

Supplementary Materials: Preparation and Study of the Antibacterial Applications and Oxidative Stress Induction of Copper Maleamate-Functionalized Mesoporous Silica Nanoparticles

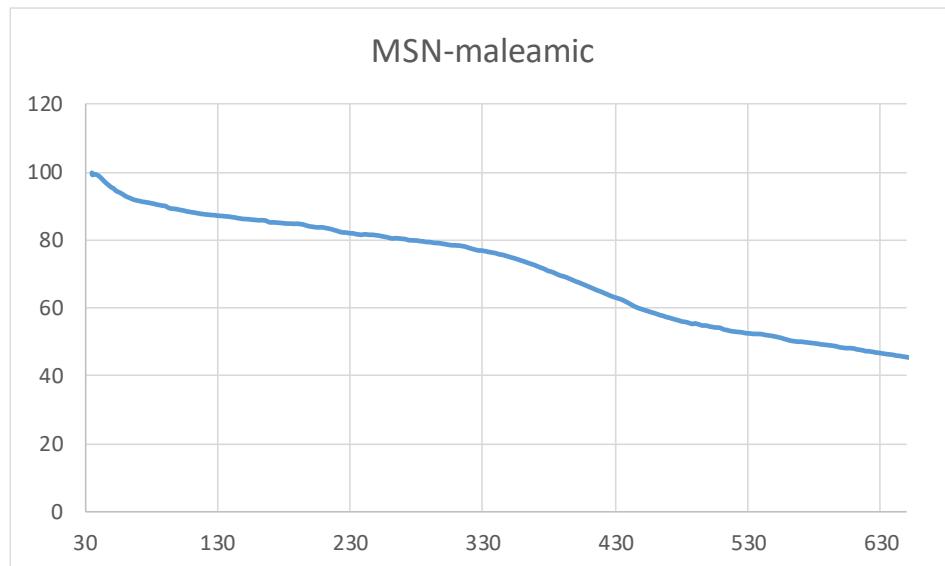


Figure S1. TG of MSN-maleamic.

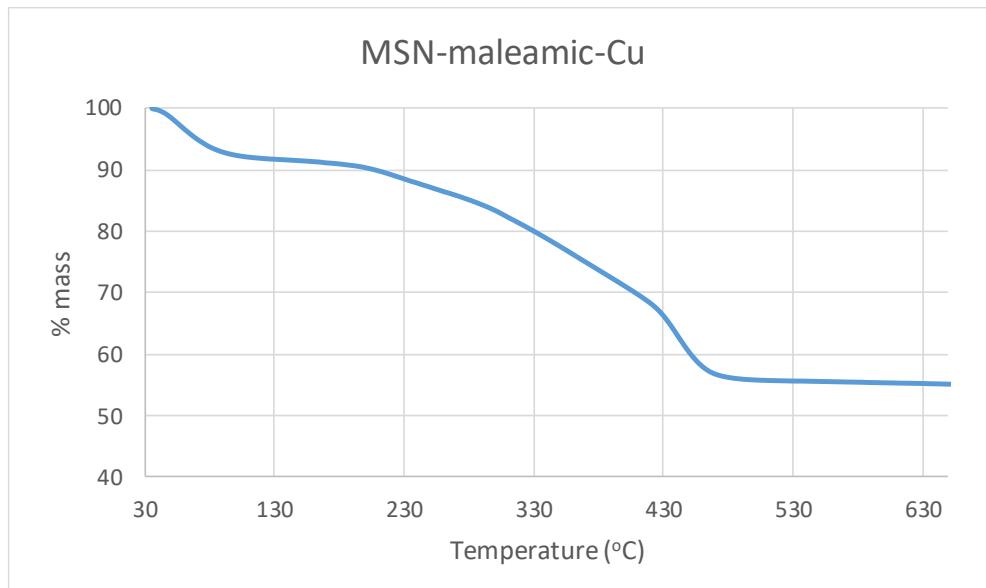


Figure S2. TG of MSN-maleamic-Cu.

