

Supporting Information

Citric acid tunes the formation of antimicrobial melanin-like nanostructures

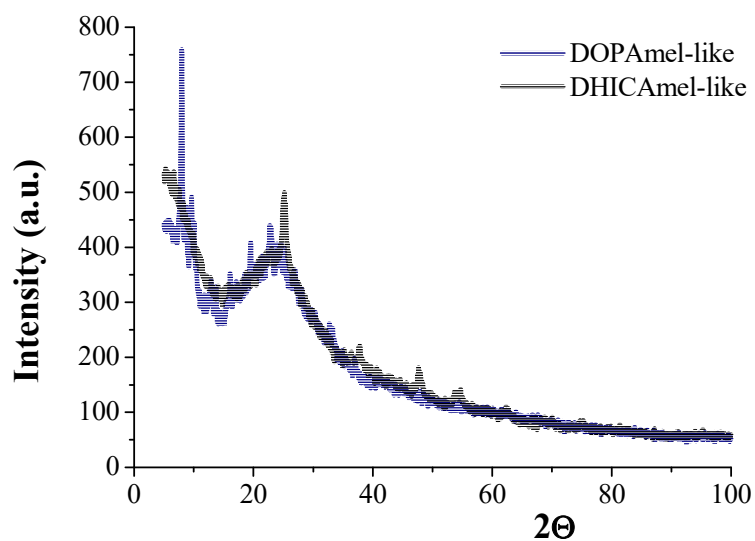


Figure S1. XRD profiles of DOPAmel-like and DHICAmel-like nanostructures.

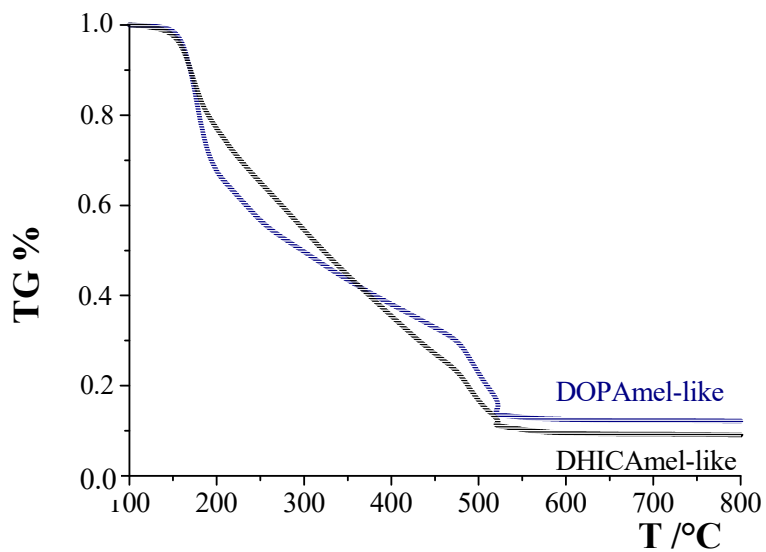


Figure S2. TGA diagrams of DOPAmel-like and DHICAmel-like nanostructures.

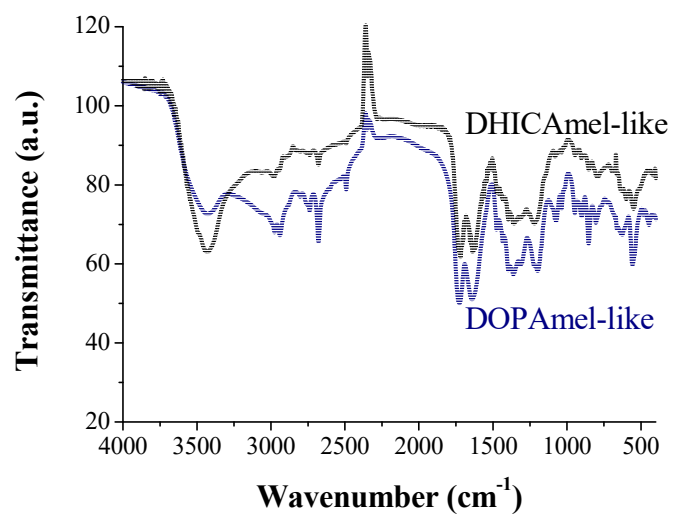


Figure S3. FTIR spectra of DOPAmel-like and DHICAmel-like nanostructures.

