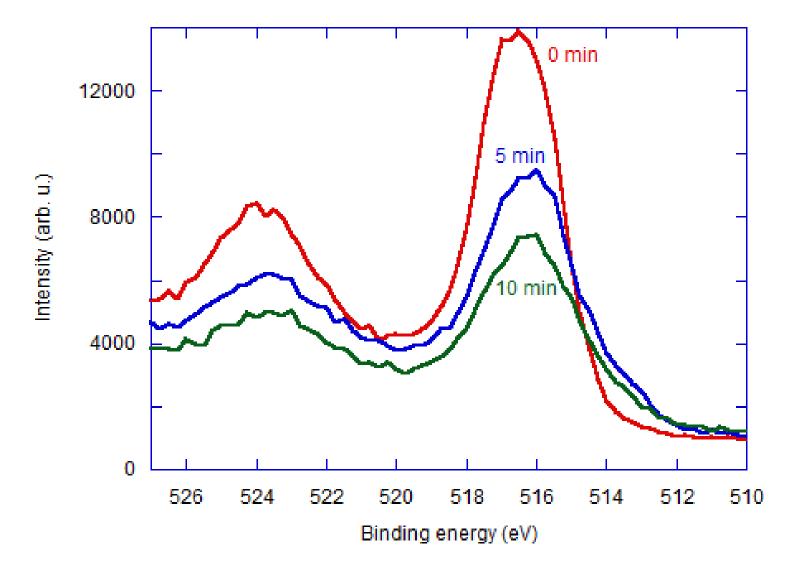
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Fig. S1 Sample color of the sample obtained after milling at MRVP 30:1 for 3h.



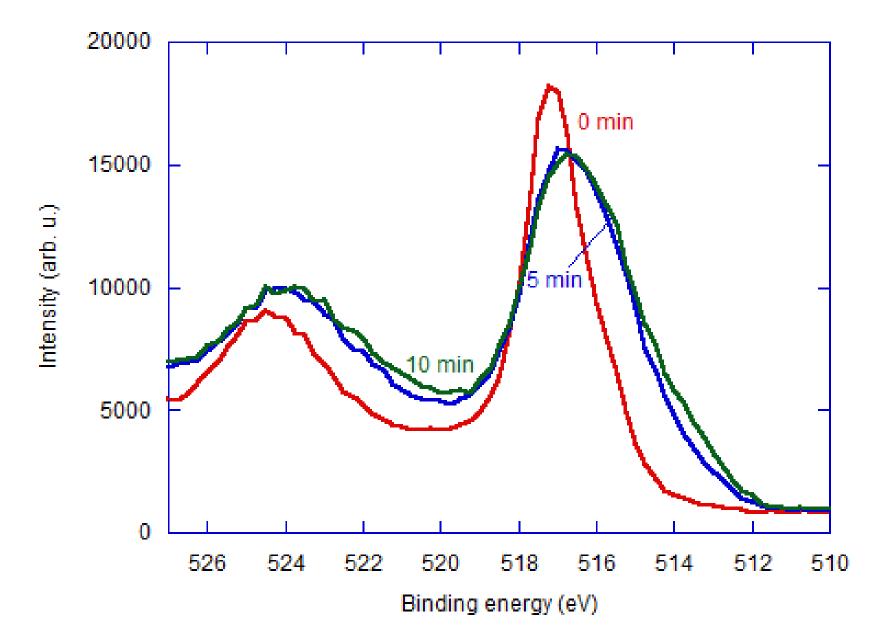


Fig. S3 V2p XPS profiles of VO2 with varying etching time

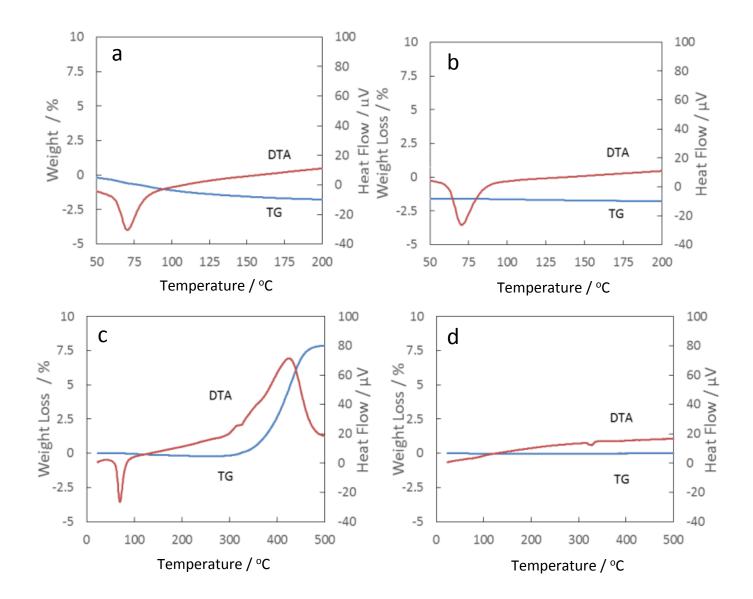


Fig. S4 TG-DTA profiles of the first and second cycles of commercial VO₂ for the temperature spans, 50 °C~200 °C (a and b) and 50 °C~500 °C (c and d).

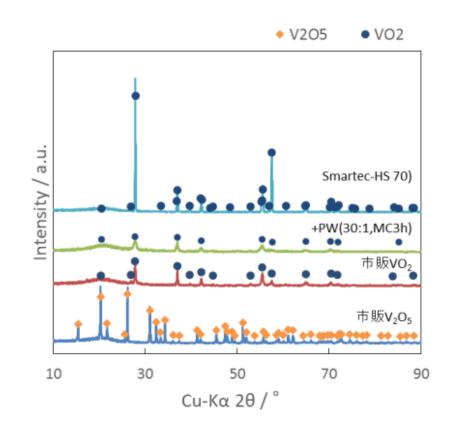


Fig. S5 X-ray diffractogram of commercial heat storage material, Smartec HS 70 compared with other VO₂ and V₂O₅ samples

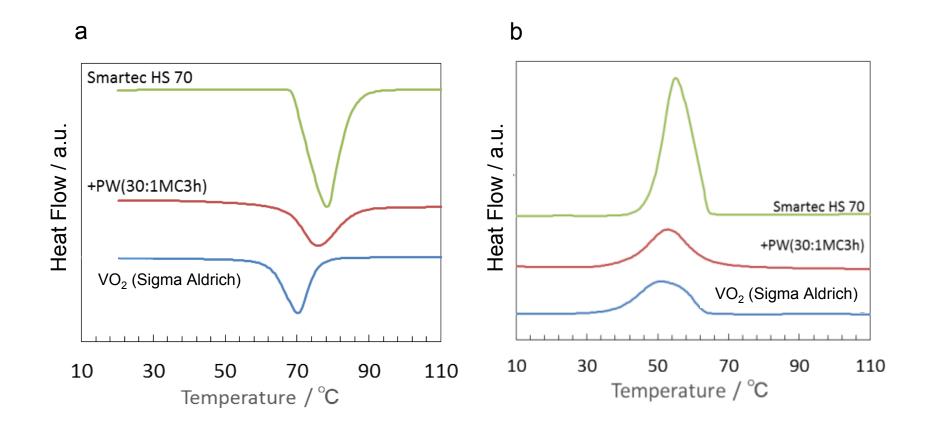


Fig. S6 DSC profiles of the milling time, 3h, with varying V_2O_5 :HC ratio 30:1, compared with commercial VO2 and heat storage material Smartec HS 70