# Camila Barreneche

# List of Publications by Year in Descending Order

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

60 126 17,296 275 h-index g-index citations papers 280 7.26 20,107 7.3 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
275	A detailed energy analysis of a novel evaporator with latent thermal energy storage ability. <i>Applied Thermal Engineering</i> , <b>2022</b> , 201, 117844	5.8	4
274	Novel sampling procedure and statistical analysis for the thermal characterization of ionic nanofluids. <i>Journal of Molecular Liquids</i> , <b>2022</b> , 347, 118316	6	
273	Thermal energy storage for electric vehicles at low temperatures: Concepts, systems, devices and materials. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 160, 112263	16.2	3
272	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> , <b>2022</b> , 250, 123768	7.9	2
271	The relevance of thermochemical energy storage in the last two decades: The analysis of research evolution. <i>Journal of Energy Storage</i> , <b>2022</b> , 51, 104377	7.8	1
270	Thermo-mechanical stability of concrete containing steel slag as aggregate after high temperature thermal cycles. <i>Solar Energy</i> , <b>2022</b> , 239, 59-73	6.8	1
269	Bayesian optimization for effective thermal conductivity measurement of thermal energy storage: An experimental and numerical approach. <i>Journal of Energy Storage</i> , <b>2022</b> , 52, 104795	7.8	2
268	Heat Transfer Enhancement for Latent Heat Storage Components 2022, 675-693		
267	Effect of Nanoparticles on the Thermal Stability and Reaction Kinetics in Ionic Nanofluids. <i>Nanomaterials</i> , <b>2022</b> , 12, 1777	5.4	O
266	Simulated performance of a solar-assisted heat pump system including a phase-change storage tank for residential heating applications: A case study in Madrid, Spain. <i>Journal of Energy Storage</i> , <b>2021</b> , 47, 103615	7.8	1
265	Introduction to the Section on Thermodynamics of Energy Storage <b>2021</b> ,		
264	Introduction to Thermal Energy Storage and Technologies Definition 2021,		
263	Thermal Energy Storage Materials (TESMs) What Does It Take to Make Them Fly?. <i>Crystals</i> , <b>2021</b> , 11, 1276	2.3	5
262	Understanding the abnormal thermal behavior of nanofluids through infrared thermography and thermo-physical characterization. <i>Scientific Reports</i> , <b>2021</b> , 11, 4879	4.9	2
261	Thermal cycling test of solid particles to be used in concentrating solar power plants. <i>Solar Energy Materials and Solar Cells</i> , <b>2021</b> , 222, 110936	6.4	3
260	Viscoelastic characterization of seven laminated glass interlayer materials from static tests. <i>Construction and Building Materials</i> , <b>2021</b> , 279, 122503	6.7	5
259	Influence of thermal treatments on the absorption and thermal properties of a clay mineral support used for shape-stabilization of fatty acids <i>Journal of Energy Storage</i> , <b>2021</b> , 36, 102427	7.8	6

# (2021-2021)

258	technologies, and applications: State of the art and recent developments. <i>Applied Energy</i> , <b>2021</b> , 288, 116555	10.7	21
257	Shell-and-Tube Latent Heat Thermal Energy Storage Design Methodology with Material Selection, Storage Performance Evaluation, and Cost Minimization. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 4180	2.6	1
256	Novel Shape-Stabilized Phase Change Material with Cascade Character: Synthesis, Performance and Shaping Evaluation. <i>Energies</i> , <b>2021</b> , 14, 2621	3.1	1
255	Recent developments of thermal energy storage applications in the built environment: A bibliometric analysis and systematic review. <i>Applied Thermal Engineering</i> , <b>2021</b> , 189, 116666	5.8	28
254	Trends and future perspectives on the integration of phase change materials in heat exchangers. Journal of Energy Storage, <b>2021</b> , 38, 102544	7.8	5
253	Research progress and trends on the use of concrete as thermal energy storage material through bibliometric analysis. <i>Journal of Energy Storage</i> , <b>2021</b> , 38, 102562	7.8	4
252	Advanced Concrete Steam Accumulation Tanks for Energy Storage for Solar Thermal Electricity. <i>Energies</i> , <b>2021</b> , 14, 3896	3.1	1
251	Long-term loading and recovery of a laminated glass slab with three different interlayers. <i>Construction and Building Materials</i> , <b>2021</b> , 287, 122991	6.7	3
250	Comparative study between heat pipe and shell-and-tube thermal energy storage. <i>Applied Thermal Engineering</i> , <b>2021</b> , 192, 116974	5.8	5
249	Concentrating Solar Power Technologies: A Bibliometric Study of Past, Present and Future Trends in Concentrating Solar Power Research. <i>Frontiers in Mechanical Engineering</i> , <b>2021</b> , 7,	2.6	3
248	Experimental Study on Two PCM Macro-Encapsulation Designs in a Thermal Energy Storage Tank. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 6171	2.6	4
247	Biobased phase change materials for cooling in buildings <b>2021</b> , 291-302		
246	Embodied energy and embodied carbon of structural building materials: Worldwide progress and barriers through literature map analysis. <i>Energy and Buildings</i> , <b>2021</b> , 231, 110612	7	28
245	Introduction to thermal energy storage systems <b>2021</b> , 1-33		3
244	Characterization and testing of solid particles to be used in CSP plants: Aging and fluidization tests. <i>Solar Energy Materials and Solar Cells</i> , <b>2021</b> , 219, 110793	6.4	13
243	Waste heat recovery using thermal energy storage <b>2021</b> , 639-653		O
242	Active Thermal Energy Storage (TES) With Phase Change Materials (PCM) for High Temperature <b>2021</b> ,		
241	Components. Thermal Energy Storage <b>2021</b> ,		