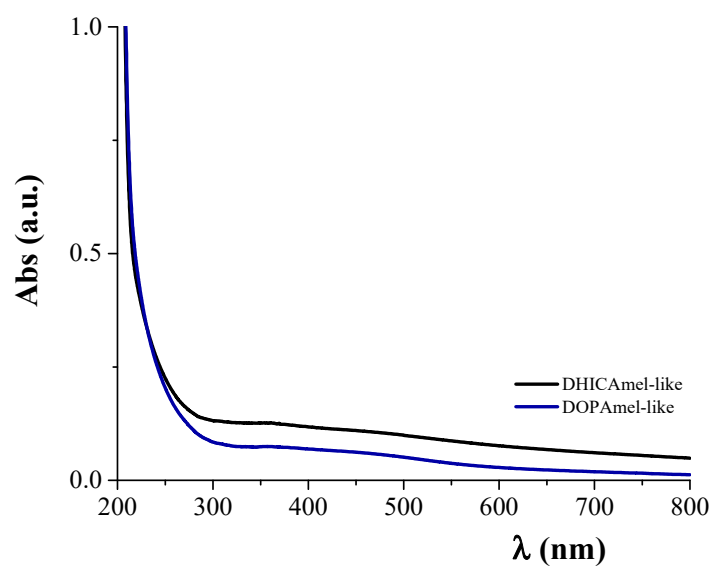


Figure S4. UV-vis spectra obtained after dissolution of DOPAmel-like and DHICAmel-like nanostructures in alkaline media.

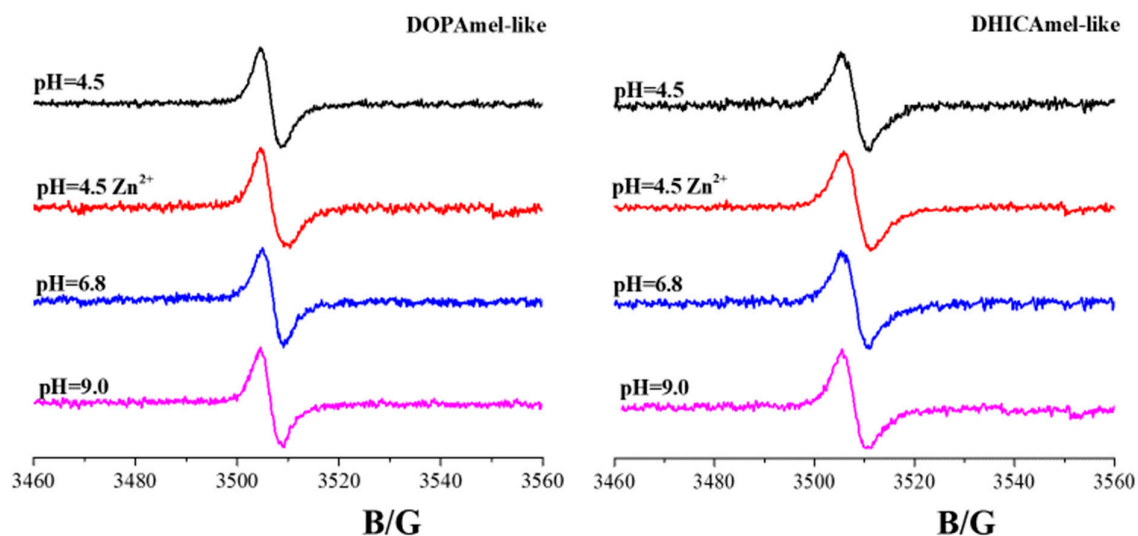


Figure S5. EPR spectra of DOPAmel-like and DHICAmel-like nanostructures at different conditions.

Samples	<i>g</i> -factor (± 0.0003 G)	ΔB (± 0.2 G)	Spin-density $\times 10^{19}$ spin/g (Err. $\pm 10\%$)
DOPAmel-like	2.0030	4.2	0.065
DOPAmel-like pH=4.5	2.0030	4.4	0.013
DOPAmel-like pH=4.5 (Zn ²⁺)	2.0035	5.2	0.059
DOPAmel-like pH=6.8	2.0027	4.1	0.024
DOPAmel-like pH=9.0	2.0027	4.2	0.037
DHICAmel-like	2.0032	4.9	1.200
DHICAmel-like pH=4.5	2.0027	5.2	1.010
DHICAmel-like pH=4.5 (Zn ²⁺)	2.0029	5.7	1.350
DHICAmel-like pH=6.8	2.0028	5.3	1.105
DHICAmel-like pH=9.0	2.0027	5.2	1.215

Table S1. Spectral parameters of EPR spectra of DOPAmel-like and DHICAmel-like nanostructures at different conditions.