 116, 129-145	14
235	An experimental investigation of the charging process of thermal energy storage system filled with PCM and metal wire mesh. <i>Applied Thermal Engineering</i> , 2020 , 174, 115266	25
234	Thermal performance and corrosion resistance of structural-functional concrete made with inorganic PCM. <i>Construction and Building Materials</i> , 2020 , 249, 118768	18
233	Gulf Conference on Sustainable Built Environment. 2020 ,	1
232	Life cycle assessment of integrated thermal energy storage systems in buildings: A case study in Canada. <i>Energy and Buildings</i> , 2020 , 217, 109940	17
231	New view point on the effect of thermal conductivity on phase change materials based on novel concepts of relative depth of activation and time rate of activation: The case study on a top floor room. 2020 , 266, 114886	6
230	Cost/Performance Analysis of Commercial-Grade Organic Phase-Change Materials for Low-Temperature Heat Storage. <i>Energies</i> , 2020 , 13, 5	3

229	Passive room conditioning using phase change materialsâDemonstration of a long-term real size experiment. <i>International Journal of Energy Research</i> , 2020 , 44, 7047-7056	4.5	4
228	Technological options and strategies towards zero energy buildings contributing to climate change mitigation: A systematic review. <i>Energy and Buildings</i> , 2020 , 219, 110009	7	62
227	Development of thermal energy storage lightweight concrete using paraffin-oil palm kernel shell-activated carbon composite. 2020 , 261, 121227		15
226	Polyethylene Glycol-600/expanded clay aggregate with Alccofine1203 in concrete. 2021 , 43, 1081-1088	3	3
225	Review on optimization of phase change parameters in phase change material building envelopes. Journal of Building Engineering, 2021 , 35, 101979	5.2	11
224	Experimental and numerical analysis of the thermal performance of polyurethane foams panels incorporating phase change material. <i>Energy</i> , 2021 , 216, 119213	7.9	7
223	Validation of different numerical models with benchmark experiments for modelling microencapsulated-PCM-based applications for buildings. 2021 , 159, 106565		17
222	Ranking PCMs for building fallde applications using multi-criteria decision-making tools combined with energy simulations. <i>Energy</i> , 2021 , 215, 119102	7.9	22
221	The performances of expanded graphite on the phase change materials composites for thermal energy storage. 2021 , 212, 123128		24
220	Utilising Latent Thermal Energy Storage in Building Envelopes to Minimise Thermal Loads and Enhance Comfort. <i>Journal of Energy Storage</i> , 2021 , 33, 102119	7.8	5
219	Thermal energy storage cement mortar with direct incorporation of organic and inorganic phase change materials. 2021 , 6, 1		3
218	Efficient and Suitable Construction. 2021 ,		
217	Experimental investigation and thermodynamic evaluation of the CsNO3-LiNO3-NaNO3 ternary system. 2021 , 864, 158131		
216	Properties of expanded graphite polystyrene damaged by the impact of solar radiation. <i>Journal of Building Engineering</i> , 2021 , 34, 101920	5.2	5
215	Emerging applications of phase change materials: A concise review of recent advances. 2021 , 50, 1443-	1493	8
214	The effect of PCM with different thermos-physical parameters on indoor temperature of Xiâ�an Solar Greenhouse. 631, 012014		2
213	Enhancement of Thermo-Physical Properties of Expanded Vermiculite-Based Organic Composite Phase Change Materials for Improving the Thermal Energy Storage Efficiency. 2021 , 6, 3891-3899		6
212	PCM incorporated bricks: A passive alternative for thermal regulation and energy conservation in buildings for Indian conditions. 2021 , 303-328		1

Application of Phase Change Materials in Construction Materials for Thermal Energy Storage Systems in Buildings. **2021**, 1-20