240 Thermal energy storage systems for cooling in residential buildings **2021**, 595-623

239	Improvement of Phase Change Materials (PCM) Used for Solar Process Heat Applications. <i>Molecules</i> , <b>2021</b> , 26,	4.8	7
238	Degradation of Fatty Acid Phase-Change Materials (PCM): New Approach for Its Characterization. <i>Molecules</i> , <b>2021</b> , 26,	4.8	2
237	Thermal reliability of organic-organic phase change materials and their shape-stabilized composites. <i>Journal of Energy Storage</i> , <b>2021</b> , 40, 102661	7.8	4
236	A framework for sustainable evaluation of thermal energy storage in circular economy. <i>Renewable Energy</i> , <b>2021</b> , 175, 686-701	8.1	4
235	Experimental determination of thermal conductivity of fatty acid binary mixtures and their shape-stabilized composites. <i>Renewable Energy</i> , <b>2021</b> , 175, 1167-1173	8.1	1
234	Experimental analysis of a latent thermal energy storage system enhanced with metal foam. Journal of Energy Storage, 2021, 41, 102860	7.8	5
233	Perspectives on thermal energy storage research. <i>Energy</i> , <b>2021</b> , 231, 120943	7.9	13
232	Systematic review on model predictive control strategies applied to active thermal energy storage systems. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 149, 111385	16.2	10
231	Thermal energy storage with phase change materials in solar power plants. Economic analysis. Journal of Energy Storage, <b>2021</b> , 43, 103184	7.8	4
230	Double-lap shear test on laminated glass specimens under diverse ageing conditions. <i>Construction and Building Materials</i> , <b>2020</b> , 249, 118784	6.7	3
229	Hybrid 3 in 1 thermal energy storage system ©utlook for a novel storage strategy. <i>Applied Energy</i> , <b>2020</b> , 274, 115024	10.7	12
228	Experimental and Computational Study of the Implementation of mPCM-Modified Gypsum Boards in a Test Enclosure. <i>Buildings</i> , <b>2020</b> , 10, 15	3.2	5
227	Selection of the Appropriate Phase Change Material for Two Innovative Compact Energy Storage Systems in Residential Buildings. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 2116	2.6	20
226	Evaluation of volume change in phase change materials during their phase transition. <i>Journal of Energy Storage</i> , <b>2020</b> , 28, 101206	7.8	16
225	Effect of nanoparticles in molten salts IMD simulations and experimental study. <i>Renewable Energy</i> , <b>2020</b> , 152, 208-216	8.1	17
224	New coloured coatings to enhance silica sand absorbance for direct particle solar receiver applications. <i>Renewable Energy</i> , <b>2020</b> , 152, 1-8	8.1	9
223	Tensile test on interlayer materials for laminated glass under diverse ageing conditions and strain rates. <i>Construction and Building Materials</i> , <b>2020</b> , 243, 118230	6.7	10

222	Novel geopolymer for use as a sensible storage option in high temperature thermal energy storage systems <b>2020</b> ,		3	
221	Thermal energy storage technologies for concentrated solar power IA review from a materials perspective. <i>Renewable Energy</i> , <b>2020</b> , 156, 1244-1265	8.1	77	
220	Corrosion assessment of promising hydrated salts as sorption materials for thermal energy storage systems. <i>Renewable Energy</i> , <b>2020</b> , 150, 428-434	8.1	10	
219	Sustainable adobe bricks with seagrass fibres. Mechanical and thermal properties characterization. <i>Construction and Building Materials</i> , <b>2020</b> , 239, 117669	6.7	20	
218	Building thermal storage technology: Compensating renewable energy fluctuations. <i>Journal of Energy Storage</i> , <b>2020</b> , 27, 101147	7.8	12	
217	Behaviour of a concrete wall containing micro-encapsulated PCM after a decade of its construction. <i>Solar Energy</i> , <b>2020</b> , 200, 108-113	6.8	35	
216	Dynamic Corrosion Test Using LiNO3 Containing Molten Salt for CSP Applications. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 4305	2.6	3	
215	Experimental Devices to Investigate the Long-Term Stability of Phase Change Materials under Application Conditions. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 7968	2.6	5	
214	Techno-Economic Analysis of a Heat Pump Cycle Including a Three-Media Refrigerant/Phase Change Material/Water Heat Exchanger in the Hot Superheated Section for Efficient Domestic Hot Water Generation. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 7873	2.6	6	
213	Performance Study of Direct Integration of Phase Change Material into an Innovative Evaporator of a Simple Vapour Compression System. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 4649	2.6	12	
212	Assessing corrosive behaviour of commercial phase change materials in the 21 <b>2</b> 5 IC temperature range. <i>Journal of Energy Storage</i> , <b>2020</b> , 32, 101711	7.8	1	
211	Bibliometric analysis of smart control applications in thermal energy storage systems. A model predictive control approach. <i>Journal of Energy Storage</i> , <b>2020</b> , 32, 101704	7.8	25	
210	Systematic review on the use of heat pipes in latent heat thermal energy storage tanks. <i>Journal of Energy Storage</i> , <b>2020</b> , 32, 101733	7.8	18	
209	Advances Toward a Net-Zero Global Building Sector. <i>Annual Review of Environment and Resources</i> , <b>2020</b> , 45, 227-269	17.2	37	
208	Where is Thermal Energy Storage (TES) research going? 🖪 bibliometric analysis. <i>Solar Energy</i> , <b>2020</b> , 200, 37-50	6.8	32	
207	Polymeric interlayer materials for laminated glass: A review. <i>Construction and Building Materials</i> , <b>2020</b> , 230, 116897	6.7	38	
206	Technological options and strategies towards zero energy buildings contributing to climate change mitigation: A systematic review. <i>Energy and Buildings</i> , <b>2020</b> , 219, 110009	7	62	
205	Synthesis and Thermophysical Characterization of Fatty Amides for Thermal Energy Storage. <i>Molecules</i> , <b>2019</b> , 24,	4.8	4	

