## Synthesis of nanocage-liked hollow ZIF with various particle sizes

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Nanomaterials are still receiving a lot of attention due to their excellent properties and various applications. Among them, metal-organic frameworks (MOFs) can be applied in various fields such as gas separation, storage, and catalysis. In this work, we synthesized ZIF-67 particles first in three different sizes (50, 200, and 500 nm) and then used them as sacrificial templates to grow ZIF-8 on surface. The excavation of ZIF-67 makes the particles hollow and consequently synthesizes nanocage-liked ZIF. The hollow ZIF particles were characterized by XRD, FE-SEM, TEM, and BET.