210	A review of the application and effectiveness of heat storage system using phase change materials in the built environment. 2021 ,	2
209	Review on phase change materials and application in building energy saving. 2021 , 236, 05006	O
208	Thermal energy storage systems for cooling in residential buildings. 2021 , 595-623	
207	On the Energy Performance of Micro-Encapsulated Phase Change Material Enhanced Spackling with Night Ventilation. 2021 , 11, 1472	О
206	Improving thermal and mechanical properties of light weight aggregate concrete using inorganic phase changing material, expanded clay aggregate, alccofine1203 and manufacturing sand. 2021 , 6, 1	2
205	Isopropyl palmitate integrated with plasterboard for low temperature latent heat thermal energy storage. <i>International Journal of Energy Research</i> , 2021 , 45, 10500-10512	4
204	Thermal Energy Storage by the Encapsulation of Phase Change Materials in Building Elements-A Review. <i>Materials</i> , 2021 , 14,	6
203	Comparison of LBM and FVM for Simulation of Solid-Liquid Phase Change Problem with Natural Convection. 2021 , 701, 012050	О
202	Diffusion of Shape Stabilized PEG-SiO as a Driver for Producing Thermoregulating Facing Bricks. Materials, 2021, 14,	1
201	Performance evaluation of phase change materials for thermal comfort in a hot climate region. Applied Thermal Engineering, 2021, 186, 116509 5.8	4
200	Conversion of End-of-Life Household Materials into Building Insulating Low-Cost Solutions for the Development of Vulnerable Contexts: Review and Outlook towards a Circular and Sustainable Economy. 2021 , 13, 4397	2
199	Ultra-long carbon nanotube-paraffin composites of record thermal conductivity and high phase change enthalpy among paraffin-based heat storage materials. <i>Journal of Energy Storage</i> , 2021 , 36, 102396	15
198	Preparation and Characterization of Capric-Lauric Acid/Silicon Dioxide Nanocapsules as Phase Change Energy Storage Materials. 2021 , 13, 632-637	1
197	Hygrothermal performance of cool roofs with reflective coating material subjected to hot, humid and dusty climate. 174425912110014	3
196	Radiant heating floors with PCM bands for thermal energy storage: A numerical analysis. 2021 , 162, 106803	19
195	Experimental analysis of Thermal Efficiency of functionalized Graphene (COOH) reinforced PCM for thermal energy storage system. 2021 , 1116, 012008	1
194	Thermal and Mechanical Characterization of Microencapsulated Phase Change Material in Cementitious Composites. 1	1

193 Phase Change Materials Technologies Review and Future Application in Lebanon: Part 1. 886, 228-240

192	Phase Change Material Integration in Building Envelopes in Different Building Types and Climates: Modeling the Benefits of Active and Passive Strategies. 2021 , 11, 4680		3
191	A review of solar-driven short-term low temperature heat storage systems. 2021 , 141, 110824		8
190	Phase change materials effect on the thermal radius and energy storage capacity of energy piles: Experimental and numerical study. 2021 , 10, 100094		2
189	Recent developments of thermal energy storage applications in the built environment: A bibliometric analysis and systematic review. <i>Applied Thermal Engineering</i> , 2021 , 189, 116666	5.8	28
188	Phase Change Materials Technologies Review and Future Application in Lebanon: Part II. 886, 256-270		
187	Transparent wood with phase change heat storage as novel green energy storage composites for building energy conservation. 2021 , 296, 126598		15
186	Mechanical and thermal characterizations of various thermal energy storage concretes including low-cost bio-sourced PCM. <i>Energy and Buildings</i> , 2021 , 241, 110878	7	13
185	A novel composite for thermal energy storage from alumina hollow sphere/paraffin and alkali-activated slag. 2021 , 47, 15947-15957		9
184	Random copolymer of poly(polyethylene glycol methyl ether)methacrylate as tunable transition temperature solid-solid phase change material for thermal energy storage. 2021 , 225, 111030		6
183	Judicious method of integrating phase change materials into a building envelope under Saharan climate. <i>International Journal of Energy Research</i> , 2021 , 45, 18048-18065	4.5	2
182	Measurement of full-scale phase change material products considering hysteresis. <i>Applied Thermal Engineering</i> , 2021 , 192, 116895	5.8	3
181	Enabling high-strength cement-based materials for thermal energy storage via fly-ash cenosphere encapsulated phase change materials. <i>Cement and Concrete Composites</i> , 2021 , 120, 104033	8.6	8
180	Storing Energy from External Power Supplies Using Phase Change Materials and Various Pipe Configurations. 2021 , 9, 1160		1
179	Thermally conductive microcapsule/high-density polyethylene composite for energy saving and storage. 2021 , 35, 2150429		1
178	Innovative Gypsumâ P article Composite Used as Building Structural Panels. 2021 , 33, 04021190		2
177	Evaluation of phase change plaster/paste composites for building envelopes. <i>Energy and Buildings</i> , 2021 , 253, 111372	7	3
176	Multivariant optimization and sensitivity analysis of an experimental vertical earth-to-air heat exchanger system integrating phase change material with Taguchi method. <i>Renewable Energy</i> , 2021 , 173, 401-414	8.1	9

