

Multifunctional ZnO/wood fiber composites with antibacterial emulsion separation and dye self-cleaning

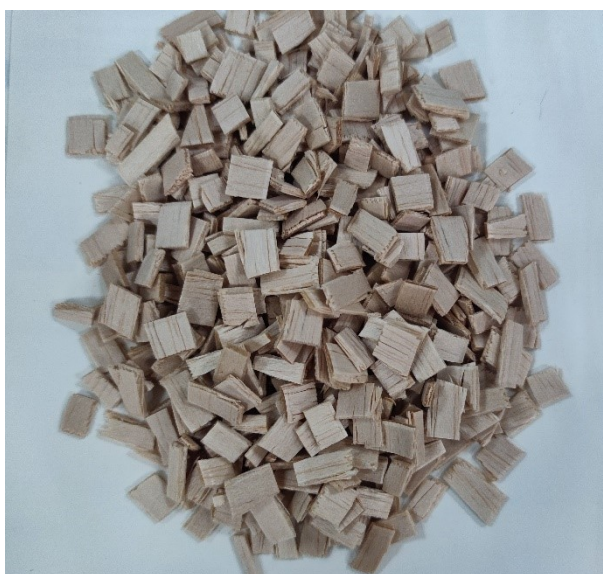
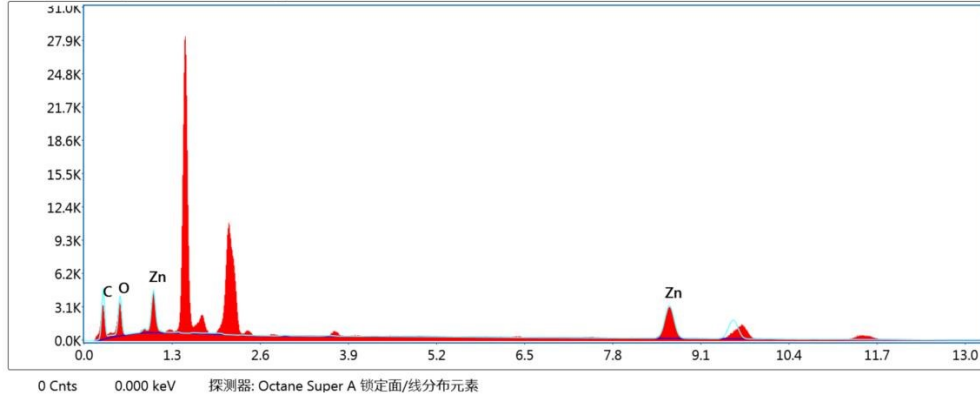


Fig. S1 Balsa wood cut into pieces

kV: 20 放大倍率: 1000 取出 40 活时间(s): 129.8 时间常数(μ s): 3.84 分辨率:(eV) 129.6

Sum Spectrum

EDS Spectrum: map202306201154113490.spc



智能定量结果

元素	重量百分比	原子百分比	净强度	错误%	Kratio	Z	A	F
C K	37.53	64.88	192.92	9.54	0.0948	1.1366	0.2222	1.0000
O K	15.58	20.22	173.52	9.75	0.0359	1.0920	0.2110	1.0000
ZnK	46.89	14.90	395.49	2.37	0.3892	0.8146	1.0093	1.0098

