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Long-term heat-storage ceramics absorbing thermal energy from hot water

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#	Paper	IF	Citations
20	Phase change material-integrated latent heat storage systems for sustainable energy solutions. <i>Energy and Environmental Science</i> ,	35.4	32
19	Preparing high purity $\text{Ti}_3\text{O}_5$ and $\text{Li}/\text{Ti}_3\text{O}_5$ as high-performance electromagnetic wave absorbers. <i>Journal of Materials Chemistry C</i> ,	7.1	2
18	Silica-based ceramics toward electromagnetic microwave absorption. <i>Journal of the European Ceramic Society</i> , <b>2021</b> , 41, 7381-7381	6	13
17	Prediction of a Tensile Force Induced Structural Phase Transition from $\text{Ti}_3\text{O}_5$ to $\text{Ti}_2\text{O}_3$ by Molecular Dynamic Simulations. <i>European Journal of Inorganic Chemistry</i> , e202101037	2.3	1
16	Decarbonizing the ceramics industry: A systematic and critical review of policy options, developments and sociotechnical systems. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 157, 112081	16.2	2
15	Evaluating cascaded and tunable phase change materials for enhanced thermal energy storage utilization and effectiveness in building envelopes. <i>Energy and Buildings</i> , <b>2022</b> , 111937	7	0
14	Progress in $\text{Ti}_3\text{O}_5$ : Synthesis, properties and applications. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2021</b> , 31, 3310-3327	3.3	0
13	Latent Heat Thermal Storage of Solid-State Phase Transition in Thermally Stabilized Hexagonal $\text{FeS}$ . <i>SSRN Electronic Journal</i> ,	1	
12	Pressure effect on long-term heat storage ceramics based on Mg-substituted $\text{Ti}_3\text{O}_5$ . <i>Materials Advances</i> ,	3.3	
11	Latent Heat Thermal Storage of Solid-State Phase Transition in Thermally Stabilized Hexagonal $\text{FeS}$ . <i>SSRN Electronic Journal</i> ,	1	
10	First-Principles Investigation of Electronic Properties and Phase Transition of $\text{Ti}_3\text{O}_5$ . <i>Journal of Physical Chemistry C</i> , <b>2022</b> , 126, 7809-7817	3.8	
9	Nucleation mechanisms of titanium oxide particles at high temperature based on cluster-assisted nucleation. <i>Journal of Materials Research and Technology</i> , <b>2022</b> ,	5.5	
8	Emerging Solid-to-solid Phase Change Materials for Thermal Energy Harvesting, Storage and Utilization. <i>Advanced Materials</i> , 2202457	24	4
7	Geometric Phase and Localized Heat Diffusion. <i>Advanced Materials</i> , 2202241	24	1
6	Experimental demonstration of thermal cloaking metastructures designed by topology optimization. <i>International Journal of Heat and Mass Transfer</i> , <b>2022</b> , 194, 123093	4.9	0
5	An overview on the use of additives and preparation procedure in phase change materials for thermal energy storage with a focus on long term applications. <i>Journal of Energy Storage</i> , <b>2022</b> , 53, 105140	7.8	0
4	Latent heat thermal storage of solid-state phase transition in thermally stabilized hexagonal $\text{FeS}$ . <b>2023</b> , 225, 115166		0

- 3 Ultrastrong and damage-tolerant ceramic architectures via 3D printing. **2023**, 61, 103361
- 2 Ultrafast Dynamic Terahertz Response of Ti2O3 Film during Photoinduced Metal-Insulator Transition. **2022**, 126, 20491-20497
- 1 Thermal batteries based on inverse barocaloric effects. **2023**, 9,