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Novel yolk-shell polymer/carbon@Au nanocomposites by using dendrimer-like mesoporous silica nanoparticles as hard template

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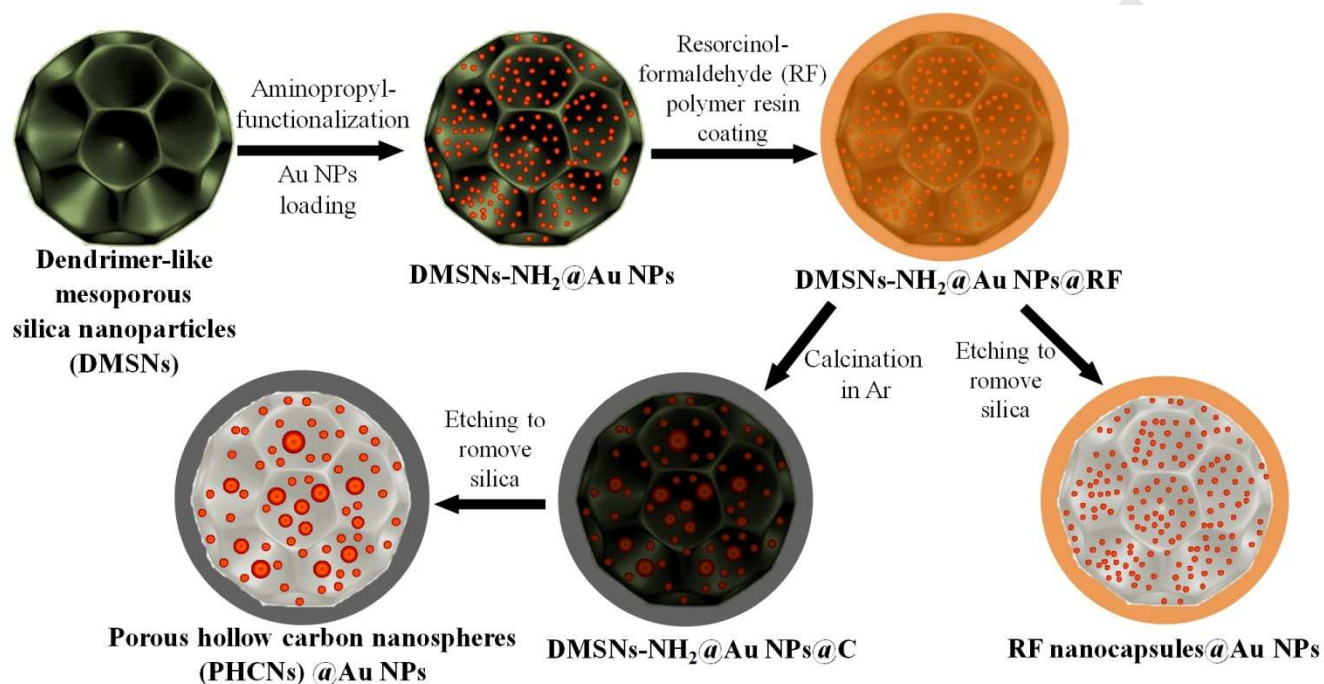
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The uniform yolk-shell structured RF nanocapsules@Au NPs and porous hollow carbon nanospheres@Au NPs were successfully fabricated by smartly employing dendrimer-like mesoporous silica nanoparticles with three-dimensional dendritic superstructure as hard template. The RF nanocapsules@Au NPs exhibit excellent catalytic performance and stability in the model catalytic reduction reaction of 4-NP.

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