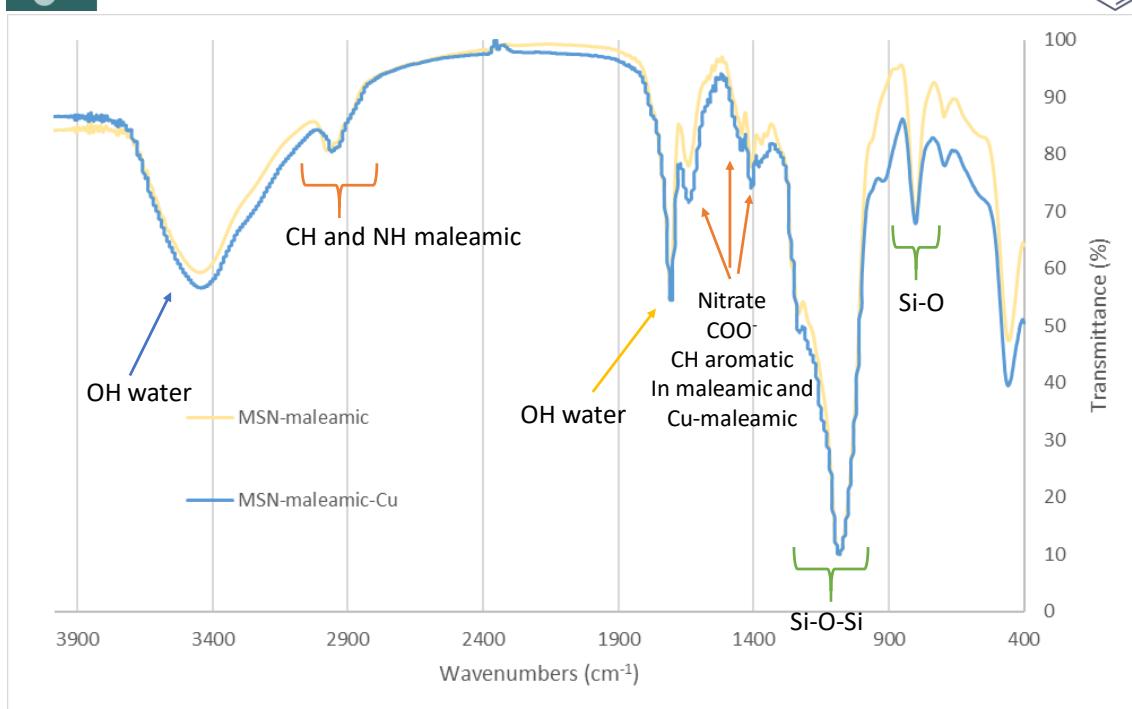


Figure S3. FT-IR spectra of MSN-maleamic and MSN-maleamic-Cu.

Table S1. TON, TOF, selectivity to benzaldehyde or benzyl benzoate in the oxidation of benzyl alcohol catalyzed by MSN-maleamic-Cu with different H₂O₂ quantities.^a

Material	Benzaldehyde			Benzyl benzoate			Time (h)
	TON	TOF (h ⁻¹)	Selectivity (%)	TON	TOF (h ⁻¹)	Selectivity (%)	
MSN-maleamic-Cu (1.5 mL H ₂ O ₂)	1.33	0.06	67.19	0.65	0.03	32.81	6
MSN-maleamic-Cu (1.0 mL H ₂ O ₂)	1.15	0.19	70.34	0.49	0.08	29.66	24
MSN-maleamic-Cu (0.25 mL H ₂ O ₂)	1.25	0.21	73.36	0.46	0.08	26.64	6
MSN-maleamic-Cu (0.25 mL H ₂ O ₂)	1.14	0.05	61.13	0.73	0.03	38.87	24
MSN-maleamic-Cu (0.25 mL H ₂ O ₂)	1.13±0.03	0.19±0	91.73±0.27	0.10±0.007	0.02±0.001	8.27±0.27	6
MSN-maleamic-Cu (0.25 mL H ₂ O ₂)	1.03±0.20	0.04±0.01	90.85±1.64	0.10±0.007	0.02±0.001	9.15±1.64	24

^a The results without SD correspond to the mean of a unique set of two experiments.