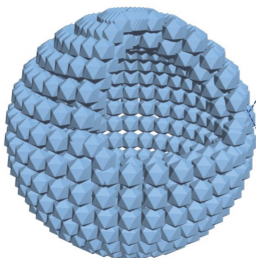
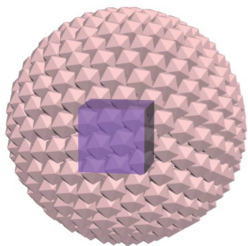
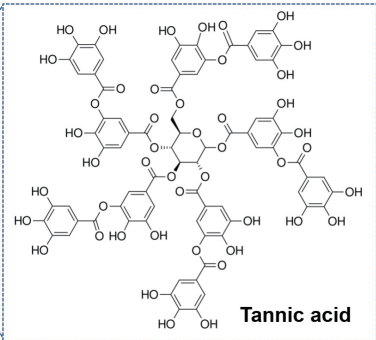


Amorphous ZIF sphere

Tannic acid  
etching

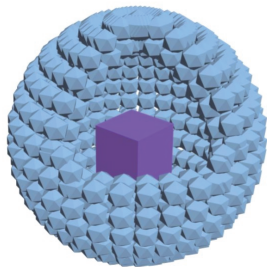


Hollow ZIF sphere



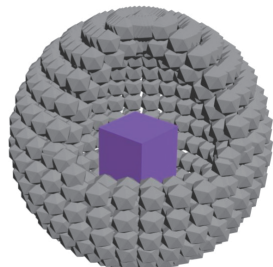
Core-shell structure

Tannic acid  
etching



Yolk-shell structure

Shell  
conversion



Yolk-shell structure