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## **Preparation and performance testing of Ag nanoparticles embedded biological materials**

- Ag nanoparticles dispersed on powdered mussel shell via liquid chemical reduction method.
- Our composites have antibacterial effect on both sea water and fresh water bacteria.
- The degree of antibacterial effect is related to the release of total Ag from Ag-NP/PMS.
- The synthesized materials are suitable for long-term antibacterial agent.

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