204	TES-PS10 postmortem tests: Carbon steel corrosion performance exposed to molten salts under relevant operation conditions and lessons learnt for commercial scale-up. <i>Journal of Energy Storage</i> , <b>2019</b> , 26, 100922	7.8	4
203	Magnesium sulphate-silicone foam composites for thermochemical energy storage: Assessment of dehydration behaviour and mechanical stability. <i>Solar Energy Materials and Solar Cells</i> , <b>2019</b> , 200, 1099	92 <sup>6.4</sup>	20
202	Corrosion Assessment of Myo-Inositol Sugar Alcohol as a Phase Change Material in Storage Systems Connected to Fresnel Solar Plants. <i>Molecules</i> , <b>2019</b> , 24,	4.8	5
201	Review of solid particle materials for heat transfer fluid and thermal energy storage in solar thermal power plants. <i>Energy Storage</i> , <b>2019</b> , 1, e63	2.8	21
200	Assessing the Potentiality of Animal Fat Based-Bio Phase Change Materials (PCM) for Building Applications: An Innovative Multipurpose Thermal Investigation. <i>Energies</i> , <b>2019</b> , 12, 1111	3.1	15
199	Development of new nano-enhanced phase change materials (NEPCM) to improve energy efficiency in buildings: Lab-scale characterization. <i>Energy and Buildings</i> , <b>2019</b> , 192, 75-83	7	26
198	Thermal conductivity measurement techniques for characterizing thermal energy storage materials [A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 108, 32-52	16.2	60
197	Mainstreaming commercial CSP systems: A technology review. <i>Renewable Energy</i> , <b>2019</b> , 140, 152-176	8.1	103
196	Own-Synthetize Nanoparticles to Develop Nano-Enhanced Phase Change Materials (NEPCM) to Improve the Energy Efficiency in Buildings. <i>Molecules</i> , <b>2019</b> , 24,	4.8	7
195	Asphalt emulsion formulation: State of the art of formulation, properties and results of HIPR emulsions. <i>Construction and Building Materials</i> , <b>2019</b> , 212, 19-26	6.7	11
194	Experimental evaluation of the use of fins and metal wool as heat transfer enhancement techniques in a latent heat thermal energy storage system. <i>Energy Conversion and Management</i> , <b>2019</b> , 184, 530-538	10.6	43
193	Effect of the impurity magnesium nitrate in the thermal decomposition of the solar salt. <i>Solar Energy</i> , <b>2019</b> , 192, 186-192	6.8	8
192	Latent thermal energy storage for solar process heat applications at medium-high temperatures [] A review. <i>Solar Energy</i> , <b>2019</b> , 192, 3-34	6.8	66
191	Thermal energy storage (TES) with phase change materials (PCM) in solar power plants (CSP). Concept and plant performance. <i>Applied Energy</i> , <b>2019</b> , 254, 113646	10.7	77
190	Alkali-Activated Cements for TES Materials in BuildingsTEnvelops Formulated With Glass Cullet Recycling Waste and Microencapsulated Phase Change Materials. <i>Materials</i> , <b>2019</b> , 12,	3.5	5
189	Study on solar absorptance and thermal stability of solid particles materials used as TES at high temperature on different aging stages for CSP applications. <i>Solar Energy Materials and Solar Cells</i> , <b>2019</b> , 201, 110088	6.4	10
188	Comparative Analysis of Energy Demand and CO2 Emissions on Different Typologies of Residential Buildings in Europe. <i>Energies</i> , <b>2019</b> , 12, 2436	3.1	7
187	Innovative composite sorbent for thermal energy storage based on a SrBr2l6H2O filled silicone composite foam. <i>Journal of Energy Storage</i> , <b>2019</b> , 26, 100954	7.8	11

