

Design of BODIPY functional ZIF-90 towards enhanced visible-light driven
antibacterial performance

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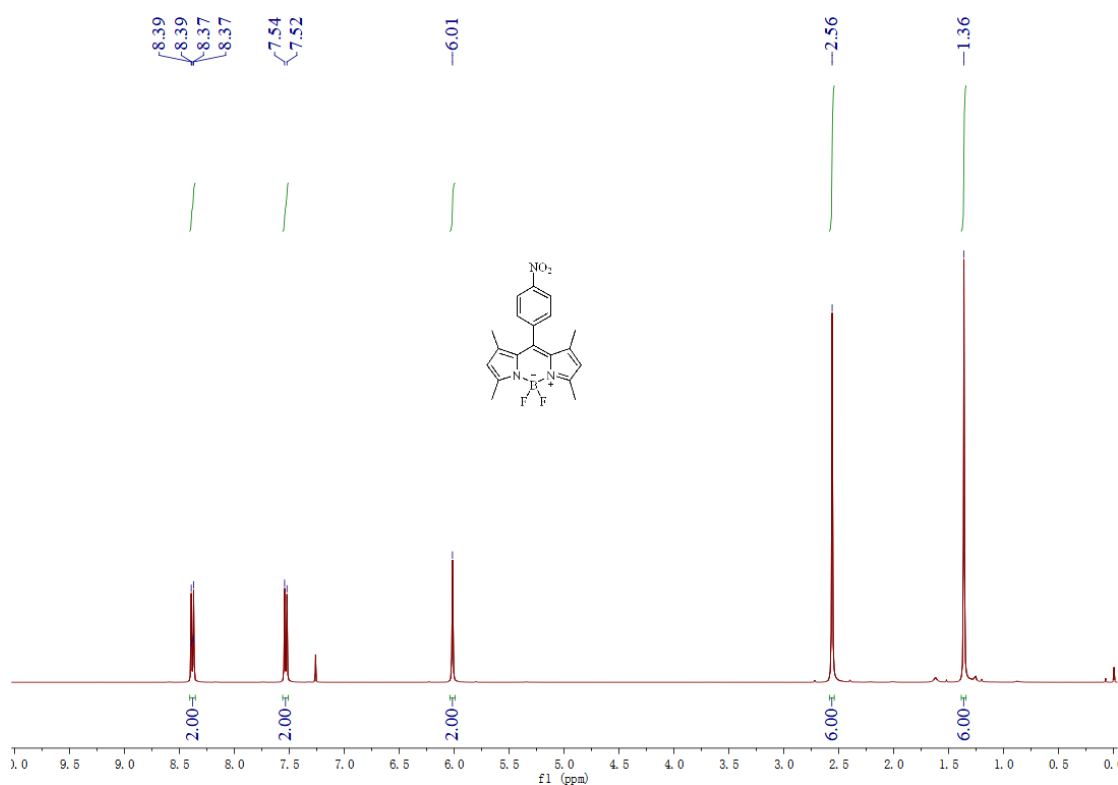


Fig S1 ¹H NMR spectra of NO₂-BODIPY in chloroform (CDCl₃).

