



Fig S1. Dispersion of CNT in SDC solution (left) and water (right).

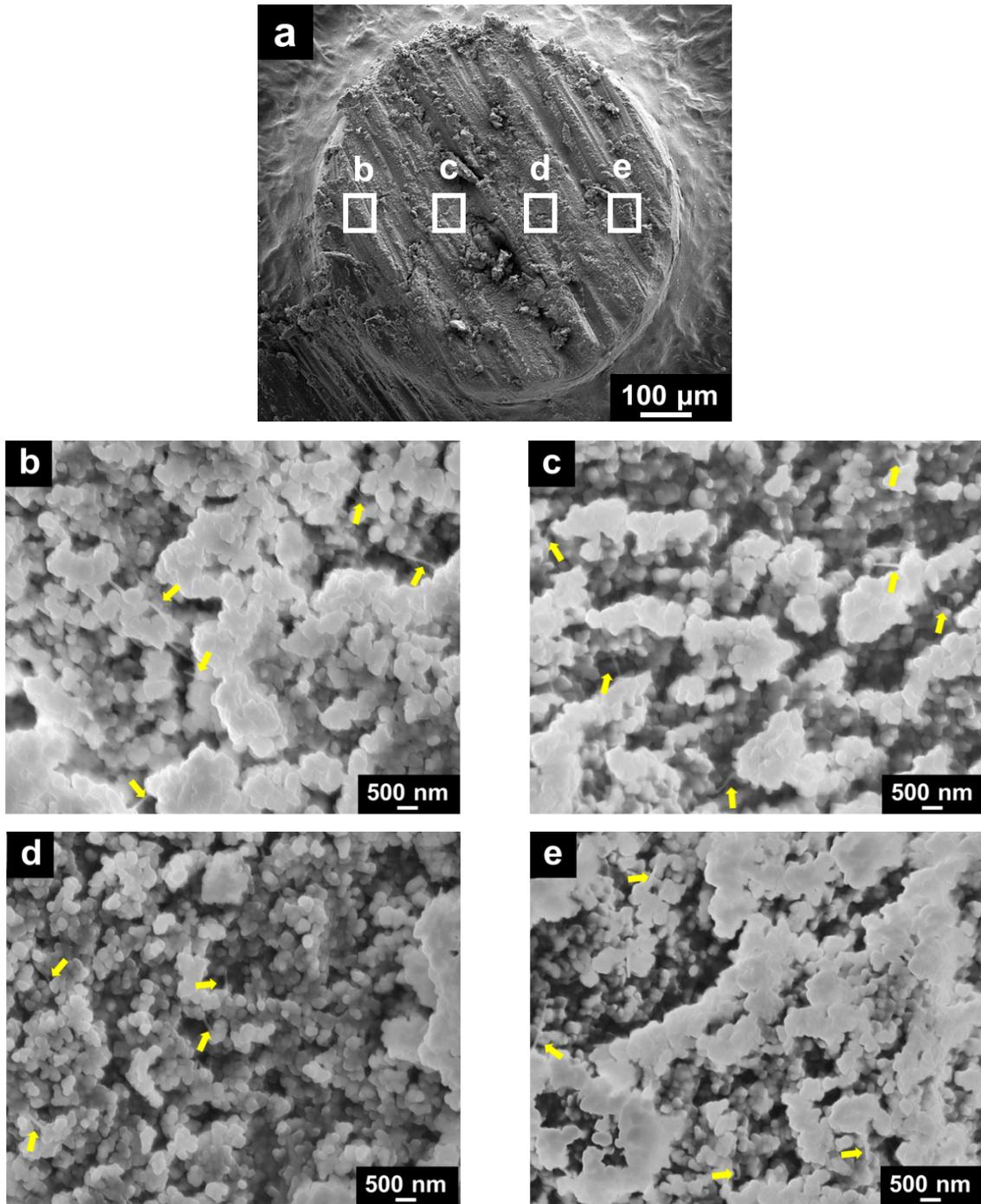


Fig. S2: Low magnification SEM images of the cross-sectional area of a homogeneous CNT incorporated $\text{Al}_2\text{O}_3\text{-ZrO}_2$ granule. The even and sparse distribution of CNT are indicated with arrows. (a) represents the image of a homogeneous CNT incorporated $\text{Al}_2\text{O}_3\text{-ZrO}_2$ granules while (b)-(e) represent magnified observation of the area indicated in (a), respectively (CNT amount: 0.4 vol%).

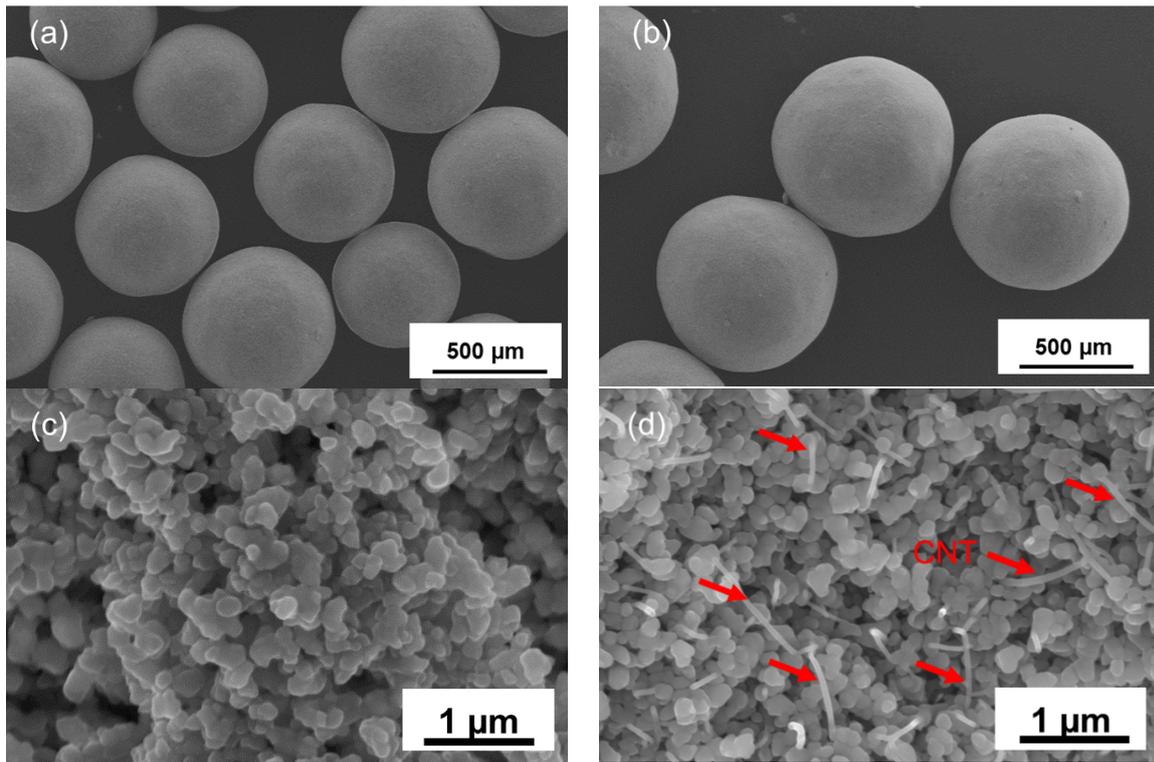


Fig. S3: SEM images of (a) Al₂O₃ and (b) CNT (0.5 vol%)-Al₂O₃ composite granules. The respective high magnification images showing the microstructural morphologies are shown in (c) and (d), respectively. The red arrows indicate CNT presence in the CNT-Al₂O₃ composite granules.