

# A review of salt hydrates for seasonal heat storage in do

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Elucidating water dynamics in MgCl <sub>2</sub> hydrates from molecular dynamics simulation. <i>Solid State Sciences</i> , 2017, 69, 64-70.	1.5	11
3	Analysis of resorption working pairs for air conditioners of electric vehicles. <i>Applied Energy</i> , 2017, 207, 594-603.	5.1	15
4	Thermodynamic properties of SrCl <sub>2</sub> (aq) from 252 K to 524 K and phase equilibria in the SrCl <sub>2</sub> -H <sub>2</sub> O system: Implications for thermochemical heat storage. <i>Journal of Chemical Thermodynamics</i> , 2018, 120, 106-115.	1.0	47
5	Computational Screening of Hydration Reactions for Thermal Energy Storage: New Materials and Design Rules. <i>Chemistry of Materials</i> , 2018, 30, 2006-2017.	3.2	45
6	Design and functionality of a segmented heat-storage prototype utilizing stable supercooling of sodium acetate trihydrate in a solar heating system. <i>Applied Energy</i> , 2018, 221, 522-534.	5.1	58
7	Heterogeneous Kinetic Features of the Overlapping Thermal Dehydration and Melting of Thermal Energy Storage Material: Sodium Thiosulfate Pentahydrate. <i>Journal of Physical Chemistry C</i> , 2018, 122, 8480-8490.	1.5	18
8	In-depth investigation of thermochemical performance in a heat battery: Cyclic analysis of K <sub>2</sub> CO <sub>3</sub> , MgCl <sub>2</sub> and Na <sub>2</sub> S. <i>Applied Energy</i> , 2018, 215, 159-173.	5.1	73
9	Numerical and experimental analysis of a novel heat pump driven sorption storage heater. <i>Applied Energy</i> , 2018, 211, 954-974.	5.1	39
10	Characterization of microencapsulated and impregnated porous host materials based on calcium chloride for thermochemical energy storage. <i>Applied Energy</i> , 2018, 212, 1165-1177.	5.1	87
11	High Carnallite-Bearing Material for Thermochemical Energy Storage: Thermophysical Characterization. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 6135-6145.	3.2	11
12	Thermodynamic properties of CuSO <sub>4</sub> (aq) from 268 K to 377 K and phase equilibria in the CuSO <sub>4</sub> -H <sub>2</sub> O system. <i>Monatshefte für Chemie</i> , 2018, 149, 369-379.	0.9	11
13	Trouton's Rule for Vapor Sorption in Solids. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 638.	1.3	2
14	Preparation and Characterization of Expanded Clay-Paraffin Wax-Geo-Polymer Composite Material. <i>Materials</i> , 2018, 11, 2191.	1.3	14
15	Performances and modelling of a circular moving bed thermochemical reactor for seasonal storage. <i>Applied Energy</i> , 2018, 230, 803-815.	5.1	30
16	Discharge performance of blended salt in matrix materials for low enthalpy thermochemical storage. <i>Applied Thermal Engineering</i> , 2018, 145, 483-493.	3.0	12
17	MgSO <sub>4</sub> ·7H <sub>2</sub> O filled macro cellular foams: An innovative composite sorbent for thermo-chemical energy storage applications for solar buildings. <i>Solar Energy</i> , 2018, 173, 1278-1286.	2.9	52
18	Alginate-Derived Salt/Polymer Composites for Thermochemical Heat Storage. <i>Advanced Sustainable Systems</i> , 2018, 2, 1700160.	2.7	22
19	Design and optimization of a hybrid air conditioning system with thermal energy storage using phase change composite. <i>Energy Conversion and Management</i> , 2018, 169, 404-418.	4.4	60

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22	Homogeneous Metal Salt Solutions for Biomass Upgrading and Other Select Organic Reactions. <i>ACS Catalysis</i> , 2019, 9, 9923-9952.	5.5	65
23	Transfer of chemical elements in vapor-gas streams at the dehydration of secondary sulfates. <i>E3S Web of Conferences</i> , 2019, 98, 05004.	0.2	1
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25	Numerical Study for Open Reactor Design Using Salt Hydrate. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 322, 012021.	0.2	5
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27	Defect-driven water migration in MgCl <sub>2</sub> tetra- and hexahydrates. <i>Journal of Solid State Chemistry</i> , 2019, 277, 221-228.	1.4	5
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33	Hydrated Salt/Graphite/Polyelectrolyte Organic-Inorganic Hybrids for Efficient Thermochemical Storage. <i>Nanomaterials</i> , 2019, 9, 420.	1.9	24
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35	A systematic screening approach for new materials for thermochemical energy storage and conversion based on the Strunz mineral classification system. <i>Thermochimica Acta</i> , 2019, 674, 82-94.	1.2	18
36	Understanding the Hydration Process of Salts: The Impact of a Nucleation Barrier. <i>Crystal Growth and Design</i> , 2019, 19, 2279-2288.	1.4	57
37	Introduction to the Application of Phase Change Materials under Tropical Climate of Panama. , 2019, , .		2

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