

结构型载体负载纳米银合成及催化性能

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Synthesis of Silver Nanoparticles Loaded onto a Structural Support and Their Catalytic Activity

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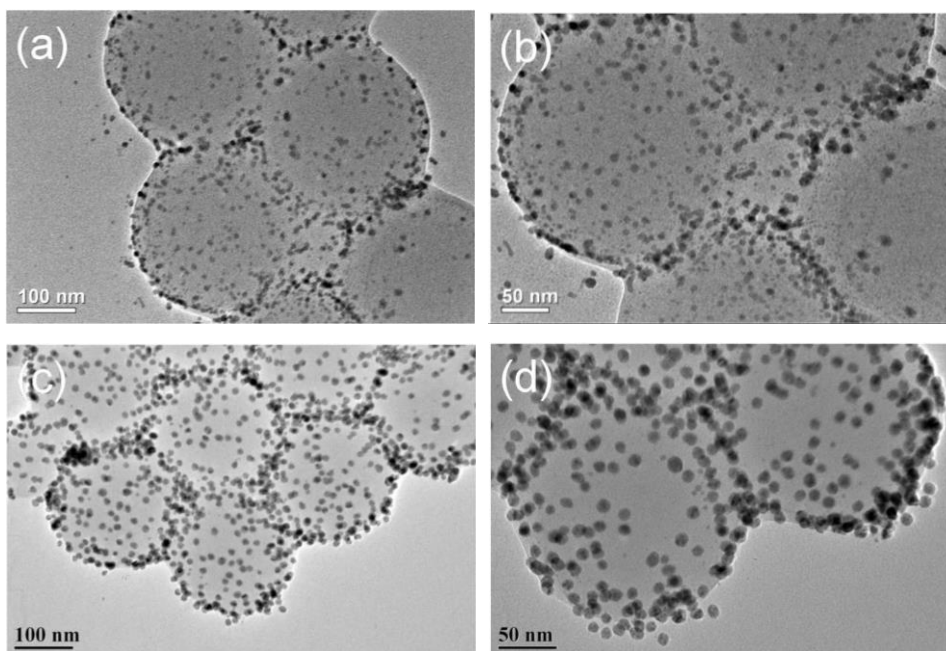


图 S1 巯基载体微凝胶修饰前(a, b)后(c, d)负载纳米银复合材料 TEM 照片
 Fig.S1 TEM images of silver nanoparticles supported on composite materials before (a, b) and after (c, d) modified by mercapto group

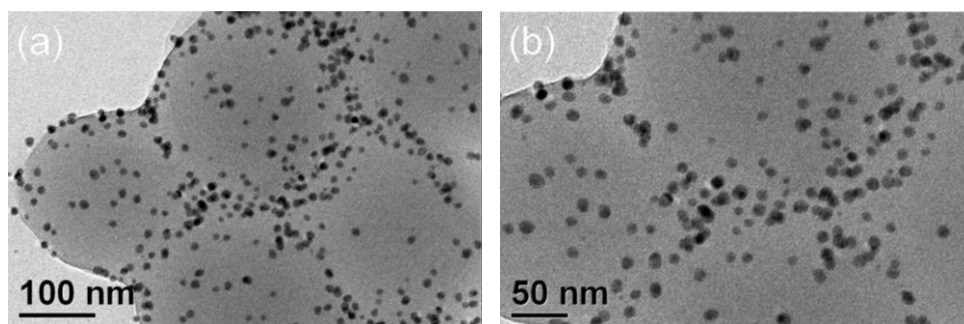


图 S2 P(St-NIPAM)/P(NIPAM-co-MPTMS)-(SH)Ag 复合微凝胶放置一个月的 TEM 照片
 Fig.S2 TEM images of P(St-NIPAM)/P(NIPAM-co-MPTMS)-(SH)Ag composite microgels storage for a month

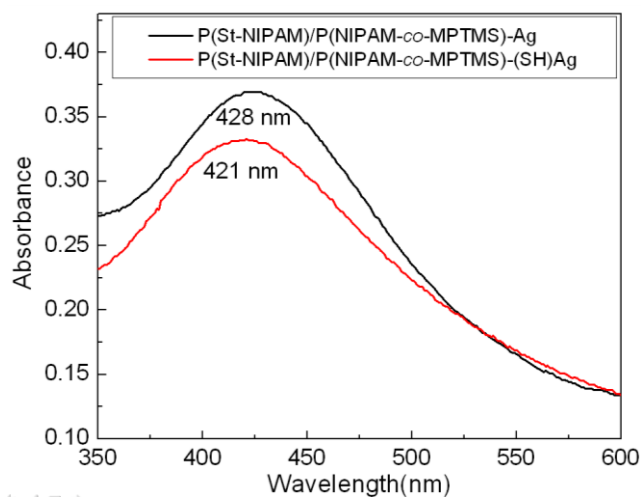


图 S3 载体修饰前后负载纳米银复合材料紫外-可见光谱图

Fig.S3 UV-vis spectra of silver nanoparticles supported on composite materials before and after modified by mercapto group