175 Thermal Energy Storage Systems for Concentrating Solar Power Plants. **2021**, 1-30

174	Preparation and characterizations of hydroxyapatite microcapsule phase change materials for potential building materials. <i>Construction and Building Materials</i> , 2021 , 297, 123576	6.7	3
173	A novel porous metal hydride tank for hydrogen energy storage and consumption assisted by PCM jackets and spiral tubes. 2021 , 311, 127674		5
172	Advances in standalone and hybrid earth-air heat exchanger (EAHE) systems for buildings: A review. <i>Energy and Buildings</i> , 2021 , 111532	7	6
171	Evolutionary Design of Heat Exchangers in Thermal Energy Storage.		
170	Experimental investigation of a multi-kWh cold storage device based on phase change materials. Journal of Energy Storage, 2021 , 41, 102883	7.8	2
169	Structure effect of the envelope coupled with heat reflective coating and phase change material in lowering indoor temperature. <i>Journal of Energy Storage</i> , 2021 , 41, 102963	7.8	4
168	Experimental and numerical investigation of PCM capsules as insulation materials inserted into a hollow brick wall. <i>Energy and Buildings</i> , 2021 , 246, 111127	7	8
167	Impact of phase change materials on lightened earth hygroscopic, thermal and mechanical properties. <i>Journal of Building Engineering</i> , 2021 , 41, 102417	5.2	3
166	Mapping the scientific research of the life cycle assessment in the construction industry: A scientometric analysis. 2021 , 204, 108086		4
165	Assessment of impregnating phase change materials into lightweight aggregates for development of thermal energy storage aggregate composites. <i>Construction and Building Materials</i> , 2021 , 305, 12468	3 ^{6.7}	O
164	Phase change material based advance solar thermal energy storage systems for building heating and cooling applications: A prospective research approach. 2021 , 47, 101318		8
163	Mechanical and microstructure development of portland cement modified with micro-encapsulated phase change materials. <i>Construction and Building Materials</i> , 2021 , 304, 124652	6.7	2
162	Fabrication and properties of novel tubular carbon fiber-ionic liquids/stearic acid composite PCMs. <i>Renewable Energy</i> , 2021 , 177, 411-421	8.1	5
161	PCM embedded radiant chilled ceiling: A state-of-the-art review. 2021 , 151, 111601		6
160	Numerical study of the feasibility of coupling vacuum isolation panels with phase change material for enhanced energy-efficient buildings. <i>Energy and Buildings</i> , 2021 , 251, 111369	7	О
159	Two-dimensional materials and their derivatives for high performance phase change materials: emerging trends and challenges. 2021 , 42, 845-870		9
158	Phase change microcapsules with high encapsulation efficiency using Janus silica particles as stabilizers and their application in cement. <i>Construction and Building Materials</i> , 2021 , 307, 124971	6.7	О

157	Performance of energy storage system containing cement mortar and PCM/epoxy/SiC composite fine aggregate. <i>Applied Thermal Engineering</i> , 2021 , 198, 117445	5.8	5
156	Inorganic phase change materials in thermal energy storage: A review on perspectives and technological advances in building applications. <i>Energy and Buildings</i> , 2021 , 252, 111443	7	21
155	Nonwoven Textile Waste Added with PCM for Building Applications. 2021, 11, 1262		1
154	Regularities In The Development Of The Theory Of Energy Efficiency Management. 2021 , 5, 117-132		5
153	3D Numerical Modeling for Assessing the Energy Performance of Single-Zone Buildings with and Without Phase Change Materials. 2020 , 419-438		2
152	Solar Energy. 2014 , 159-214		2
151	Review on PCM Application for Cooling Load Reduction in Indian Buildings. 2020 , 247-275		2
150	Yearly analysis of peak temperature, thermal amplitude, time lag and decrement factor of a building envelope in tropical climate. <i>Journal of Building Engineering</i> , 2020 , 31, 101459	5.2	15
149	Development and thermal performance of nanoencapsulated PCM/ plaster wallboard for thermal energy storage in buildings. <i>Journal of Building Engineering</i> , 2020 , 32, 101727	5.2	19
148	Shape-Stabilized Phase Change Material by a Synthetic/Natural Hybrid Composite Foam with Cell-Wall Pores. 2021 , 4, 416-424		4
147	Design of composite materials/devices for thermal storage âlʿA critical review. 2018 , 2, 1-28		2
146	Performance Evaluation of an Active PCM Thermal Energy Storage System for Space Cooling in Residential Buildings. 2019 , 23, 74-89		12
145	Experimental Investigation and Mathematical Modelling of Thermal Performance Characteristics of Textiles Incorporating Phase Change Materials (PCMs).		1
144	Time-Temperature Charge Function of a High Dynamic Thermal Heat Storage with Phase Change Material. 2015 , 07, 41-54		5
143	Numerical Study of the Thermal Behavior of a Composite Phase Change Material (PCM) Room. 2018 , 8, 2663-2667		8
142	Argamassas com incorporati direta de Materiais de Mudanti de Fase: Avaliati do comportamento a baixas e elevadas temperaturas. 2021 , 26,		
141	Fabrication and Thermal properties of graphene nanoplatelet-enhanced phase change materials based on paraffin encapsulated by melamineâformaldehyde. 1		2
140	Study on the Effect of Hole Size of Trombe Wall in the Presence of Phase Change Material for Different Times of a Day in Winter and Summer. 2021 , 9, 1886		1