186	Thermal energy storage in solar energy systems: editorial. <i>Solar Energy</i> , <b>2019</b> , 192, 1-2	6.8	5
185	Experimental Characterization of Latent Thermal Energy Storage Systems. <i>Green Energy and Technology</i> , <b>2019</b> , 173-200	0.6	
184	Corrosion Characterization in Components for Thermal Energy Storage Applications. <i>Green Energy and Technology</i> , <b>2019</b> , 139-169	0.6	1
183	Materials Selection for Thermal Energy Storage Applications Case Studies. <i>Green Energy and Technology</i> , <b>2019</b> , 55-66	0.6	1
182	Experimental Methods for the Characterization of Materials for Latent Thermal Energy Storage. <i>Green Energy and Technology</i> , <b>2019</b> , 89-101	0.6	1
181	Experimental results of mechanical, adhesive, and laminated connections for laminated glass elements [A review. <i>Engineering Structures</i> , <b>2019</b> , 180, 192-204	4.7	17
180	Evaluation of energy density as performance indicator for thermal energy storage at material and system levels. <i>Applied Energy</i> , <b>2019</b> , 235, 954-962	10.7	29
179	Corrosion monitoring and mitigation techniques on advanced thermal energy storage materials for CSP plants. <i>Solar Energy Materials and Solar Cells</i> , <b>2019</b> , 192, 179-187	6.4	29
178	Benchmarking of useful phase change materials for a building application. <i>Energy and Buildings</i> , <b>2019</b> , 182, 45-50	7	35
177	Life cycle costing as a bottom line for the life cycle sustainability assessment in the solar energy sector: A review. <i>Solar Energy</i> , <b>2019</b> , 192, 238-262	6.8	26
176	Use of partial load operating conditions for latent thermal energy storage management. <i>Applied Energy</i> , <b>2018</b> , 216, 234-242	10.7	23
175	New formulation and characterization of enhanced bulk-organic phase change materials. <i>Energy and Buildings</i> , <b>2018</b> , 167, 38-48	7	14
174	Multifunctional smart concretes with novel phase change materials: Mechanical and thermo-energy investigation. <i>Applied Energy</i> , <b>2018</b> , 212, 1448-1461	10.7	69
173	High temperature systems using solid particles as TES and HTF material: A review. <i>Applied Energy</i> , <b>2018</b> , 213, 100-111	10.7	41
172	Thermal stress reduction in cool roof membranes using phase change materials (PCM). <i>Energy and Buildings</i> , <b>2018</b> , 158, 1097-1105	7	41
171	Comparison of past projections of global and regional primary and final energy consumption with historical data. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 82, 681-688	16.2	22
170	Thermomechanical testing under operating conditions of A516Gr70 used for CSP storage tanks. <i>Solar Energy Materials and Solar Cells</i> , <b>2018</b> , 174, 509-514	6.4	5
169	Influence of nanoparticle morphology and its dispersion ability regarding thermal properties of water used as phase change material. <i>Applied Thermal Engineering</i> , <b>2018</b> , 128, 121-126	5.8	21

168	Phase Change Material Selection for Thermal Energy Storage at High Temperature Range between 210 LC and 270 LC. <i>Energies</i> , <b>2018</b> , 11, 861	3.1	21
167	Static Concept at University of Lleida <b>2018</b> , 131-156		
166	Study of the Thermal Properties and the Fire Performance of Flame Retardant-Organic PCM in Bulk Form. <i>Materials</i> , <b>2018</b> , 11,	3.5	13
165	Corrosion of AISI316 as containment material for latent heat thermal energy storage systems based on carbonates. <i>Solar Energy Materials and Solar Cells</i> , <b>2018</b> , 186, 1-8	6.4	8
164	Combining biocatalysts to achieve new phase change materials. Application to non-edible animal fat. <i>Molecular Catalysis</i> , <b>2018</b> , 444, 76-83	3.3	5
163	Enthalpy-temperature plots to compare calorimetric measurements of phase change materials at different sample scales. <i>Journal of Energy Storage</i> , <b>2018</b> , 15, 32-38	7.8	22
162	Trends in penetration and ownership of household appliances. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 82, 4044-4059	16.2	10
161	Household appliances penetration and ownership trends in residential buildings. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 98, 1-8	16.2	6
160	Review of Reactors with Potential Use in Thermochemical Energy Storage in Concentrated Solar Power Plants. <i>Energies</i> , <b>2018</b> , 11, 2358	3.1	41
159	Process integration of thermal energy storage systems Evaluation methodology and case studies. <i>Applied Energy</i> , <b>2018</b> , 230, 750-760	10.7	33
158	Multi-objective optimisation of bio-based thermal insulation materials in building envelopes considering condensation risk. <i>Applied Energy</i> , <b>2018</b> , 224, 602-614	10.7	42
157	Heating and cooling energy trends and drivers in Europe. <i>Energy</i> , <b>2017</b> , 119, 425-434	7.9	43
156	Empirical equations for viscosity and specific heat capacity determination of fatty acids. <i>Journal of Energy Storage</i> , <b>2017</b> , 10, 20-27	7.8	11
155	Materials selection for thermal energy storage systems in parabolic trough collector solar facilities using high chloride content nitrate salts. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 163, 134-147	6.4	23
154	New proposed methodology for specific heat capacity determination of materials for thermal energy storage (TES) by DSC. <i>Journal of Energy Storage</i> , <b>2017</b> , 11, 1-6	7.8	60
153	Critical analysis of the T-history method: A fundamental approach. <i>Thermochimica Acta</i> , <b>2017</b> , 650, 95-	1 <b>05</b> .9	27
152	The connection between the heat storage capability of PCM as a material property and their performance in real scale applications. <i>Journal of Energy Storage</i> , <b>2017</b> , 13, 35-39	7.8	27
151	Simulation-based optimization of PCM melting temperature to improve the energy performance in buildings. <i>Applied Energy</i> , <b>2017</b> , 202, 420-434	10.7	153

