Fig. S1 Sample color of the sample obtained after milling at MRVP 30:1 for 3h.
Fig. S2 V2p XPS profiles of 30:1 with varying etching time
Fig. S3 V2p XPS profiles of VO2 with varying etching time
Fig. S4 TG-DTA profiles of the first and second cycles of commercial VO$_2$ for the temperature spans, 50 $^\circ$C~200 $^\circ$C (a and b) and 50 $^\circ$C~500 $^\circ$C (c and d).
Fig. S5 X-ray diffractogram of commercial heat storage material, Smartec HS 70 compared with other VO\textsubscript{2} and V\textsubscript{2}O\textsubscript{5} samples
Fig. S6 DSC profiles of the milling time, 3h, with varying $\text{V}_2\text{O}_5$:HC ratio 30:1, compared with commercial VO2 and heat storage material Smartec HS 70.