

- The morphological characteristics and SERS enhancement effect of various gold-silver alloy nanomaterials are systematically compared.
- Optimized a set of Au @ Ag nanoparticle preparation methods that can generate multiple "hot spots".
- Innovated a set of AFB1-melamine-Au@Ag NPs detection system, which has great application potential in SERS detection of AFB1.
- The experimental operation is simple, not only can effectively detect low-concentration pure AFB1, but also can detect AFB1 in tea oil.