# (2017-2017)

150	Passive cooling of buildings with phase change materials using whole-building energy simulation tools: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 80, 1239-1255	16.2	128
149	Characterization of wastes based on inorganic double salt hydrates as potential thermal energy storage materials. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 170, 149-159	6.4	39
148	Fatty acid eutectic mixtures and derivatives from non-edible animal fat as phase change materials. <i>RSC Advances</i> , <b>2017</b> , 7, 24133-24139	3.7	26
147	Influence of the heat transfer fluid in a CSP plant molten salts charging process. <i>Renewable Energy</i> , <b>2017</b> , 113, 148-158	8.1	19
146	Empirical equation to estimate viscosity of paraffin. <i>Journal of Energy Storage</i> , <b>2017</b> , 11, 154-161	7.8	11
145	Thermal characterization of different substrates under dried conditions for extensive green roofs. <i>Energy and Buildings</i> , <b>2017</b> , 144, 175-180	7	17
144	Review on system and materials requirements for high temperature thermal energy storage. Part 1: General requirements. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 75, 1320-1338	16.2	82
143	Empirical equations for viscosity and specific heat capacity determination of paraffin PCM and fatty acid PCM. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 251, 012114	0.4	2
142	Buildings Life Cycle Assessment <b>2017</b> , 275-290		4
141	PCM/wood composite to store thermal energy in passive building envelopes. <i>IOP Conference Series:</i> Materials Science and Engineering, <b>2017</b> , 251, 012111	0.4	15
140	High density polyethylene spheres with PCM for domestic hot water applications: Water tank and laboratory scale study. <i>Journal of Energy Storage</i> , <b>2017</b> , 13, 262-267	7.8	37
139	Considerations for the use of metal alloys as phase change materials for high temperature applications. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 171, 275-281	6.4	7 <sup>2</sup>
138	Ionic compounds derived from crude glycerol: Thermal energy storage capability evaluation. <i>Renewable Energy</i> , <b>2017</b> , 114, 629-637	8.1	7
137	Experimental validation of the exact analytical solution to the steady periodic heat transfer problem in a PCM layer. <i>Energy</i> , <b>2017</b> , 140, 1131-1147	7.9	27
136	Method for controlling mean droplet size in the manufacture of phase inversion bituminous emulsions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2017</b> , 527, 49-54	5.1	12
135	Materials selection of steam-phase change material (PCM) heat exchanger for thermal energy storage systems in direct steam generation facilities. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 159, 526-535	6.4	21
134	Thermochemical energy storage by consecutive reactions for higher efficient concentrated solar power plants (CSP): Proof of concept. <i>Applied Energy</i> , <b>2017</b> , 185, 836-845	10.7	37
133	Review on sorption materials and technologies for heat pumps and thermal energy storage.  Renewable Energy, 2017, 110, 3-39	8.1	126

132	Phase Change Material Selection for Thermal Processes Working under Partial Load Operating Conditions in the Temperature Range between 120 and 200 °C. Applied Sciences (Switzerland), 2017, 7, 722	2.6	25
131	Storage Stability of Bimodal Emulsions vs. Monomodal Emulsions. <i>Applied Sciences (Switzerland)</i> , <b>2017</b> , 7, 1267	2.6	7
130	In situ thermal and acoustic performance and environmental impact of the introduction of a shape-stabilized PCM layer for building applications. <i>Renewable Energy</i> , <b>2016</b> , 85, 281-286	8.1	35
129	Thermal energy storage in building integrated thermal systems: A review. Part 2. Integration as passive system. <i>Renewable Energy</i> , <b>2016</b> , 85, 1334-1356	8.1	155
128	MSWI bottom ash for thermal energy storage: An innovative and sustainable approach for its reutilization. <i>Renewable Energy</i> , <b>2016</b> , 99, 431-436	8.1	9
127	Characterization of granular phase change materials for thermal energy storage applications in fluidized beds. <i>Applied Energy</i> , <b>2016</b> , 181, 310-321	10.7	9
126	Thermal storage in a MW scale. Molten salt solar thermal pilot facility: Plant description and commissioning experiences. <i>Renewable Energy</i> , <b>2016</b> , 99, 852-866	8.1	32
125	Influence of alkaline chlorides on thermal energy storage properties of bischofite. <i>International Journal of Energy Research</i> , <b>2016</b> , 40, 1556-1563	4.5	7
124	Use of multi-layered PCM gypsums to improve fire response. Physical, thermal and mechanical characterization. <i>Energy and Buildings</i> , <b>2016</b> , 127, 1-9	7	21
123	Corrosion testing device for in-situ corrosion characterization in operational molten salts storage tanks: A516 Gr70 carbon steel performance under molten salts exposure. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 157, 383-392	6.4	51
122	Advances in the valorization of waste and by-product materials as thermal energy storage (TES) materials. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 59, 763-783	16.2	83
121	Experimental evaluation of a concrete core slab with phase change materials for cooling purposes. <i>Energy and Buildings</i> , <b>2016</b> , 116, 411-419	7	23
120	The State of the Art for Technologies Used to Decrease Demand in Buildings: Thermal Energy Storage <b>2016</b> , 319-348		1
119	Types, methods, techniques, and applications for microencapsulated phase change materials (MPCM): A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 53, 1059-1075	16.2	286
118	Materials and system requirements of high temperature thermal energy storage systems: A review. Part 2: Thermal conductivity enhancement techniques. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 60, 1584-1601	16.2	48
117	Thermal energy storage for renewable heating and cooling systems <b>2016</b> , 139-179		6
116	Use of by-products as additives in adobe bricks: Mechanical properties characterisation. <i>Construction and Building Materials</i> , <b>2016</b> , 108, 105-111	6.7	20
115	Review of technology: Thermochemical energy storage for concentrated solar power plants. Renewable and Sustainable Energy Reviews, 2016, 60, 909-929	16.2	218

