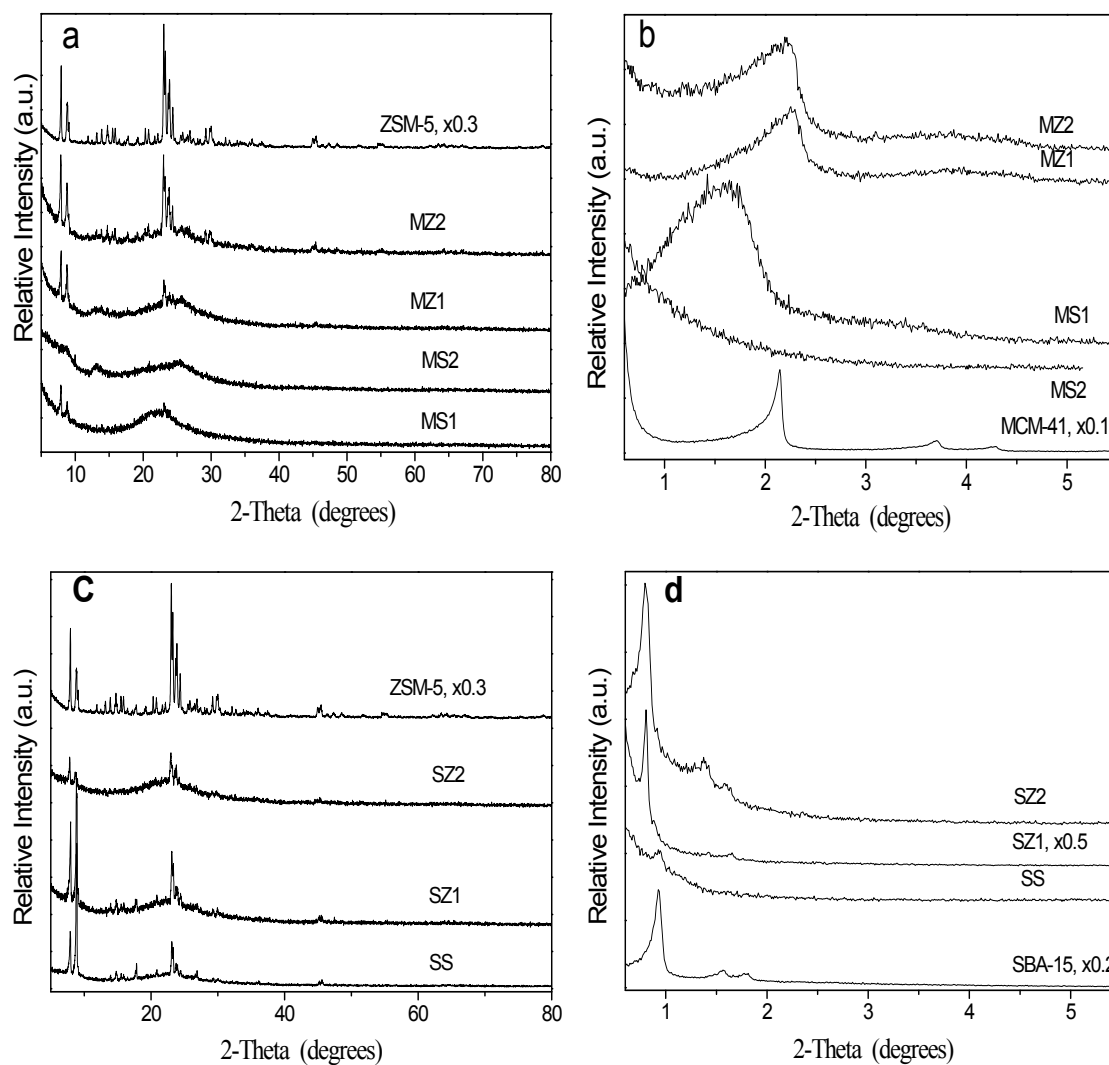


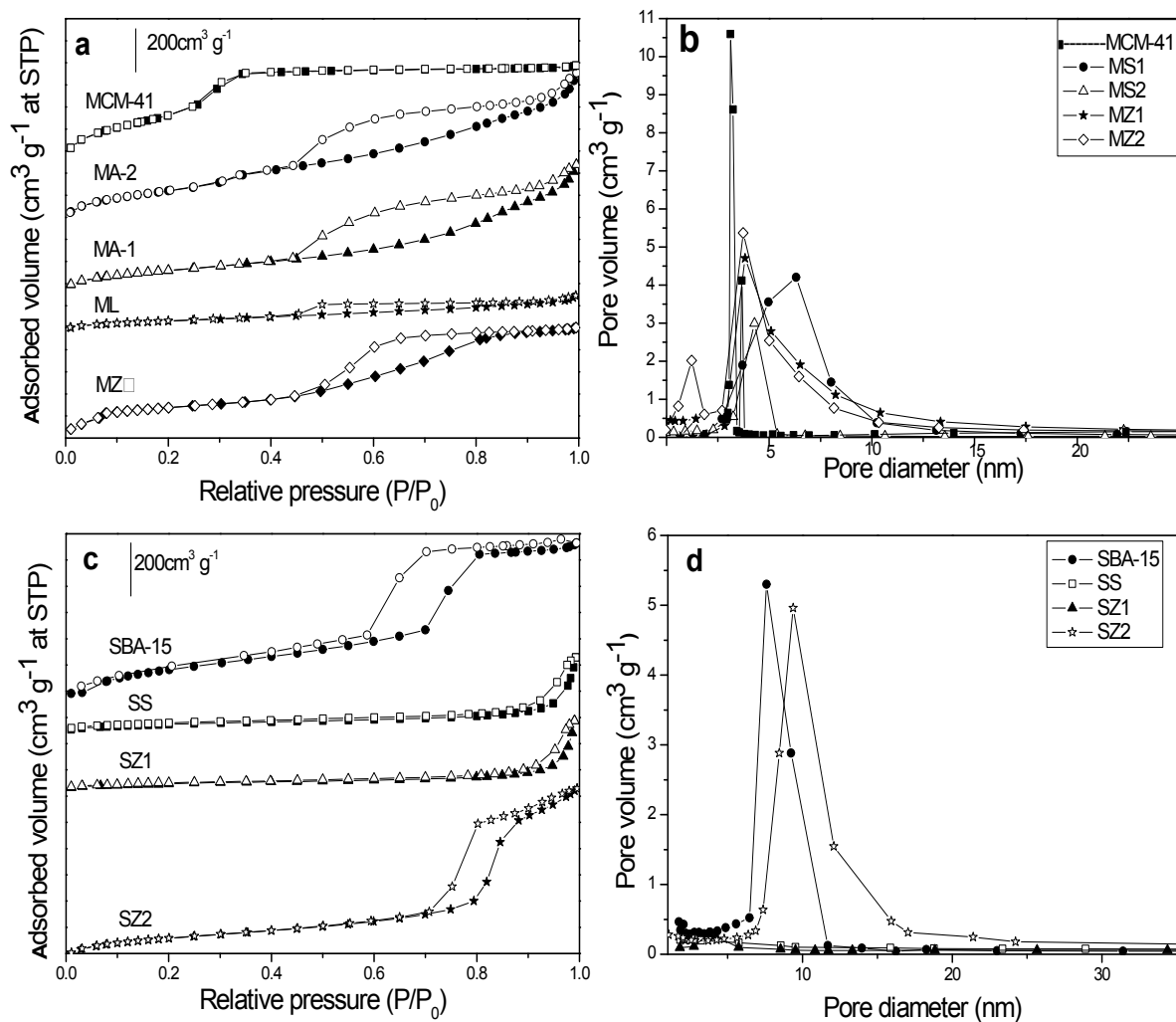
## Supporting Information

**Table S1.** Parameters and coefficients obtained for Peppas release kinetic model  $M_t/M_\infty = a \cdot t^b$  fitted to the heparin release profiles from mesoporous zeolite series samples.

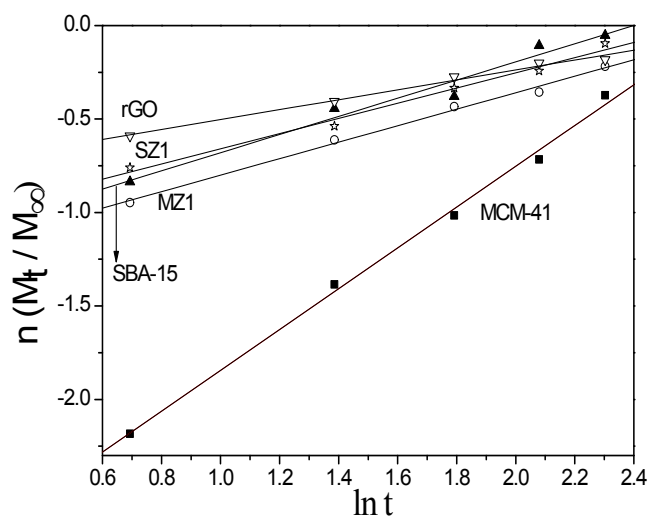
Sample	a	b	R <sup>2</sup>
MCM-41	0.053	1.091	0.996
MZ1	0.289	0.441	0.994
SBA-15	0.311	0.486	0.969
SZ1	0.406	0.345	0.986
rGO	0.464	0.265	0.989



**Figure S1.** XRD patterns (a, c, WXR; b, d, LXR) of mesoporous-zeolite samples.



**Figure S2.** The  $\text{N}_2$  adsorption–desorption isotherms (a, c) and pore size distribution (b, d) of the mesoporous-zeolite of M (a, b) and S (a, b) series samples.



**Figure S3.** Release data fits to Peppas model for samples.