

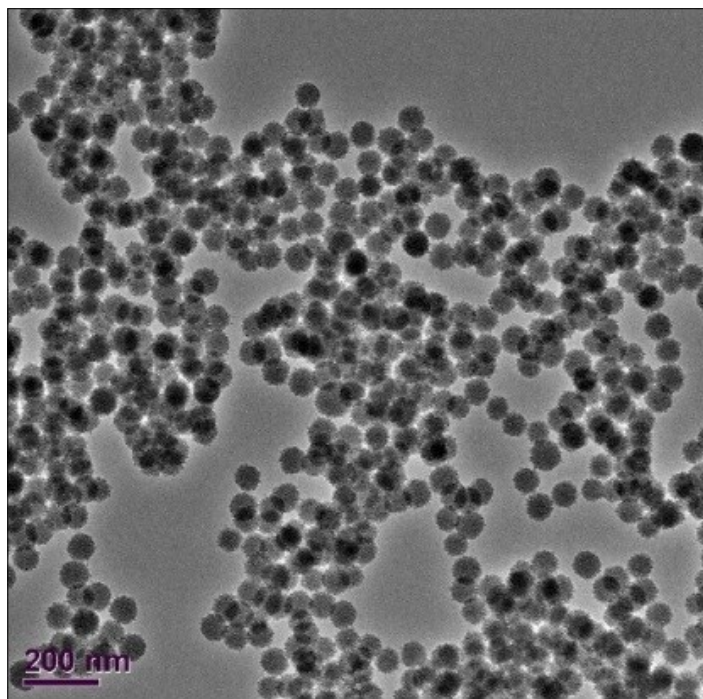
*Supporting information for*

**Biodegradable and Biocompatible Monodispersed Hollow Mesoporous  
Organosilica with Large Pores for Delivering Biomacromolecules**

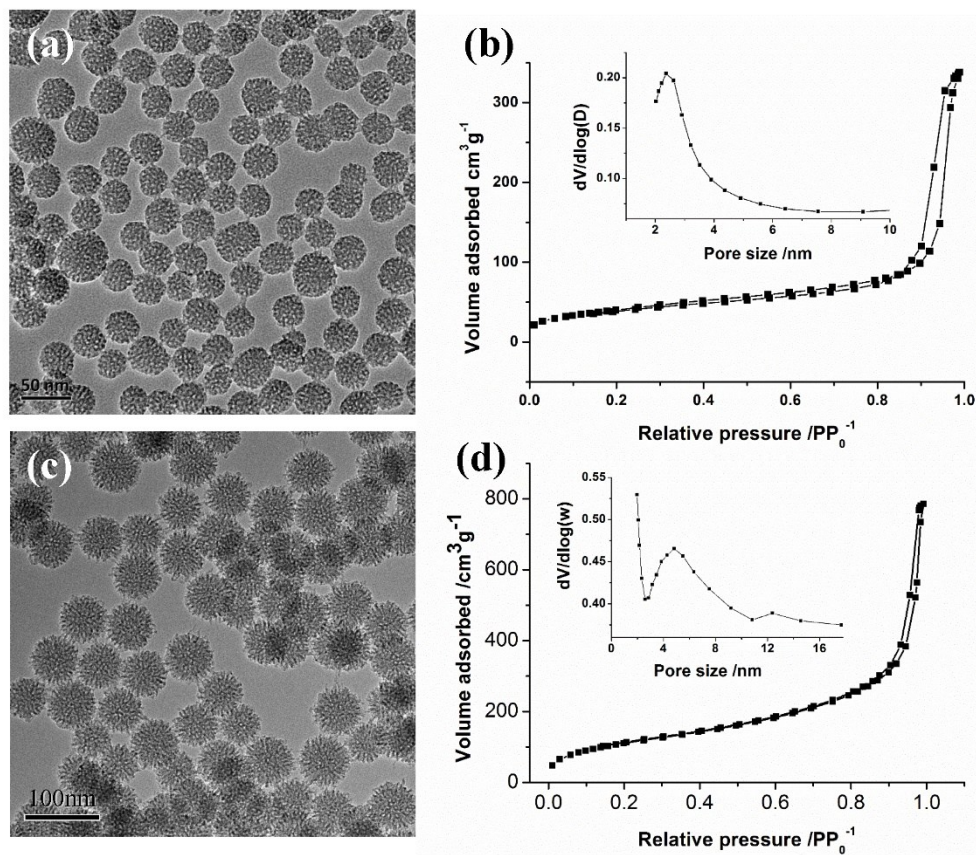
Linlin Zhang, Liying Wang, Heliang Yao, Fangfang Xu\* and Yu Chen\*

State Laboratory of High Performance Ceramics and Superfine Microstructure, Shanghai Institute of Ceramics,  
Chinese Academy of Sciences, Shanghai, 200050, P. R. China.