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114	Health hazard, cycling and thermal stability as key parameters when selecting a suitable phase change material (PCM). <i>Thermochimica Acta</i> , <b>2016</b> , 627-629, 39-47	2.9	41
113	Economic impact of integrating PCM as passive system in buildings using Fanger comfort model. <i>Energy and Buildings</i> , <b>2016</b> , 112, 159-172	7	109
112	Corrosion evaluation and prevention of reactor materials to contain thermochemical material for thermal energy storage. <i>Applied Thermal Engineering</i> , <b>2016</b> , 94, 355-363	5.8	10
111	Innovative cool roofing membrane with integrated phase change materials: Experimental characterization of morphological, thermal and optic-energy behavior. <i>Energy and Buildings</i> , <b>2016</b> , 112, 40-48	7	26
110	Thermal energy storage in building integrated thermal systems: Alreview. Part 1. active storage systems. <i>Renewable Energy</i> , <b>2016</b> , 88, 526-547	8.1	178
109	Mechanical response evaluation of microcapsules from different slurries. <i>Renewable Energy</i> , <b>2016</b> , 85, 732-739	8.1	13
108	Experimental Evaluation of a Paraffin as Phase Change Material for Thermal Energy Storage in Laboratory Equipment and in a Shell-and-Tube Heat Exchanger. <i>Applied Sciences (Switzerland)</i> , <b>2016</b> , 6, 112	2.6	33
107	Preparation and Characterization of Inorganic PCM Microcapsules by Fluidized Bed Method. <i>Materials</i> , <b>2016</b> , 9,	3.5	27
106	Compatibility of materials for macroencapsulation of inorganic phase change materials: Experimental corrosion study. <i>Applied Thermal Engineering</i> , <b>2016</b> , 107, 410-419	5.8	25
105	Industrial waste materials and by-products as thermal energy storage (TES) materials: A review <b>2016</b> ,		3
104	Acoustic insulation capacity of Vertical Greenery Systems for buildings. <i>Applied Acoustics</i> , <b>2016</b> , 110, 218-226	3.1	59
104		3.1	59 28
ŕ	110, 218-226  Molten salt facilities, lessons learnt at pilot plant scale to guarantee commercial plants; heat losses		
103	Molten salt facilities, lessons learnt at pilot plant scale to guarantee commercial plants; heat losses evaluation and correction. <i>Renewable Energy</i> , <b>2016</b> , 94, 175-185  Reduction of the subcooling of bischofite with the use of nucleatings agents. <i>Solar Energy Materials</i>	8.1	28
103	Molten salt facilities, lessons learnt at pilot plant scale to guarantee commercial plants; heat losses evaluation and correction. <i>Renewable Energy</i> , <b>2016</b> , 94, 175-185  Reduction of the subcooling of bischofite with the use of nucleatings agents. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 157, 1011-1018  Study of corrosion by Dynamic Gravimetric Analysis (DGA) methodology. Influence of chloride	8.1	28
103	Molten salt facilities, lessons learnt at pilot plant scale to guarantee commercial plants; heat losses evaluation and correction. <i>Renewable Energy</i> , <b>2016</b> , 94, 175-185  Reduction of the subcooling of bischofite with the use of nucleatings agents. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 157, 1011-1018  Study of corrosion by Dynamic Gravimetric Analysis (DGA) methodology. Influence of chloride content in solar salt. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 157, 526-532  IEA SHC Task 42 / ECES Annex 29 WG A1: Engineering and Processing of PCMs, TCMs and Sorption	8.1 6.4 6.4	28 28 21
103 102 101	Molten salt facilities, lessons learnt at pilot plant scale to guarantee commercial plants; heat losses evaluation and correction. <i>Renewable Energy</i> , <b>2016</b> , 94, 175-185  Reduction of the subcooling of bischofite with the use of nucleatings agents. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 157, 1011-1018  Study of corrosion by Dynamic Gravimetric Analysis (DGA) methodology. Influence of chloride content in solar salt. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 157, 526-532  IEA SHC Task 42 / ECES Annex 29 WG A1: Engineering and Processing of PCMs, TCMs and Sorption Materials. <i>Energy Procedia</i> , <b>2016</b> , 91, 207-217  Energy savings due to the use of PCM for relocatable lightweight buildings passive heating and	8.1 6.4 6.4	28 28 21

