

## Supporting Information

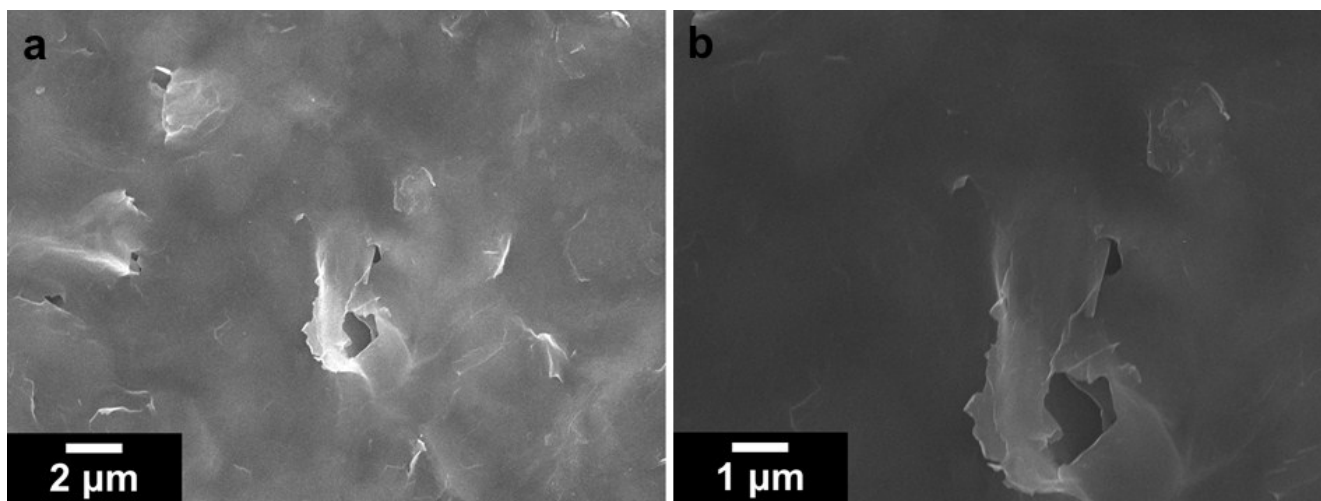
# Hierarchical self-assembly of random mica nanosheet- stabilized silver nanoparticles into flower microstructures for highly sensitive SERS substrates

