

Fig. S1 Color change of the samples by co-milling

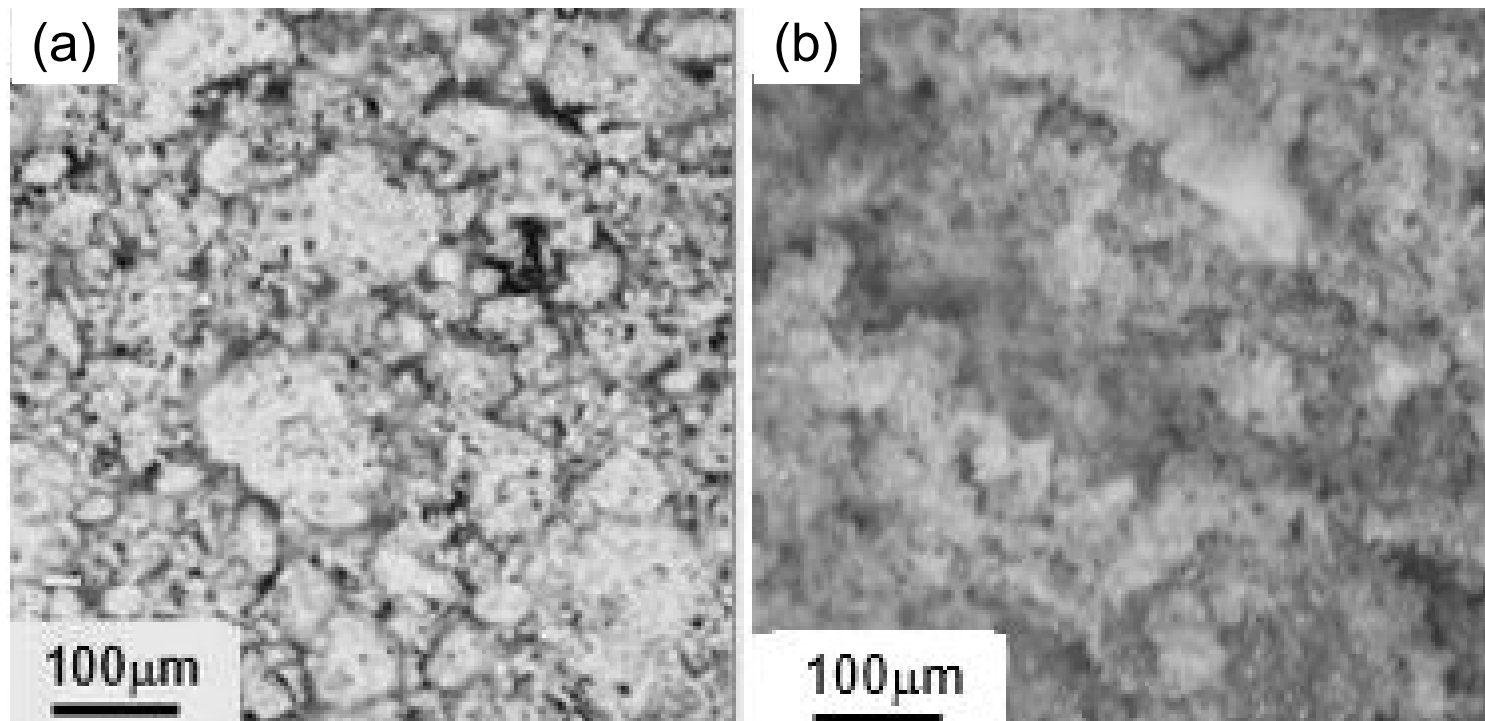


Fig. S2 SEM image of  $\text{SiO}_2$  co-milled with (a) PVdF, (b) PP for 3 h

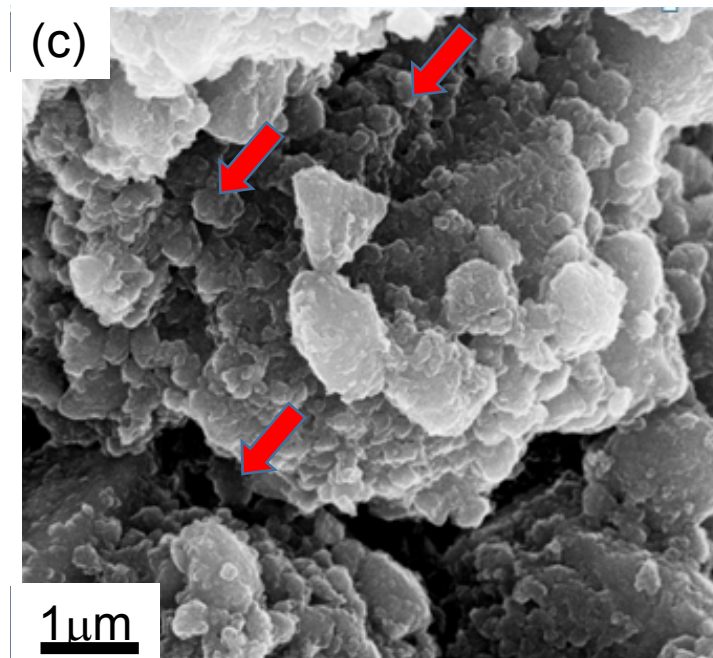


Fig.S3 Co-milled with PP for 3h with higher magnification. The dark particles marked by the arrows correspond to the dark dots shown in Fig. S2(b).which might be associated with carbon species, although further confirmation is needed.