96	Thermal performance evaluation of bischofite at pilot plant scale. <i>Applied Energy</i> , <b>2015</b> , 155, 826-833	10.7	12
95	Use of polyethylene glycol for the improvement of the cycling stability of bischofite as thermal energy storage material. <i>Applied Energy</i> , <b>2015</b> , 154, 616-621	10.7	23
94	Phase change materials and thermal energy storage for buildings. <i>Energy and Buildings</i> , <b>2015</b> , 103, 414-	4 <del>/</del> 19	361
93	Review on the methodology used in thermal stability characterization of phase change materials. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 50, 665-685	16.2	82
92	PCM incorporation in a concrete core slab as a thermal storage and supply system: Proof of concept. <i>Energy and Buildings</i> , <b>2015</b> , 103, 70-82	7	58
91	Key performance indicators in thermal energy storage: Survey and assessment. <i>Renewable Energy</i> , <b>2015</b> , 83, 820-827	8.1	48
90	CO 2 mitigation accounting for Thermal Energy Storage (TES) case studies. <i>Applied Energy</i> , <b>2015</b> , 155, 365-377	10.7	41
89	Phase-change materials for reducing building cooling needs <b>2015</b> , 381-399		4
88	State of the art on gasFolid thermochemical energy storage systems and reactors for building applications. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 47, 386-398	16.2	126
87	New database to select phase change materials: Chemical nature, properties, and applications. <i>Journal of Energy Storage</i> , <b>2015</b> , 3, 18-24	7.8	39
86	Unconventional experimental technologies available for phase change materials (PCM) characterization. Part 1. Thermophysical properties. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 43, 1399-1414	16.2	65
85	Corrosion of metal containers for use in PCM energy storage. <i>Renewable Energy</i> , <b>2015</b> , 76, 465-469	8.1	68
84	Unconventional experimental technologies used for phase change materials (PCM) characterization: part 2 Imorphological and structural characterization, physico-chemical stability and mechanical properties. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 43, 1415-1426	16.2	22
83	Composite gypsum containing fatty-ester PCM to be used as constructive system: Thermophysical characterization of two shape-stabilized formulations. <i>Energy and Buildings</i> , <b>2015</b> , 86, 190-193	7	13
82	Heating and cooling energy trends and drivers in buildings. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 41, 85-98	16.2	464
81	Introduction to thermal energy storage (TES) systems <b>2015</b> , 1-28		31
80	Lithium in thermal energy storage: A state-of-the-art review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 42, 1106-1112	16.2	77
79	Thermal energy storage (TES) systems using heat from waste <b>2015</b> , 479-492		8

