

## Supporting Information (SI)

### Bi-directional-bi-dimensionality alignment of self-supporting $\text{Mn}_3\text{O}_4$ nanorod and nanotube arrays with different bacteriostasis and magnetism

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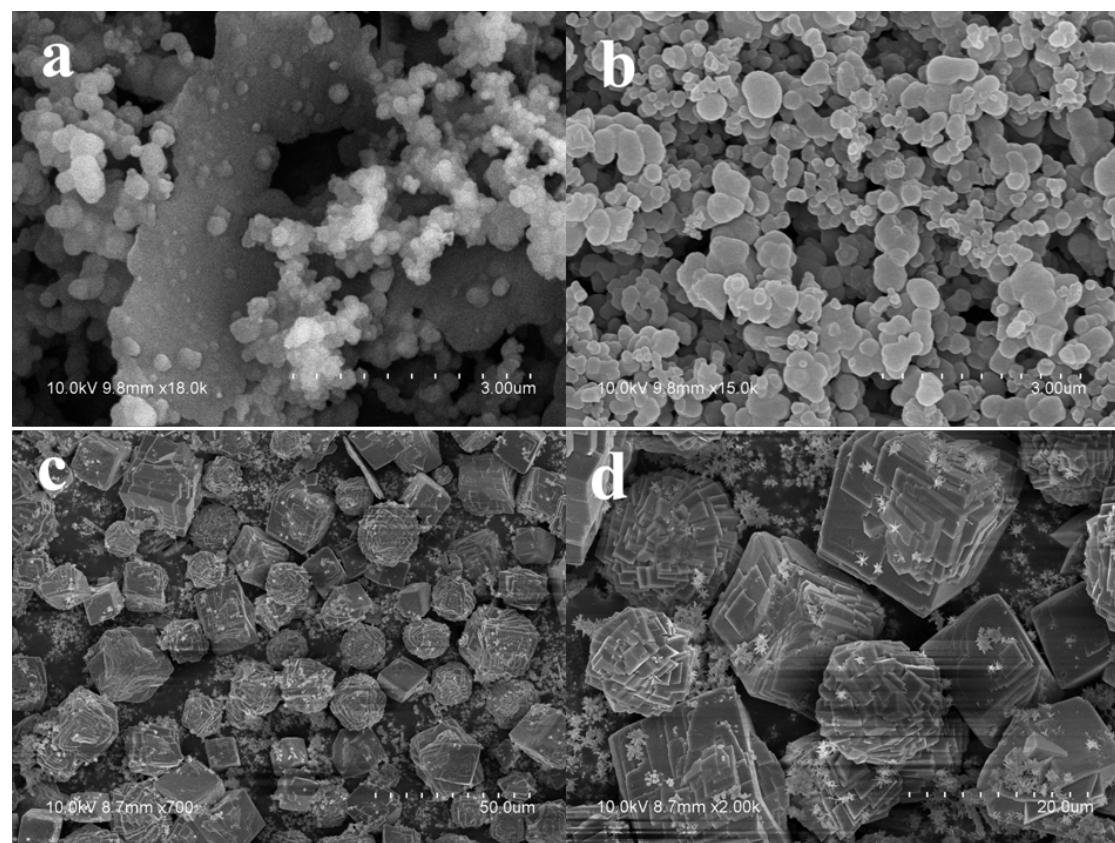


Figure S1 (a) an SEM image of the product prepared with the addition of 0.02 g of sodium gluconate but without the addition of urea; (b) an SEM image of the product prepared with the addition of 0.05 g of sodium gluconate but without the addition of urea; (c, d) SEM images of the product prepared with the addition of 0.01 g of urea but without the addition of sodium gluconate.

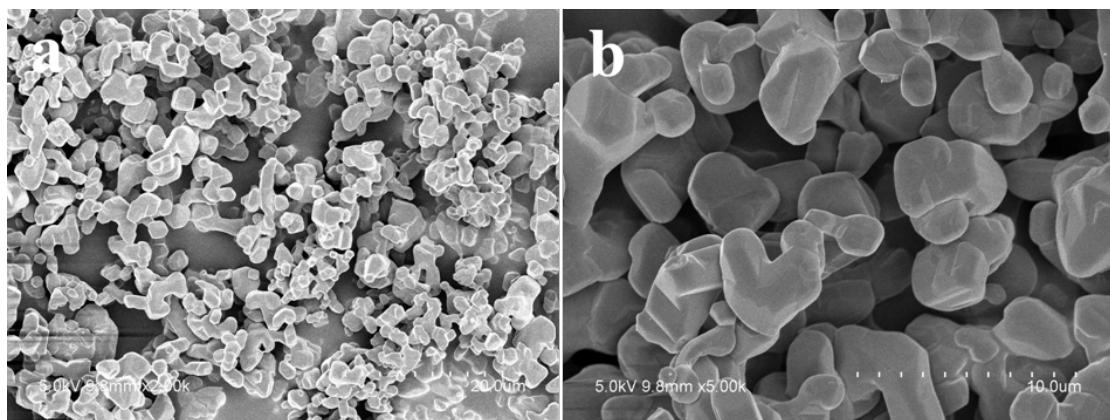


Figure S2 SEM images of the commercial  $\text{Mn}_3\text{O}_4$  powders.