Soft route for monodisperse gold nanoparticles confined within SH-functionalized walls of mesoporous silica

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Electronic Supplementary Information

ESI 1: X-Ray Diffraction patterns of $X_{10}2$, $X_{20}2$ and $X_{40}2$
ESI 2: N$_2$ adsorption-desorption isotherms for X$_{40}$SH, X$_{20}$SH and X$_{10}$SH
ESI 3: X-Ray Diffraction patterns of \( X_{10}SH \), \( X_{20}SH \) and \( X_{40}SH \)
ESI 4: X-Ray Diffraction patterns of $X_{10}$SH, $X_{20}$SH and $X_{40}$SH
**ESI 5**: TEM image for $X_{10}Au_{20}$. 

![TEM image](image-url)
ESI 6: TEM image for AuNPs when starting from SBA-15 (Up) and from X22 (Bottom).
**ESI 7**: TEM image showing the evolution of AuNPs in $X_{10}Au_5$ after thermal treatment at 900°C.