139	Review on the Integration of Phase Change Materials in Building Envelopes for Passive Latent Heat Storage. 2021 , 11, 9305		5
138	Experimental investigation of nano/microencapsulated phase change material emulsion based building wall paint for solar thermal energy storage. 2021 , 28, 1		2
137	A novel energy-effective and carbon-emission reducing mortars with bottom ash and phase change material: Physico-mechanical and thermal energy storage characteristics. <i>Journal of Energy Storage</i> , 2021 , 44, 103325	7.8	2
136	Impact of phase change material on the amount of emission in the double-glazed window frame for different window angles. <i>Journal of Energy Storage</i> , 2021 , 44, 103320	7.8	4
135	Improving latent heat storage capacity of polyethylene glycol/cement composite prepared via solution blending method. 2021 , 230, 355-364		O
134	Experimental investigation on heat transfer and air flow behavior of latent heat storage unit in a facade integrated ventilation system. <i>Journal of Energy Storage</i> , 2021 , 44, 103367	7.8	4
133	Knowledge model and multiple criteria decision support system for passive houses. 2013,		
132	Modern Applications of Nanotechnology in Textiles. 2015 , 41-84		1
131	Case of Energy System in Northwest China. 2017 , 1-34		
130	Experimental Study of Heat Storage Unit Made of PCM-gypsum Composite Integrated with the Ventilation System of the Building.		
129	Case of Energy System in Northwest China. 2018 , 1811-1844		
128	PROPOSAL OF AN EXPERIMENTAL APPARATUS AND AN EVALUATION METHOD FOR PCM. 2018 , 24, 247-252		
127	Characterization of mycorrhizal fungi of the genus Tulasnella (Tulasnellaceae, Basidiomycota) in the genus of orchids Bletia from Barranca del Cupatitzio Natural Reserve, Mexico. 2018 , 75, 075		
126	EXPERIMENTAL MEASUREMENT AND CALCULATION OF PHASE CHANGE MATERIALS IN A HEAT INSULATION BOX. 2019 , 25, 735-740		
125	Role of Energy Storage in 100% Renewable Urban Areas. 2020 , 411-437		
124	Introduction. 2020 , 1-15		
123	Indoor Thermal Environment Challenges of Light Steel Framing in the Southern European Context. <i>Energies</i> , 2021 , 14, 7025	3.1	2
122	Numerical modeling and optimization of annual thermal characteristics of an office room with PCM activeapassive coupling system. <i>Energy and Buildings</i> , 2021 , 254, 111629	7	5