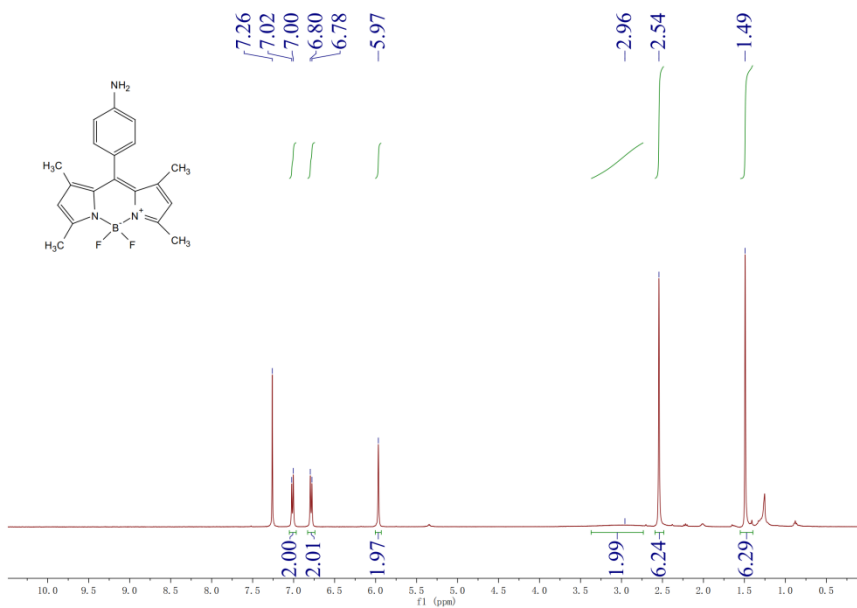


Fig S2 ^1H NMR spectra of $\text{NH}_2\text{-BODIPY}$ in chloroform (CDCl_3).

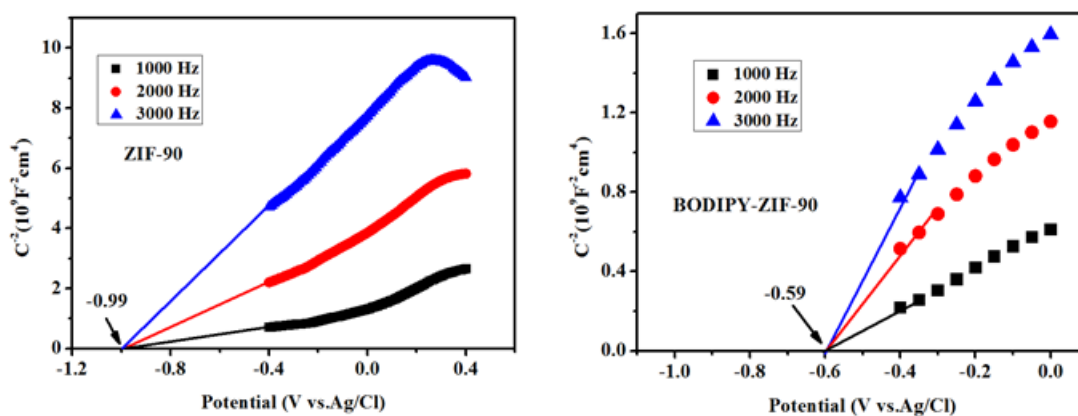


Fig S3 Mott-Schottky plots of ZIF-90 (left) and BODIPY-ZIF-90 (right) at three frequencies (1000 Hz, 2000 Hz and 3000 Hz).

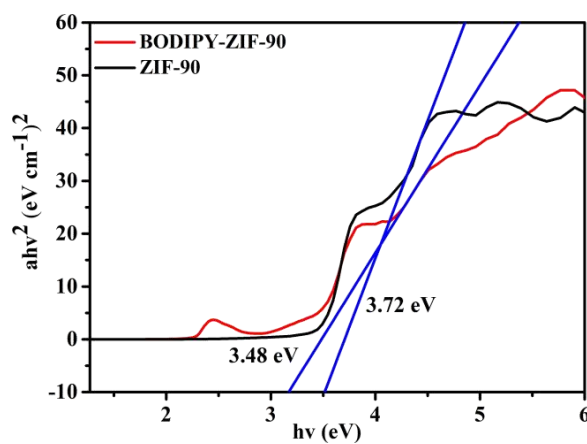


Fig S4 The optical bandgaps of ZIF-90 and BODIPY-ZIF-90.

Antibacterial agent	MIC ($\mu\text{g/mL}$)		MBC ($\mu\text{g/mL}$)		Light source	References
	<i>E. coli</i>	<i>S. aureus</i>	<i>E. coli</i>	<i>S. aureus</i>		
BODIPY-ZIF-90	5	5	7.5	5	LED (7W)	this work
ZIF-90	120	60				S1
ZIF-90-OM	60	60				S1
ZIF-8	31.25	31.25	250	250	808 nm NIR laser	S2
Ag/ZnO/ZIF-8	3.12	3.12	6.25	6.25	300 W Xenon Lamp	S3

Table S1. Comparison of MIC and MBC for BODIPY-ZIF-90 with different ZIFs composites.

References

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