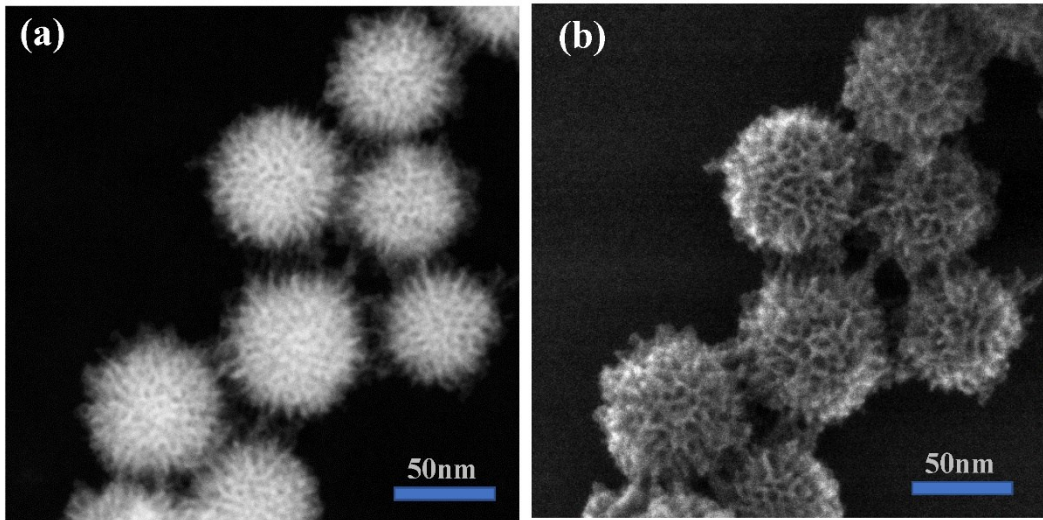
\*E-mail: [ffxu@mail.sic.ac.cn](mailto:ffxu@mail.sic.ac.cn); [chenyu@mail.sic.ac.cn](mailto:chenyu@mail.sic.ac.cn)



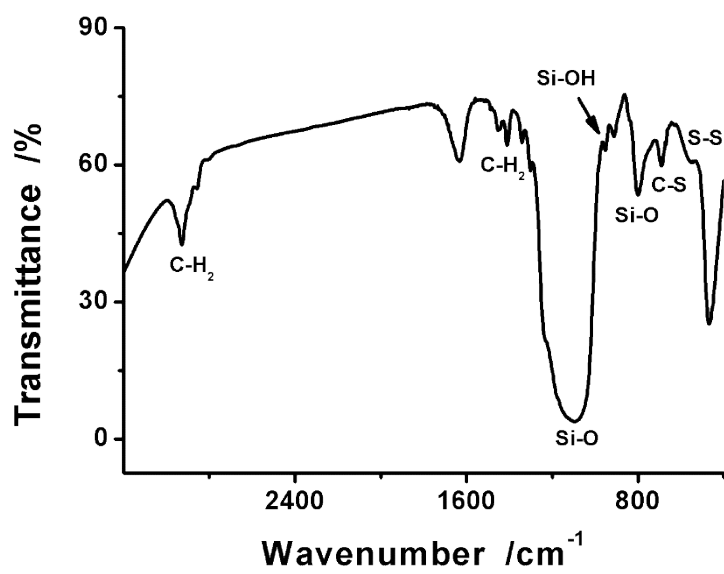
**Figure S1.** TEM image of as-synthesized core/shell-structured MSNs@MONs.



**Figure S2.** (a) TEM image of initially synthesized MSNs. (b)  $N_2$  adsorption-desorption isotherm and corresponding pore-size distribution of MSNs (inset figure). (c) TEM image of MSNs@MONs. (d)  $N_2$  adsorption-desorption isotherm and corresponding pore-size distribution of MSNs@MONs (inset figure).



**Figure S3.** (a) Dark-field TEM image and (b) SEM image of core/shell-structured MSNs@MONs.



**Figure S4.** FT-IR spectrum of as-synthesized LHMONs.