121	Phase change materials for waste heat recovery in internal combustion engines: A review. <i>Journal of Energy Storage</i> , 2021 , 44, 103421	.8	5
120	The Role of Thermal Storage in Distributed Air-Conditioning Plants: Energy and Environmental Analysis. 2020 , 7, 88-104		
119	Modelling Solar Radiation and Heat Transfer of Phase Change Materials Enhanced Test Cells. 2021 , 135-15	54	
118	Role of surface effects in the determination of phase change temperature of PCMs. 2021,		
117	Experimental and numerical analysis of the energy efficiency of PCM concrete wallboards under different thermal scenarios. <i>Journal of Building Engineering</i> , 2022 , 45, 103547	.2	1
116	A review of metallic materials for latent heat thermal energy storage: Thermophysical properties, applications, and challenges. 2022 , 154, 111812		8
115	PCMs in Building Structure. 2020 , 63-87		1
114	Experimental Study on PCM-Based External Wall Cladding for Energy Efficient Buildings. 2020 , 513-526		
113	An Experimental Study of a Thermally Activated Ceiling Containing Phase Change Material for Different Cooling Load Profiles. <i>Energies</i> , 2021 , 14, 7363	.1	1
112	Faz De îl iren Malzemelerin Bina Kabulinda Kullan m.		
111	A review of novel methods and current developments of phase change materials in the building walls for cooling applications. 2022 , 49, 101709		O
110	Thermal energy autonomy study for a reference house equipped with PV panels, a heat pump and PCM storage elements. <i>Journal of Physics: Conference Series</i> , 2021 , 2042, 012147	.3	
109	Optimization of the thermal insulation characteristics of phase change wall in cold region. 2021,		
108	A Rapid Method for Low Temperature Microencapsulation of Phase Change Materials (PCMs) Using a Coiled Tube Ultraviolet Reactor. <i>Energies</i> , 2021 , 14, 7867	.1	1
107	Aufbau und Einsatz von LatentwEmespeichern. 2021 , 425-485		
106	Phase-Change Materials in Concrete: Opportunities and Challenges for Sustainable Construction and Building Materials <i>Materials</i> , 2022 , 15,	.5	8
105	Effective PCM, insulation, natural and/or night ventilation techniques to enhance the thermal performance of buildings located in various climates â (A review. <i>Energy and Buildings</i> , 2022 , 258, 111840)		9
104	Experimental investigation of an enhanced transpired air solar collector with embodied phase changing materials. 2022 , 336, 130398		2

103	Thermophysical properties of Nano-enhanced phase change materials for domestic heating applications. <i>Journal of Energy Storage</i> , 2022 , 46, 103794	7.8	3
102	Increasing the rating performance of paraffin up to 5000 cycles for active latent heat storage by adding high-density polyethylene to form shape-stabilized phase change material. <i>Journal of Energy Storage</i> , 2022 , 46, 103762	7.8	5
101	Effect of using a solar hot air collector installed on the inclined roof of a building for cooling and heating system in the presence of polymeric PCM. 2022 , 50, 101852		4
100	Application of phase change material in improving trombe wall efficiency: An up-to-date and comprehensive overview. <i>Energy and Buildings</i> , 2022 , 258, 111824	7	7
99	Characteristics and potential applications of nano-enhanced phase change materials: A critical review on recent developments. 2022 , 50, 101799		1
98	Effect of annual solar radiation on simple falde, double-skin facade and double-skin facade filled with phase change materials for saving energy. 2022 , 51, 101928		5
97	Improving the Phase Transition Characteristic and Latent Heat Storage Efficiency by Forming Polymer-Based Shape-Stabilized PCM for Active Latent Storage System. SSRN Electronic Journal,	1	
96	Thermische Speicher mit Phasenwechselmaterial. 2021 , 245-311		
95	Havaland r̃ mal-Duvar Konstrk̃siyonlarñda Faz Delbiren Malzeme Kullanm̃nñn Konut Binalar ññ Enerji Yk̃lerine Etkisinin licelenmesi. <i>Ddce biversitesi Bilim Ve Teknoloji Dergisi</i> ,	0.1	
94	The Evolution of Knowledge and Trends within the Building Energy Efficiency Field of Knowledge. <i>Energies</i> , 2022 , 15, 691	3.1	1
93	Heating a residential building using the heat generated in the lithium ion battery pack by the electrochemical process. <i>Journal of Energy Storage</i> , 2022 , 45, 103553	7.8	9
92	Numerical investigation of using PCM with and without nano addition as insulation material in a hollow brick wall. <i>AIP Conference Proceedings</i> , 2022 ,	Ο	
91	Towards sustainable re-construction systems: from waste ruins to eco-efficient buildings. Renewable Energy and Environmental Sustainability, 2022 , 7, 12	2.5	0
90	Energy Performance of Integrated Wall and Window Switchable Insulated Systems for Residential Buildings. <i>Energies</i> , 2022 , 15, 1056	3.1	2
89	Stable salt hydrate-based thermal energy storage materials. <i>Composites Part B: Engineering</i> , 2022 , 233, 109621	10	1
88	Thermal performance of the building envelope integrated with phase change material for thermal energy storage: an updated review <i>Sustainable Cities and Society</i> , 2022 , 79, 103690	10.1	12
87	Utilization of a solar system to charge lithium-ion batteries and using the heat generated in an in-line lithium-ion battery to heat a guard room. <i>Journal of Energy Storage</i> , 2022 , 49, 104134	7.8	8
86	Simulation of a Trombe wall with a number of semicircular fins placed on the absorber plate for heating a room in the presence of nano-PCM. <i>Journal of Building Engineering</i> , 2022 , 50, 104173	5.2	

