

1 Synthesis of Carbon Dot-ZnO-Based Nanomaterials for
2 Antibacterial Application

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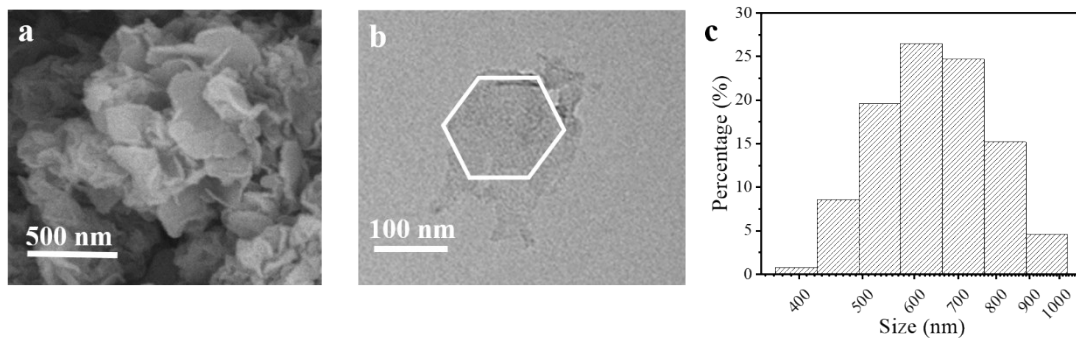
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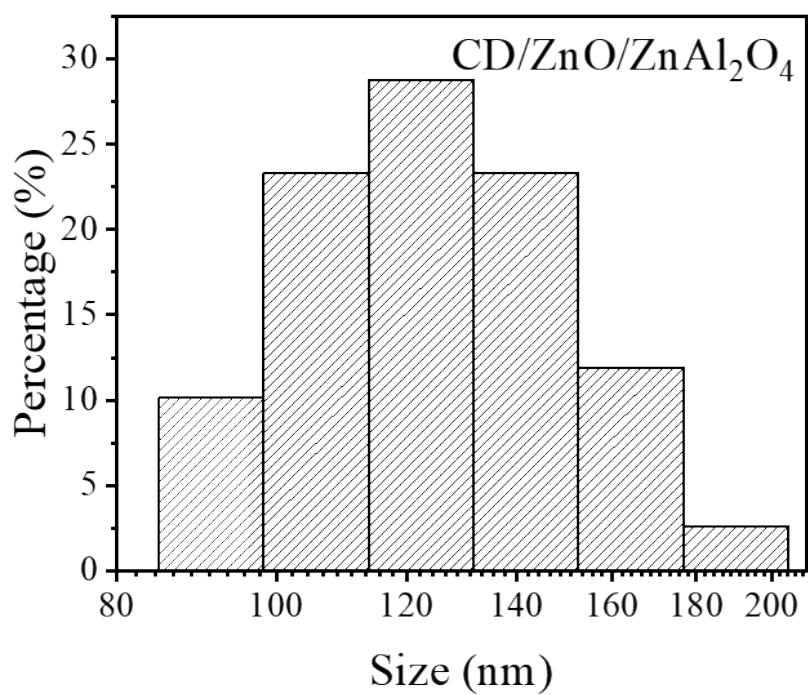
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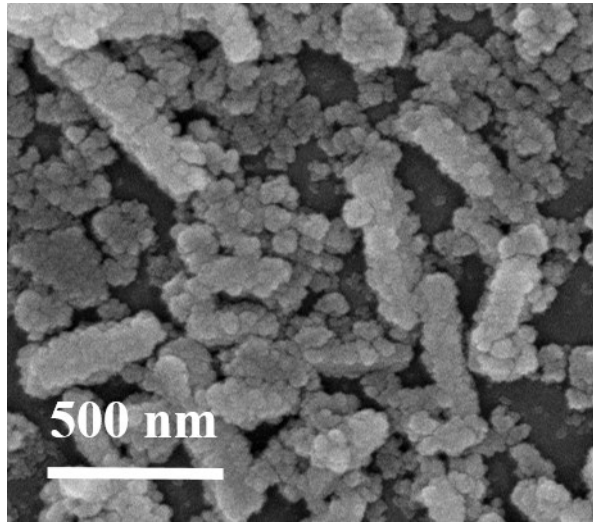
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2 Figure S1 SEM image (a), TEM image (b) and Size distribution (c) of ZnAl -
3 LDH.
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Figure S2 Size distribution of CD/ZnO/ZnAl₂O₄.

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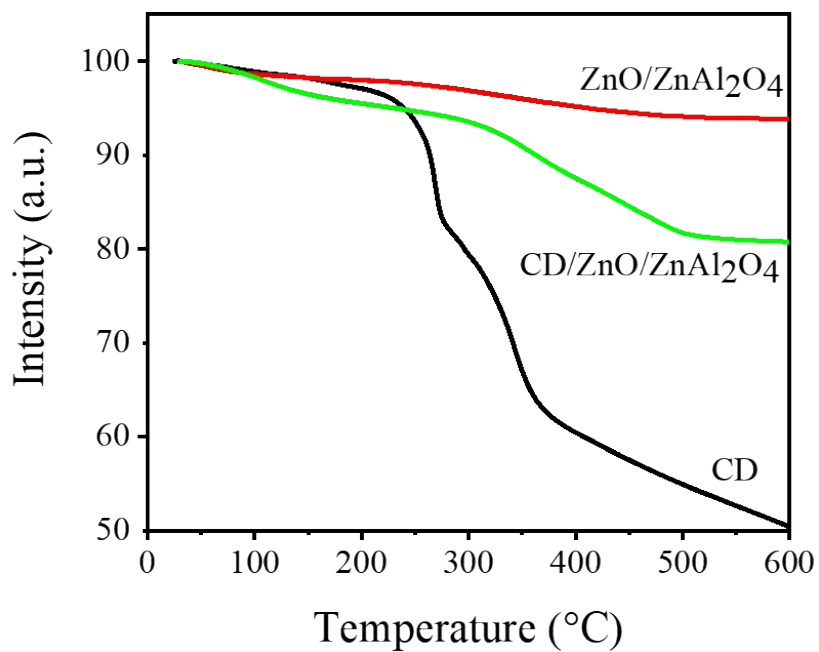
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Figure S3 SEM image of ZnO/ZnAl₂O₄.

