

Product Name: SnO₂ for gas sensors

1. Changes in the morphology and composition after high-energy irradiating the mixed raw powders.

Typical transmission electron microscopy (TEM) images of (a) aggregated SnO2 particles at different reduction degrees, (b) SnO2 with/without graphene, and (c) several SnO2-based particles adsorbed in graphene. (d) Schematic diagram of the formation of the SnO2 core-Sn shell observed in a and c, according to the degree of the high-energy reduction. (e) Concentration distribution of Sn and O near the surface. Line mapping profiles of the concentration distributions of (f) Sn and (g) O, indicating the higher Sn concentration on the surface than on the inside.



2. XRD & Raman analysis



3. Comparison of the initial resistance values at (a) 50°C, (b) 100°C, (c) 150°C, and (d) 200°C for SnO2



4. Particle size analysis



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