

Table S1 comparison of the catalytic performance of HTC-5La with other reference catalysts for the DMC synthesis.

Catalyst	Starting feed	Urea or MC conversion (%)	DMC selectivity (%)	DMC yield (%)	NMMC yield (%)	Reference
ZnCl ₂	MC + methanol	50.9	66.0	33.6	9.1	[28]
LaCl ₃	MC + methanol	84.8	63.3	53.7	14.1	[29]
ZnO	Urea + methanol	100.0	29.0	29.0	14.6	[19]
ZnO	MC + methanol	7.1	5.4	3.8	0	[24]
CaO	MC + methanol	44.3	39.5	17.5	Not provided	[12]
Fe ₂ O ₃ /HMCM-49	Urea + methanol	34.2	97.4	33.3	Not provided	[18]
Zn/Al mixed oxide	Urea + methanol	Not provided	Not provided	36.5	Not provided	[22]
Zn/Fe mixed oxide	MC + methanol	46.1	66.6	30.7	7.1	[30]
ZnO-CeO ₂ -La ₂ O ₃	Urea + methanol	100.0	50.4	50.4	6.7	[23]