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Supporting Information

Novel Material for Hydrogen Production and CO_2 Capture, Incorporating Polymorphic Spacers

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Table S1. Tammann temperatures ($\boldsymbol{T}_{\mathbf{Tammann}} \approx 0.5\ \boldsymbol{T}_{\mathbf{melting}}$, referring to the temperatures where sintering occurs)

Oxides	$T_{Tammann}$ (°C)	Mineral derivetives	$T_{Tammann}$ (°C)
CaO	1170	$CaCO_3$	533
Al_2O_3	900	$Ca_{12}Al_{14}O_{33}$	725
ZrO_2	1221	$CaZrO_3$	1036
TiO_2	785	$CaTiO_3$	851
SiO_2	664	Ca_2SiO_4	929

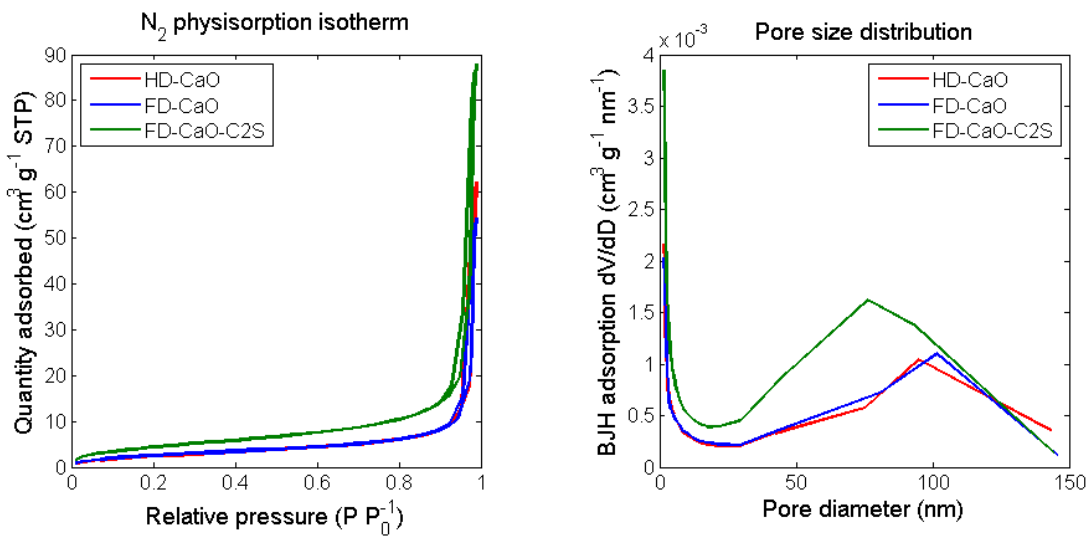

Figure S1. N_2 physisorption results