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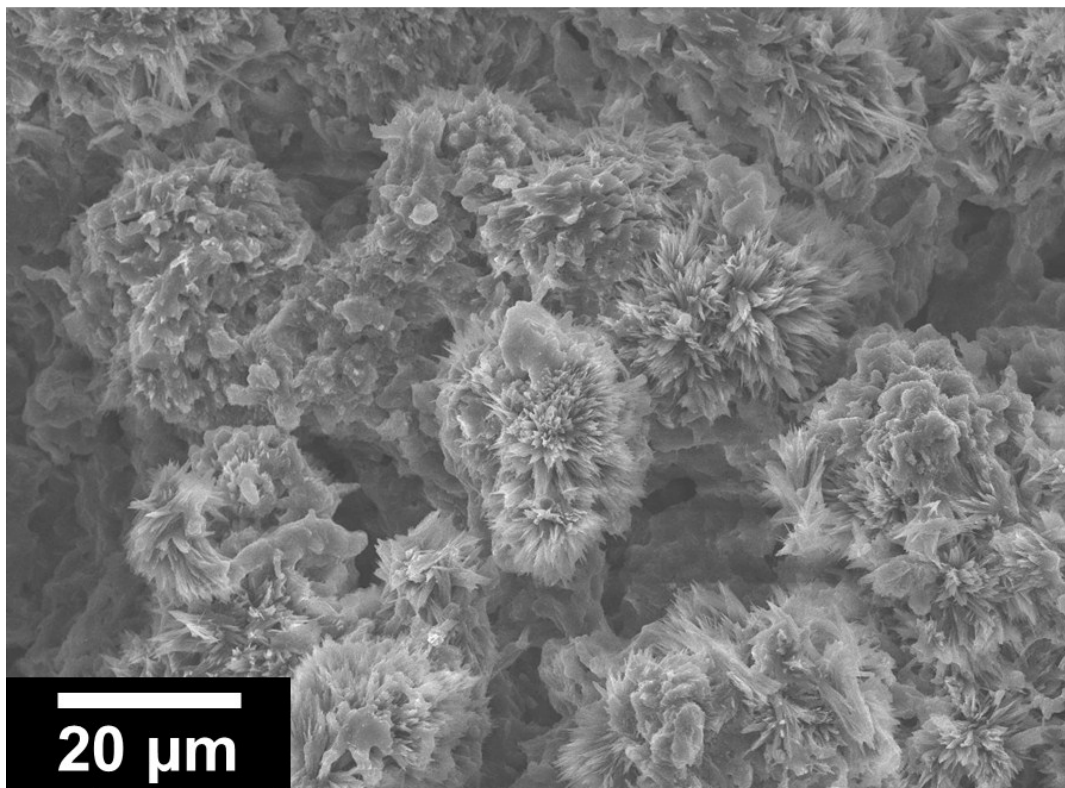
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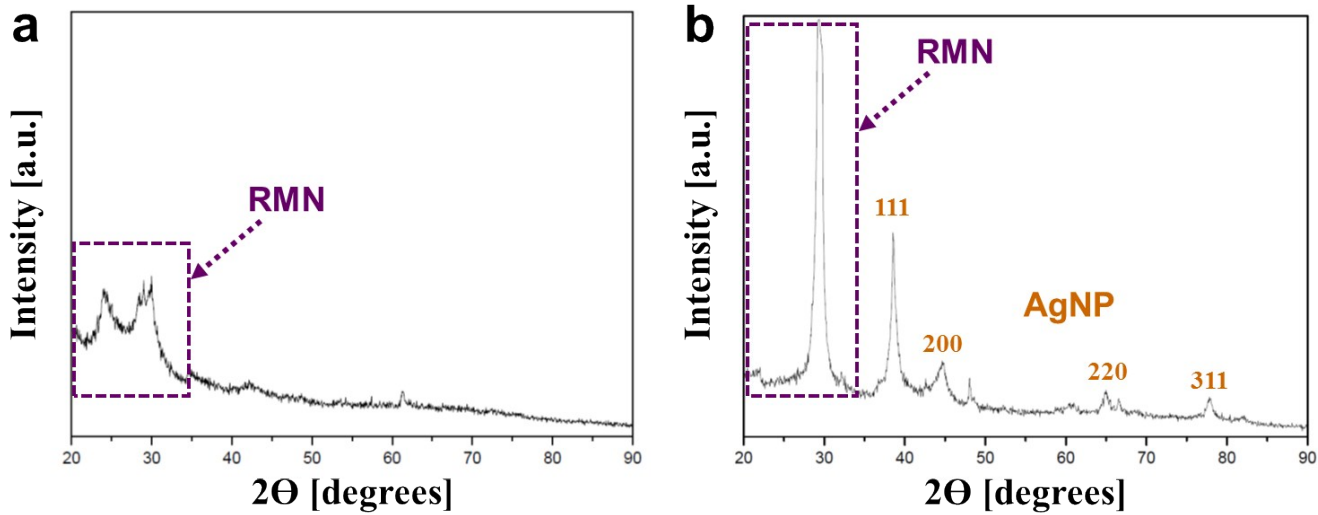
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**Fig. S1** The field-emission scanning electron microscopy (FE-SEM) micrographs of the controlled self-assembled morphologies at different magnifications (a and b) showing none of the ordered structure from the pristine Na<sup>+</sup>-mica under self-assembling conditions.



**Fig. S2** The FE-SEM micrographs of flower-like microstructure from the self-assembling of random mica nanosheet/silver nanoparticle (RMN/AgNPs) nanohybrids (weight fraction 1:1) at lower magnification.



**Fig. S3** The X-ray diffraction (XRD) analysis of the rod- and flower-like microstructures of RMN/AgNPs nanohybrids at different weight fractions of (a) 1:0 and (b) 1:1.