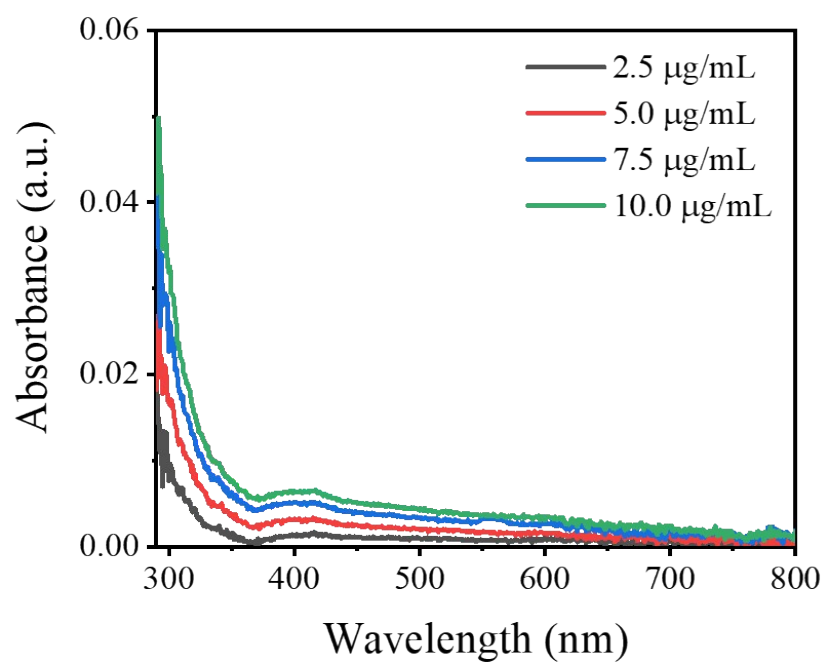
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3 Figure S4 TGA curves of CD, ZnO/ZnAl₂O₄ and CD/ ZnO/ZnAl₂O₄
4 nanocomposites.

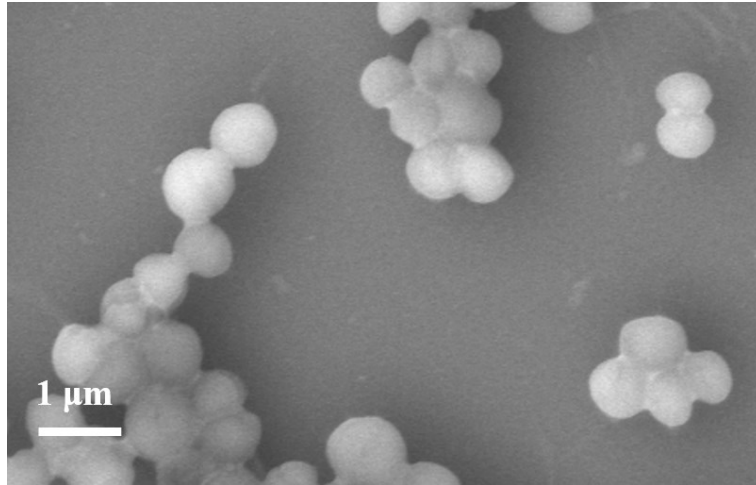
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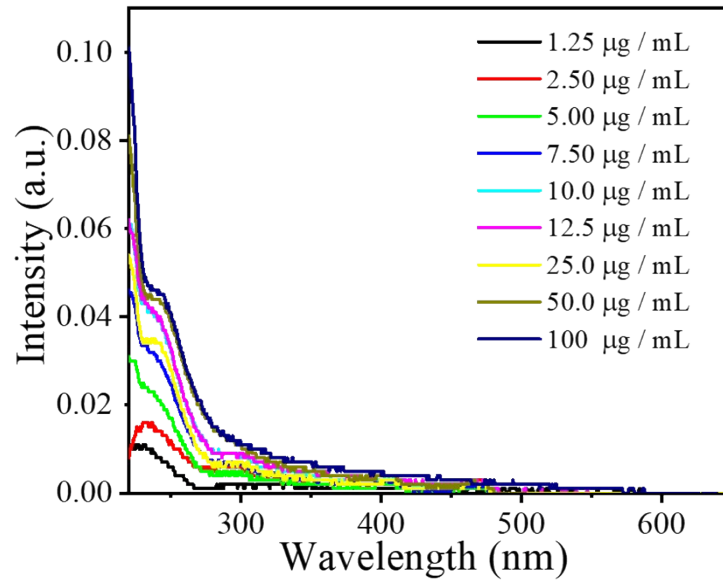
2 Figure S5 The UV-vis absorption of CD/ZnO/ZnAl₂O₄ in nutrient broth.

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Figure S6 SEM image of agglomerating *S. aureus* under normal conditions.



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Figure S7 The UV-vis absorption of CD/ZnO/ZnAl₂O₄ in PBS.