

Supplementary materials

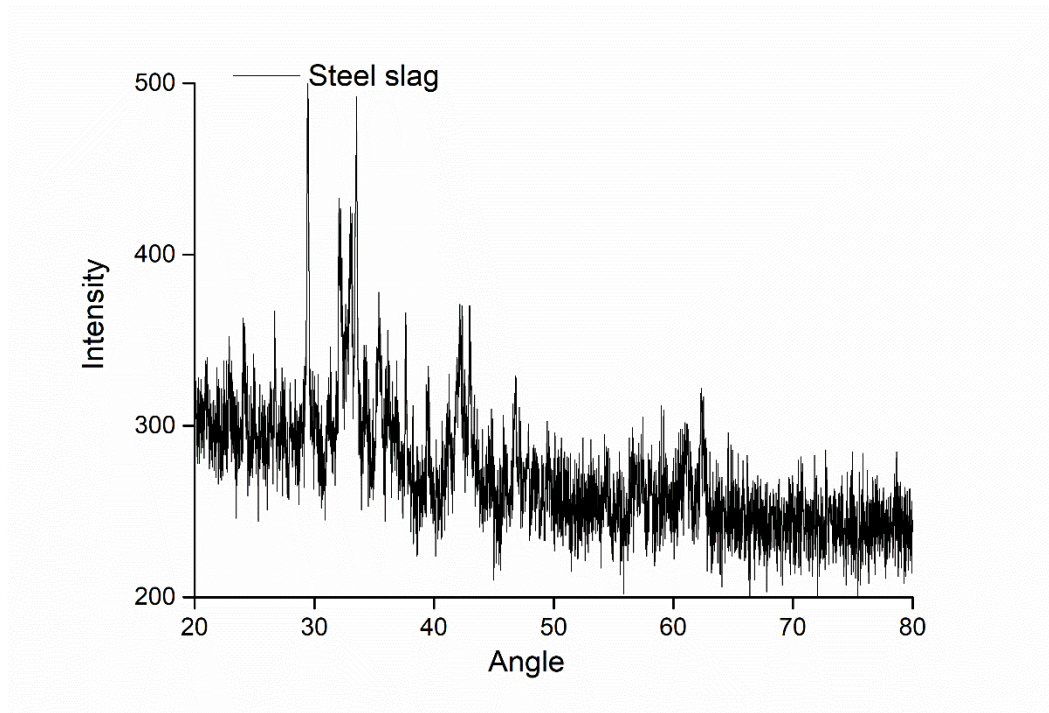


Fig. S1 XRD pattern of the steel slag

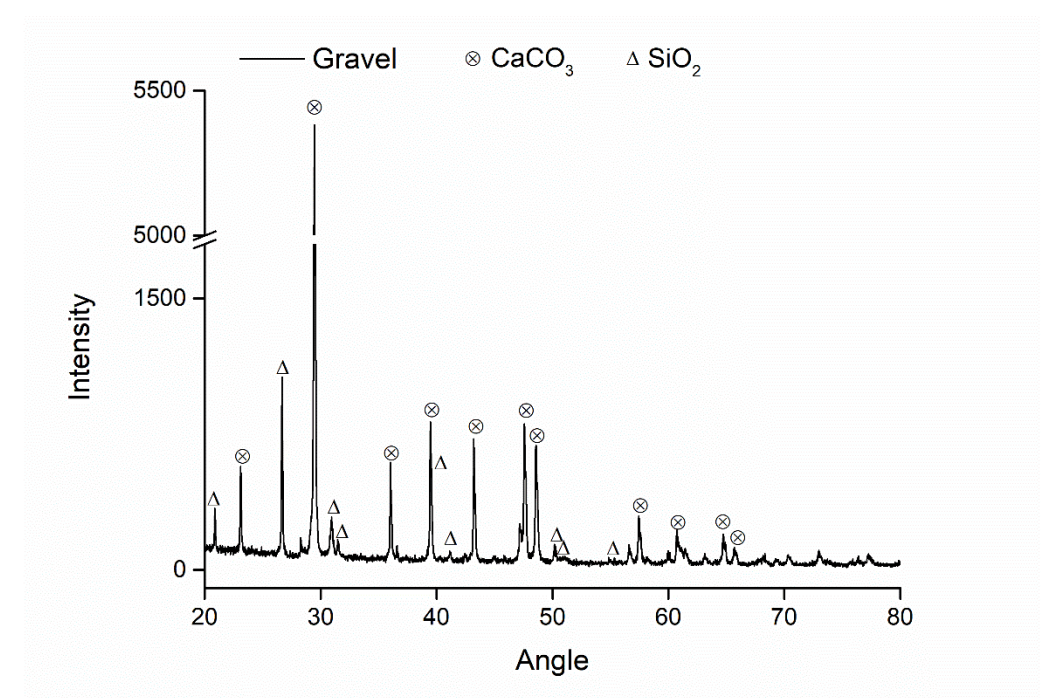
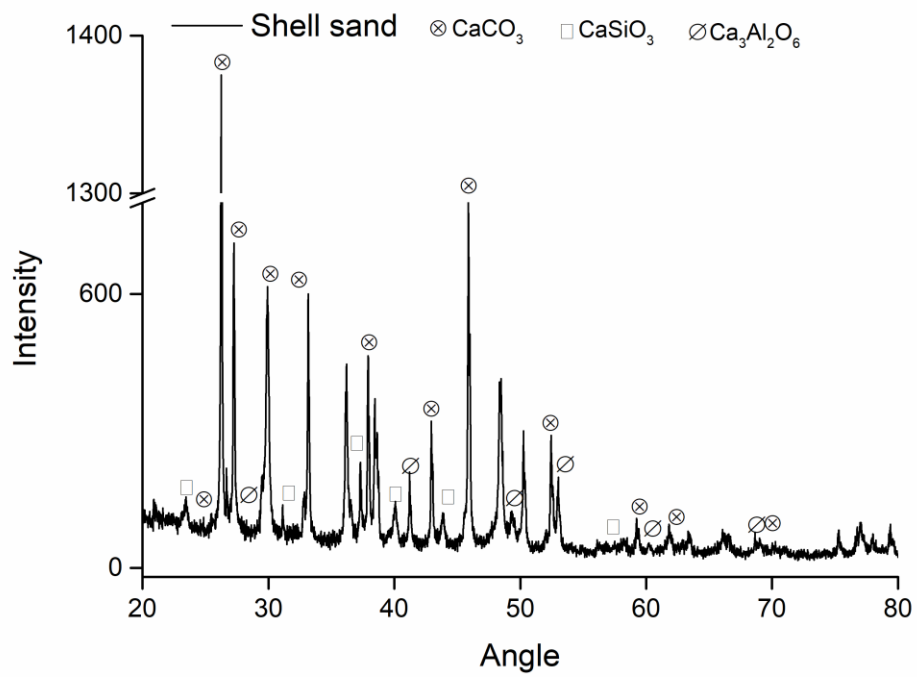


Fig. S2 XRD pattern of the gravel



**Fig. S3** XRD pattern of the shell sand