## **Supporting Information**

## Fabrication and absorption properties based on ZnO nanocomposites adjusted by length-diameter ratio of ZnO nanorods

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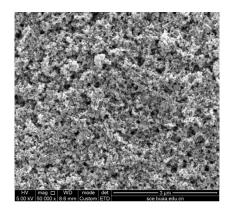


Figure S1. SEM image of ZnO precursors before hydrothermal process.

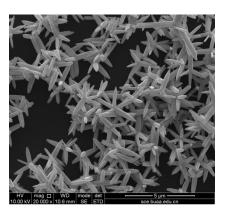


Figure S2. SEM image of ZnO products without CTAB.

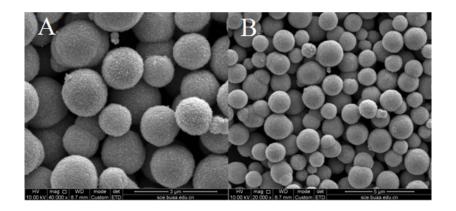


Figure S3. SEM image of ZnO products without HAA.

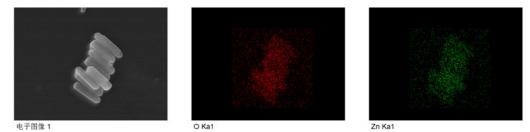


Figure S4. EDS mapping of ZnO nanorods.

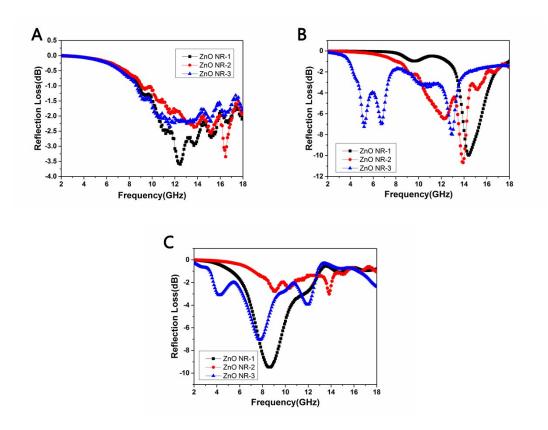


Figure S5. the RLs of the three samples with the same fillers content of (A: 5 wt%; B 10

wt%; C 25 wt%) with the thickness 3 mm.