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78	Corrosion of metals and salt hydrates used for thermochemical energy storage. <i>Renewable Energy</i> , <b>2015</b> , 75, 519-523	8.1	64
77	Thermophysical characterization of a by-product from the non-metallic industry as inorganic PCM. <i>Solar Energy Materials and Solar Cells</i> , <b>2015</b> , 132, 385-391	6.4	46
76	PCM Storage <b>2015</b> , 1-23		6
75	Thermal Energy Storage Materials Challenges and Availability <b>2015</b> , 1-11		
74	TES Materials: Embodied Energy and CO2 Footprint <b>2015</b> , 1-9		
73	Energy Efficiency Indicators for Assessing Construction Systems Storing Renewable Energy: Application to Phase Change Material-Bearing Falldes. <i>Energies</i> , <b>2015</b> , 8, 8630-8649	3.1	6
72	Study of Fresh and Hardening Process Properties of Gypsum with Three Different PCM Inclusion Methods. <i>Materials</i> , <b>2015</b> , 8, 6589-6596	3.5	5
71	Industrial waste heat recovery technologies: An economic analysis of heat transformation technologies. <i>Applied Energy</i> , <b>2015</b> , 151, 157-167	10.7	257
70	Comparison of phase change slurries: Physicochemical and thermal properties. <i>Energy</i> , <b>2015</b> , 87, 223-27	<b>27</b> .9	21
69	Thermophysical characterization and thermal cycling stability of two TCM: CaCl2 and zeolite. <i>Applied Energy</i> , <b>2015</b> , 137, 726-730	10.7	41
68	Embodied energy in thermal energy storage (TES) systems for high temperature applications. <i>Applied Energy</i> , <b>2015</b> , 137, 793-799	10.7	43
67	Use of PCMpolymer composite dense sheet including EAFD in constructive systems. <i>Energy and Buildings</i> , <b>2014</b> , 68, 1-6	7	14
66	Modeling phase change materials behavior in building applications: Comments on material characterization and model validation. <i>Renewable Energy</i> , <b>2014</b> , 61, 132-135	8.1	60
65	Life cycle assessment of a ventilated facade with PCM in its air chamber. <i>Solar Energy</i> , <b>2014</b> , 104, 115-1	<b>23</b> .8	42
64	Stability of sugar alcohols as PCM for thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , <b>2014</b> , 126, 125-134	6.4	143
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60	Physicochemical and Thermal Study of a MPCM of PMMA Shell and Paraffin Wax as a Core. <i>Energy Procedia</i> , <b>2014</b> , 48, 347-354	2.3	17
59	Investigating greenhouse challenge from growing trends of electricity consumption through home appliances in buildings. <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 36, 188-193	16.2	44
58	New Database on Phase Change Materials for Thermal Energy Storage in Buildings to Help PCM Selection. <i>Energy Procedia</i> , <b>2014</b> , 57, 2408-2415	2.3	26
57	Thermophysical Characterization of Sorption TCM. Energy Procedia, 2014, 48, 273-279	2.3	8
56	Corrosion of metal and metal alloy containers in contact with phase change materials (PCM) for potential heating and cooling applications. <i>Applied Energy</i> , <b>2014</b> , 125, 238-245	10.7	74
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54	Service life of the dwelling stock in Spain. International Journal of Life Cycle Assessment, 2013, 18, 919-9	<b>92</b> 56	19
53	Intercomparative tests on phase change materials characterisation with differential scanning calorimeter. <i>Applied Energy</i> , <b>2013</b> , 109, 415-420	10.7	104
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50	Improvement of the thermal inertia of building materials incorporating PCM. Evaluation in the macroscale. <i>Applied Energy</i> , <b>2013</b> , 109, 428-432	10.7	62
49	Development and characterization of new shape-stabilized phase change material (PCM) <b>P</b> olymer including electrical arc furnace dust (EAFD), for acoustic and thermal comfort in buildings. <i>Energy and Buildings</i> , <b>2013</b> , 61, 210-214	7	39
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44	Review of the T-history method to determine thermophysical properties of phase change materials (PCM). <i>Renewable and Sustainable Energy Reviews</i> , <b>2013</b> , 26, 425-436	16.2	113
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42	A correlation of the convective heat transfer coefficient between an air flow and a phase change material plate. <i>Applied Thermal Engineering</i> , <b>2013</b> , 51, 1245-1254	5.8	13
41	Life Cycle Assessment of experimental cubicles including PCM manufactured from natural resources (esters): A theoretical study. <i>Renewable Energy</i> , <b>2013</b> , 51, 398-403	8.1	49
40	Life Cycle Assessment of alveolar brick construction system incorporating phase change materials (PCMs). <i>Applied Energy</i> , <b>2013</b> , 101, 600-608	10.7	58
39	Corrosion of metal and polymer containers for use in PCM cold storage. <i>Applied Energy</i> , <b>2013</b> , 109, 449-	-4 <b>53</b> .7	59
38	Physico-chemical and mechanical properties of microencapsulated phase change material. <i>Applied Energy</i> , <b>2013</b> , 109, 441-448	10.7	58
37	Comparison of three different devices available in Spain to test thermal properties of building materials including phase change materials. <i>Applied Energy</i> , <b>2013</b> , 109, 421-427	10.7	55
36	Experimental study on the selection of phase change materials for low temperature applications. <i>Renewable Energy</i> , <b>2013</b> , 57, 130-136	8.1	37
35	Requirements to consider when choosing a thermochemical material for solar energy storage. <i>Solar Energy</i> , <b>2013</b> , 97, 398-404	6.8	39
34	Study on differential scanning calorimetry analysis with two operation modes and organic and inorganic phase change material (PCM). <i>Thermochimica Acta</i> , <b>2013</b> , 553, 23-26	2.9	103
33	Material selection and testing for thermal energy storage in solar cooling. <i>Renewable Energy</i> , <b>2013</b> , 57, 366-371	8.1	59
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31	Low carbon and low embodied energy materials in buildings: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2013</b> , 23, 536-542	16.2	201
30	Phase-Change Materials Use in Nearly Zero Energy Building Refurbishment <b>2013</b> , 537-553		1
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28	Review of Solar Thermal Storage Techniques and Associated Heat Transfer Technologies. <i>Proceedings of the IEEE</i> , <b>2012</b> , 100, 525-538	14.3	60
27	Thermal analysis of a low temperature storage unit using phase change materials without refrigeration system. <i>International Journal of Refrigeration</i> , <b>2012</b> , 35, 1709-1714	3.8	59
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24	Stabilized rammed earth incorporating PCM: Optimization and improvement of thermal properties and Life Cycle Assessment. <i>Energy Procedia</i> , <b>2012</b> , 30, 461-470	2.3	21
23	Thermal Energy Storage Implementation Using Phase Change Materials for Solar Cooling and Refrigeration Applications. <i>Energy Procedia</i> , <b>2012</b> , 30, 947-956	2.3	35
22	Solar Absorption in a Ventilated Facade with PCM. Experimental Results. <i>Energy Procedia</i> , <b>2012</b> , 30, 986	5- <b>9</b> 94	13
21	Evaluation of the environmental impact of experimental cubicles using Life Cycle Assessment: A highlight on the manufacturing phase. <i>Applied Energy</i> , <b>2012</b> , 92, 534-544	10.7	54
20	New methodology developed for the differential scanning calorimetry analysis of polymeric matrixes incorporating phase change materials. <i>Measurement Science and Technology</i> , <b>2012</b> , 23, 085606	2	20
19	New equipment for testing steady and transient thermal performance of multilayered building envelopes with PCM. <i>Energy and Buildings</i> , <b>2011</b> , 43, 3704-3709	7	29
18	Overview of thermal energy storage (TES) potential energy savings and climate change mitigation in Spain and Europe. <i>Applied Energy</i> , <b>2011</b> , 88, 2764-2774	10.7	129
17	Materials used as PCM in thermal energy storage in buildings: A review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2011</b> , 15, 1675-1695	16.2	1068
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10	Modelization of a water tank including a PCM module. <i>Applied Thermal Engineering</i> , <b>2006</b> , 26, 1328-133	<b>3</b> 5.8	85
9	Improvement of a thermal energy storage using plates with paraffingraphite composite.  International Journal of Heat and Mass Transfer, 2005, 48, 2561-2570	4.9	152
8	Free-cooling of buildings with phase change materials. <i>International Journal of Refrigeration</i> , <b>2004</b> , 27, 839-849	3.8	241
7	Review on thermal energy storage with phase change: materials, heat transfer analysis and applications. <i>Applied Thermal Engineering</i> , <b>2003</b> , 23, 251-283	5.8	3139

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4	Assessment of Solid Wastes and By-Products as Solid Particle Materials for Concentrated Solar Power Plants. <i>Solar Rrl</i> ,2100884	7.1	
3	New shape-stabilized phase change materials obtained by single-screw extruder. <i>Energy Storage</i> ,e268	2.8	O
2	Characterisation of commercial phase change materials with potential application in gypsum boards for buildings. <i>International Journal of Energy Research</i> ,	4.5	1
1	Experimental study and comparison of different fully transparent laminated glass beam designs. <i>Glass Structures and Engineering</i> ,1	1.4	