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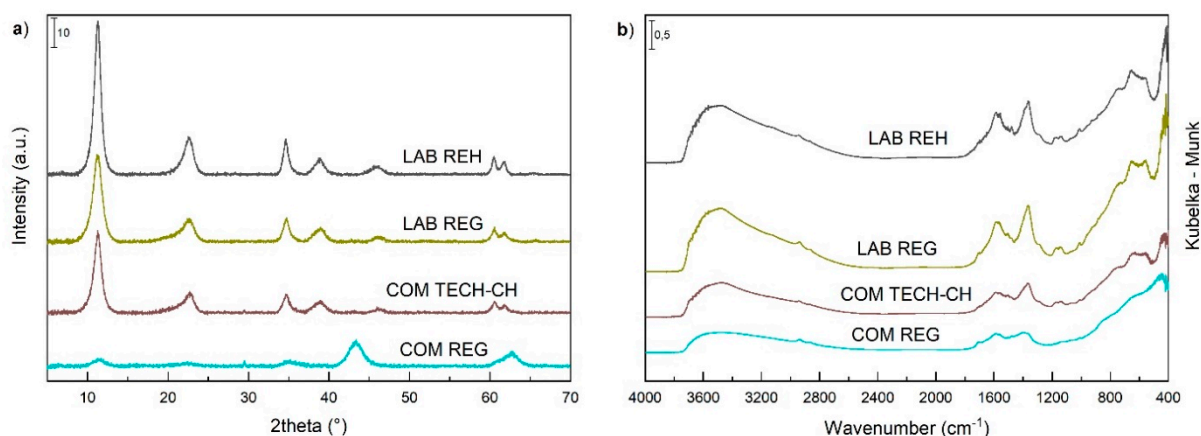


Figure S1: XRD and DRIFT spectra of used catalysts

Table S1: Diffraction and phase properties of the used catalysts

Sample	LDH crystallite size D (nm)		LDH D value (Å)	Relative content of crystalline phases (%)	
	HTC	MgO		HTC	MgO
Test No. 1	88.2	-	7.85	100.0	0.0
Test No. 2	63.6	-	7.85	100.0	0.0
Test No. 3	77.3	-	7.83	100.0	0.0
Test No. 4	61.1	46.5	7.74	29.4	70.6

Table S2: Textural properties of used catalysts

Sample	Specific surface area (BET) (m ² /g)	Total pore volume (cm ³ /g)	Micropore volume (cm ³ /g)	Mesopore volume (cm ³ /g)
Test No. 1	79.5	0.288	0.000	0.246
Test No. 2	57.7	0.204	0.000	0.168
Test No. 3	100.1	0.254	0.000	0.214
Test No. 4	72.3	0.205	0.000	0.174

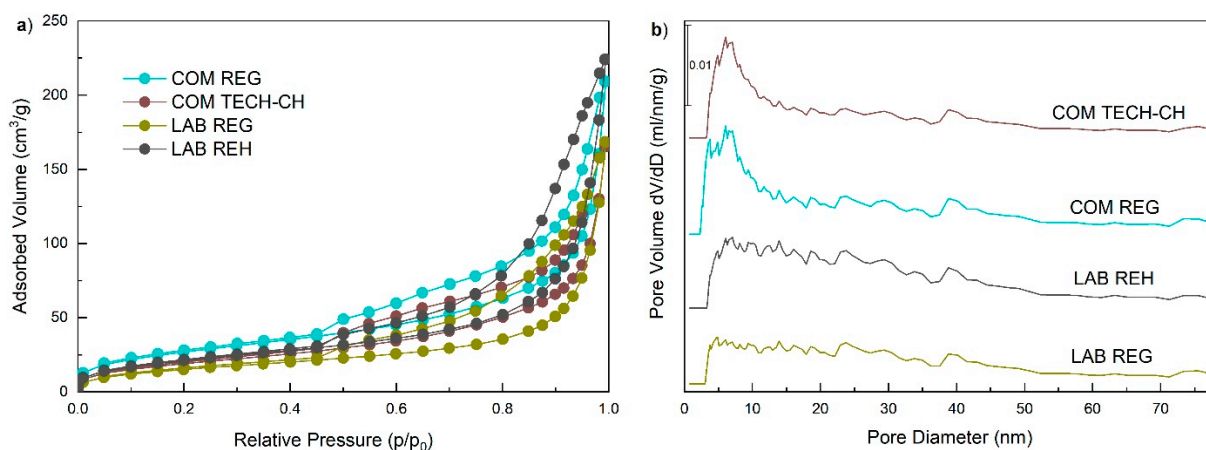


Figure S2: N₂ physisorption isotherms (a) and pore distribution (b) of used catalysts