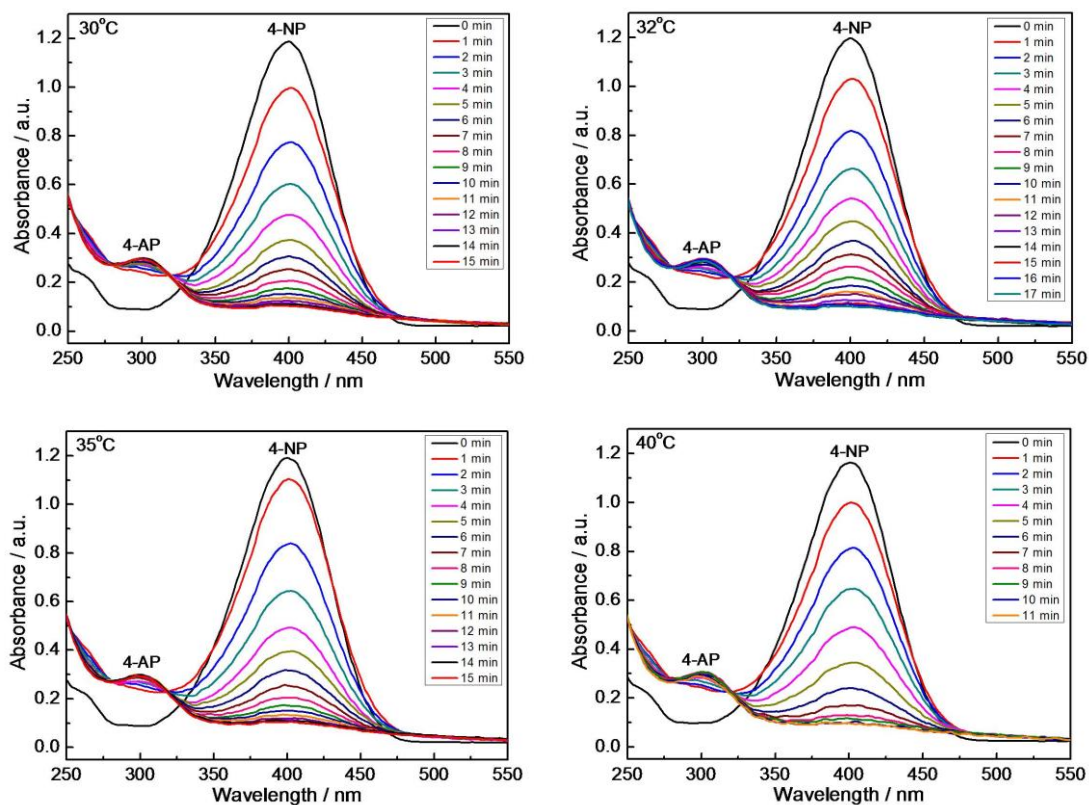


图 S4 不同温度时载体催化剂催化还原对硝基苯酚紫外-可见光谱图

Fig.S4 Successive UV-vis absorption spectra of the reduction of 4-NP over P(St-NIPAM)/P(NIPAM-co-MPTMS)-(SH)Ag under the different temperature

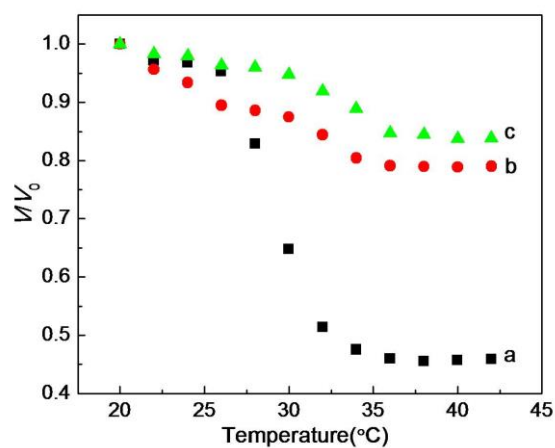


图 S5 复合微凝胶溶胀率随温度变化曲线

Fig.S5 The swelling ratio curves against temperature for composite microgels

(a) P(St-NIPAM)/PNIPAM, (b) P(St-NIPAM)/P(NIPAM-co-MPTMS),

(c) P(St-NIPAM)/P(NIPAM-co-MPTMS)-Ag

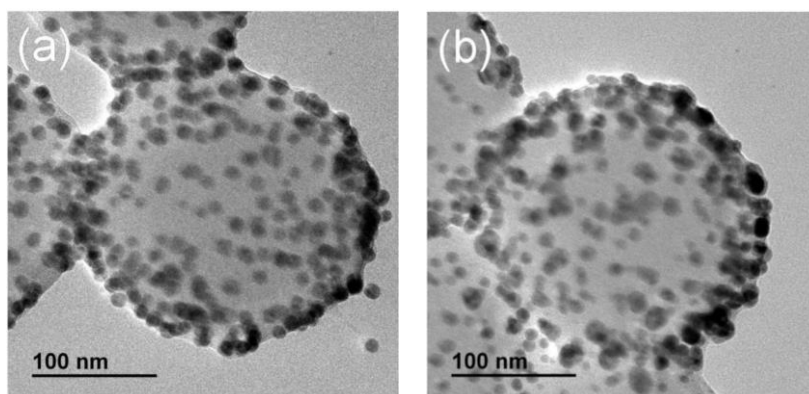


图 S6 P(St-NIPAM)/P(NIPAM-co-MPTMS)-(SH)Ag 复合材料循环使用 1 次和 3 次后的 TEM 照片

Fig.S6 TEM images of P(St-NIPAM)/P(NIPAM-co-MPTMS)-(SH)Ag composite materials after 1 and 3 reaction cycles