Fig. S2 General EDS energy spectrum of ZnO/WF

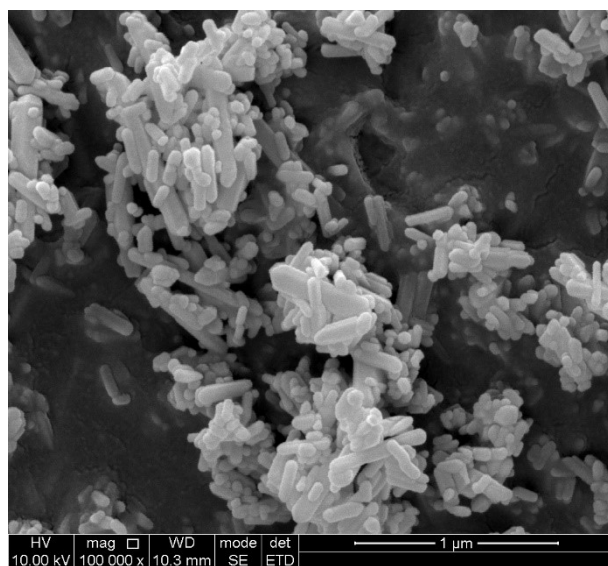


Fig. S3 SEM of ZnO

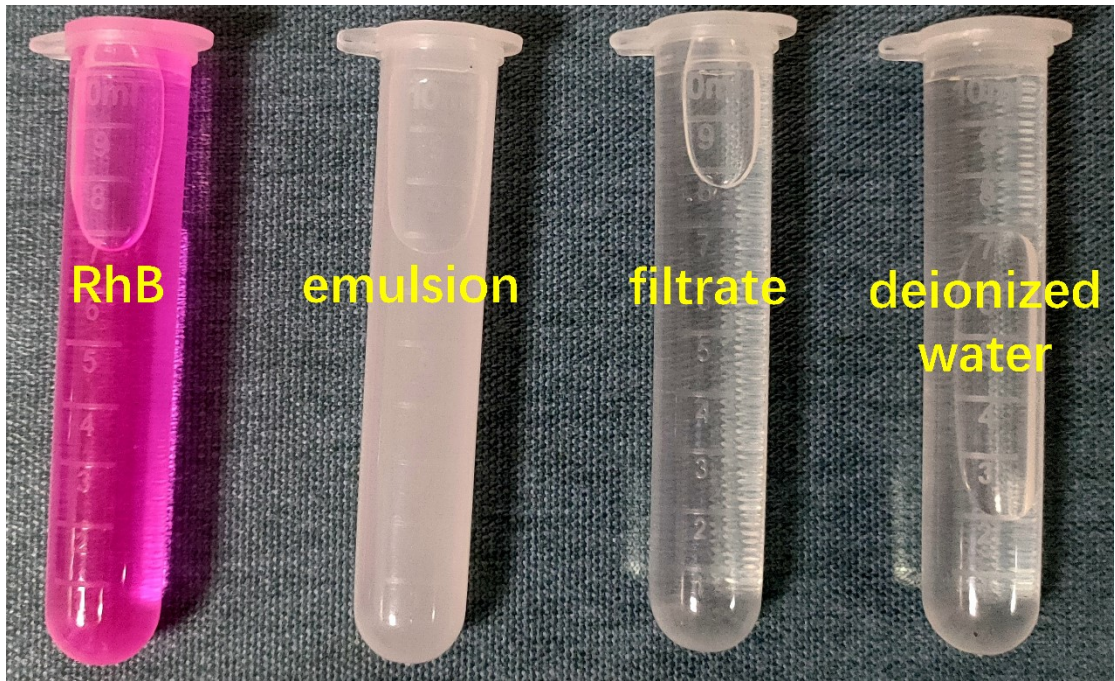


Fig. S4 emulsion, RhB, filtrate, deionized water

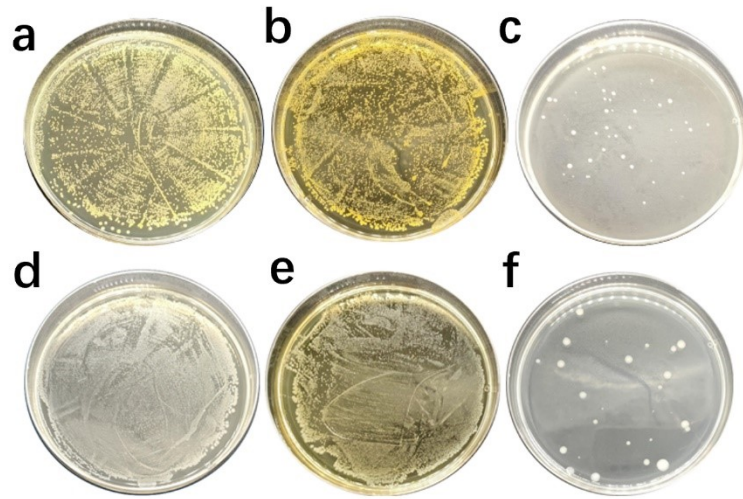


Fig. S5 Antibacterial rates of samples co-cultured with bacteria for 24 h: (a) wood fibers with *S. aureus*; (b) ZnO/WF with *S. aureus*; (c) wood fibers with *E. coli*; (d) ZnO/WF with *E. coli*.