85	Phase Change Material Evolution in Thermal Energy Storage Systems for the Building Sector, with a Focus on Ground-Coupled Heat Pumps <i>Polymers</i> , 2022 , 14,	4.5	О
84	Effects of rib on cooling performance of photovoltaic modules (PV/PCM-Rib). <i>Journal of Central South University</i> , 2021 , 28, 3449-3465	2.1	1
83	Study on Heat Storage Performance of a Novel Vertical Shell and Multi-Finned Tube Tank. <i>SSRN Electronic Journal</i> ,	1	
82	Salt leaching as a green method for the production of polyethylene foams for thermal energy storage applications. <i>Polymer Engineering and Science</i> ,	2.3	O
81	Climate-Adaptive FaBdes with an Air Chamber. <i>Buildings</i> , 2022 , 12, 366	3.2	2
80	Physical Properties of Eco-Sustainable Form-Stable Phase Change Materials Included in Mortars Suitable for Buildings Located in Different Continental Regions <i>Materials</i> , 2022 , 15,	3.5	1
79	Improvement of cob thermal inertia by latent heat storage and its implication on energy consumption. <i>Construction and Building Materials</i> , 2022 , 329, 127163	6.7	2
78	Method for estimating change over time of the amount of heat stored in a semi-infinite phase-change material with a broad phase-change-temperature range. <i>Thermal Science and Engineering Progress</i> , 2022 , 30, 101275	3.6	
77	Incorporating PCM-enabled thermal energy storage into 3D printable cementitious composites. <i>Cement and Concrete Composites</i> , 2022 , 129, 104492	8.6	0
76	Influence of the number of holes and two types of PCM in brick on the heat flux passing through the wall of a building on a sunny day in Medina, Saudi Arabia. <i>Journal of Building Engineering</i> , 2022 , 50, 104215	5.2	O
75	Thermal and mechanical properties of cement based-composite phase change material of butyl stearate/isopropyl palmitate/expanded graphite for low temperature solar thermal applications. <i>Journal of Energy Storage</i> , 2022 , 50, 104547	7.8	1
74	Enhancing performance of building elements with phase change materials for cooling with air-based systems. <i>Journal of Energy Storage</i> , 2022 , 51, 104461	7.8	O
73	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. <i>Energy</i> , 2022 , 250, 123768	7.9	2
72	Lithium-ion batteries investigation regarding different fins distribution associated electrochemical effects and various voltage types. <i>Journal of Energy Storage</i> , 2022 , 51, 104383	7.8	O
71	A numerical study on applying the movable PCM design to disaster-relief prefabricated temporary houses used in different climate regions to improve indoor thermal environments in summer. <i>International Journal of Energy Research</i> ,	4.5	О
70	Study on heat storage performance of a novel vertical shell and multi-finned tube tank. <i>Renewable Energy</i> , 2022 ,	8.1	O
69	Multi-Skin Adaptive Ventilated Facade: A Review. <i>Energies</i> , 2022 , 15, 3447	3.1	1
68	Energy saving in buildings by using the exhaust air and phase change material for cooling of photovoltaic panels. <i>Journal of Building Engineering</i> , 2022 , 53, 104520	5.2	

