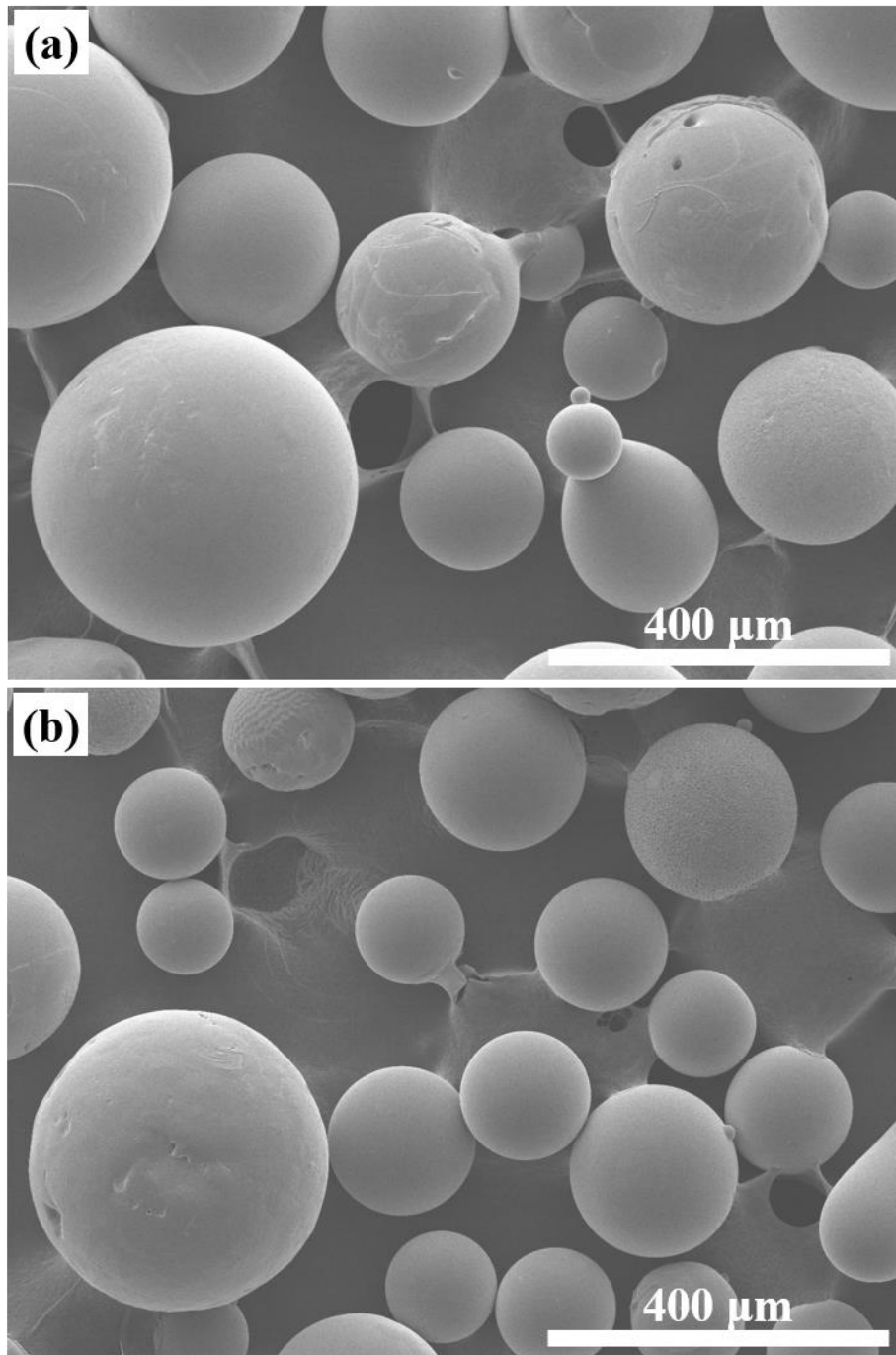


Supplementary Materials



**Fig. S1.** SEM images of re-treated sand: (a) N2 and (b) A2.