67	Phase change materials: Agents towards energy performance improvement in inclined, vertical, and horizontal walls of residential buildings. <i>Journal of Building Engineering</i> , 2022 , 104656	5.2	O
66	Numerical study of the placement and thickness of blocks equipped with phase change materials in a Trombe wall in a room- thermal performance prediction using ANN. <i>Engineering Analysis With Boundary Elements</i> , 2022 , 141, 91-116	2.6	2
65	Construction of Three-Dimensional Network Structure in Polyethylene-EPDM-Based Phase Change Materials by Carbon Nanotube with Enhanced Thermal Conductivity, Mechanical Property and Photo-Thermal Conversion Performance. <i>Polymers</i> , 2022 , 14, 2285	4.5	1
64	Investigation of PCM thermal effectiveness towards an optimised design of cooling building envelope. <i>Journal of Physics: Conference Series</i> , 2022 , 2222, 012005	0.3	
63	Design and Optimization of Energy Consumption for a low-rise Building with Seasonal Variations under Composite Climate of India. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 1-39	2.3	3
62	Phase change material based thermal energy storage applications for air conditioning: Review. <i>Applied Thermal Engineering</i> , 2022 , 214, 118832	5.8	1
61	Thermal Properties of Peg-Based Form-Stable Phase Change Materials (Pcms) Incorporated in Mortars for Energy Efficiency of Buildings. <i>SSRN Electronic Journal</i> ,	1	
60	Heat Transfer Enhancement of Modular Thermal Energy Storage Unit for Reversible Heat Pump Cooperation. SSRN Electronic Journal,	1	
59	Experimental analysis of latent heat thermal energy storage system using encapsulated multiple phase-change materials. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 095440892211109	1.5	О
58	Melting enhancement of PCM in a finned tube latent heat thermal energy storage. <i>Scientific Reports</i> , 2022 , 12,	4.9	1
57	Recent advances and impact of phase change materials on solar energy: A comprehensive review. Journal of Energy Storage, 2022 , 53, 105200	7.8	3
56	Cascaded latent heat thermal energy storage device with longitudinal fins: Numerical investigation of melting process and thermal performance analysis. <i>Journal of Energy Storage</i> , 2022 , 53, 105199	7.8	О
55	Phase change materials in building integrated space heating and domestic hot water applications: A review. <i>Journal of Energy Storage</i> , 2022 , 54, 105227	7.8	1
54	Thermal energy storage enhancement of a forced circulation solar water heaterâl vertical tank unit using phase change material. <i>Applied Thermal Engineering</i> , 2022 , 215, 118972	5.8	
53	Economical Design Optimization of a Phase Change Material Active System Equipped with a Solar Collector. <i>Applied Thermal Engineering</i> , 2022 , 119002	5.8	О
52	Aplicaciones de la modelacifi energtica de edificaciones: revisifi y casos de estudio en Mxico Autores/as. 2022 , 55-80		
51	Heat Transfer Enhancement of Phase Change Material in Triple-Tube Latent Heat Thermal Energy Storage Units: Operating Modes and Fin Configurations. 2022 , 15, 5653		
50	Energy, environmental, and economic analysis of different buildings envelope integrated with phase change materials in different climates. 2022 , 243, 91-102		1

49	Energy, economic and environmental benefits of integrating passive design strategies into buildings: A review. 2022 , 167, 112828	5
48	Efficient utilization of PCM in building envelope in a hot environment condition. 2022 , 16, 100205	3
47	Performance of latent heat storage (LHS) systems using pure paraffin wax as working substance. 2022 , 39, 102399	О
46	Introduction and Literature Review of Building Components with Passive Thermal Energy Storage Systems. 2022 , 1-18	O
45	Microencapsulated Phase Change Materials and their Applications for Passive Cooling in Buildings. 2022 , 1-21	О
44	Argamassas de cimento com incorpora ö direta de Materiais de Mudan ä de Fase. 2022 , 40-53	O
43	A comprehensive review of latent heat energy storage for various applications: an alternate to store solar thermal energy. 2022 , 44,	1
42	Transparent wood-based functional materials via a top-down approach. 2022 , 101025	2
41	Model predictive control in phase-change-material-wallboard-enhanced building energy management considering electricity price dynamics. 2022 , 326, 120023	О
40	Synthesis and comparative analysis of biochar based form-stable phase change materials for thermal management of buildings. 2022 , 55, 105801	O
39	Multivariate analysis for assessing the thermal performance of vertical opaque envelopes in extended regions. 174425912211272	1
38	Numerical models of heat storage with respect to phase change materials considering hysteresis. 2022 , 55, 105758	O
37	Phase change material applied in solar heating for buildings: A review. 2022 , 55, 105826	О
36	Comprehensive review on cascaded latent heat storage technology: Recent advances and challenges. 2022 , 55, 105713	O
35	Magnesium Oxychloride Cement with Phase Change Material: Novel Environmentally-friendly Composites for Heat Storage. 2022 ,	2
34	Combined use of phase change material and thermal insulation to improve energy efficiency of residential buildings. 2022 , 56, 105880	O
33	Description of phase change materials (PCMs) used in buildings under various climates: A review. 2022 , 56, 105760	2
32	Octadecane filled bubble wrap as phase change material layers to smooth temperature variations of buildings during summer time. An experimental study. 2022 , 277, 112568	O

31	Numerical Study on the Combined Use of Corten Steel and Phase Change Materials in Container-Type Houses. 2023 , 19, 953-958	Ο
30	Effects of shape-stabilized phase change materials in cementitious composites on thermal-mechanical properties and economic benefits. 2023 , 219, 119444	Ο
29	Effect of air inlet and outlet cross sections on the cooling system of cylindrical lithium battery with segmental arrangement utilized in electric vehicles. 2023 , 553, 232222	0
28	Microfluidic methodâBased encapsulated phase change materials: Fundamentals, progress, and prospects. 2023 , 171, 112998	O
27	Optimization of the utilization of phase change materials in planar structures to control and optimize energy flux. 2022 , 139, 106481	O
26	Shape-stabilized phase change material for thermal energy storage: Sr+2 doped BaCO3 matrix incorporating polyethylene glycol. 2023 , 58, 106369	1
25	Preparation of hierarchical porous microspheres composite phase change material for thermal energy storage concrete in buildings. 2023 , 232, 106771	0
24	Effect of latent heat storage on thermal comfort and energy consumption in lightweight earth-based housings. 2023 , 229, 109915	O
23	Numerical analysis of heat flux passing through an anti-theft door armed by phase change materials.	0
22	Heat storage material: a hope in solar thermal.	Ο
21	Advances in the Study of Phase Change Materials and Ne-PCMs for the Storage of Energy Applications. 307-316	0
20	Influence of SiC on the thermal energy transfer and storage characteristics of microwave-absorbing concrete containing magnetite and/or carbonyl iron powder. 2023 , 366, 130191	Ο
19	Democratized innovation & amp; accessible thermal testing: The approachable hot box. 2023 , 281, 112769	Ο
18	Energy, exergy, economic and environmental analyses of solar air heating systems with and without thermal energy storage for sustainable development: A systematic review. 2023 , 59, 106521	1
17	Preparation, performance study and application simulation of gypsum-paraffin/EG composite phase change building wallboard. 2023 , 65, 105813	0
16	A LITERATURE REVIEW ABOUT EFFECTS of PHASE CHANGING MATERIALS on COMPRESSIVE STRENGTH and THERMAL CONDUCTIVITY of BUILDING COMPONENTS. 2022 , 10, 1495-1508	O
15	Synthesis and Characterization of TitaniaâMXene-Based Phase Change Material for Sustainable Thermal Energy Storage. 2023 , 15, 516	1
14	Prospects and challenges of phase change materials (PCMs) integrated into building glazing systems. 1420326X2311549	1

13	Study on optimization of thermal property parameters of phase change wallboard and its application simulation in the building. 2023 , 61, 106773	О
12	A metal mesh net-packed method for improving thermochemical energy storage reactor performance by increasing the void fraction. 2023 , 225, 120248	O
11	Adaptive dynamic building envelope integrated with phase change material to enhance the heat storage and release efficiency: A state-of-the-art review. 2023 , 286, 112928	0
10	A comprehensive review of integrating phase change materials in building bricks: Methods, performance and applications. 2023 , 62, 106913	1
9	Thermophysical characterization of paraffin-based PCMs for low temperature thermal energy storage applications for buildings. 2023 , 269, 126745	1
8	Thermal energy storage using phase change materials in building applications: A review of the recent development. 2023 , 285, 112908	o
7	Phase-Change-Material-Impregnated Wood for Potential Energy-Saving Building Materials. 2023 , 14, 514	0
6	Thermal energy storage methods. 2023 , 1-93	O
5	Numerical modeling of conjugate heat transfer through concrete hollow bricks.	0
4	Evolution of heat transfer in phase change material. 2023 , 249-265	O
3	Phase change materials applications in buildings. 2023 , 225-248	O
2	Comparative Testing Lightweight Buildings with PCMs within a Whole-Building Simulation Level. 2022 , 58, 689-696	o
1	Quantifying thermal resilience of office buildings during power outages: Development of a simplified model metric and validation through experimentation. 2023 , 72, 106564	0