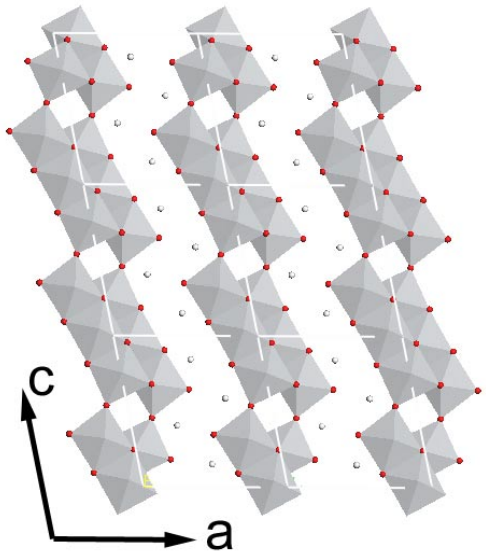
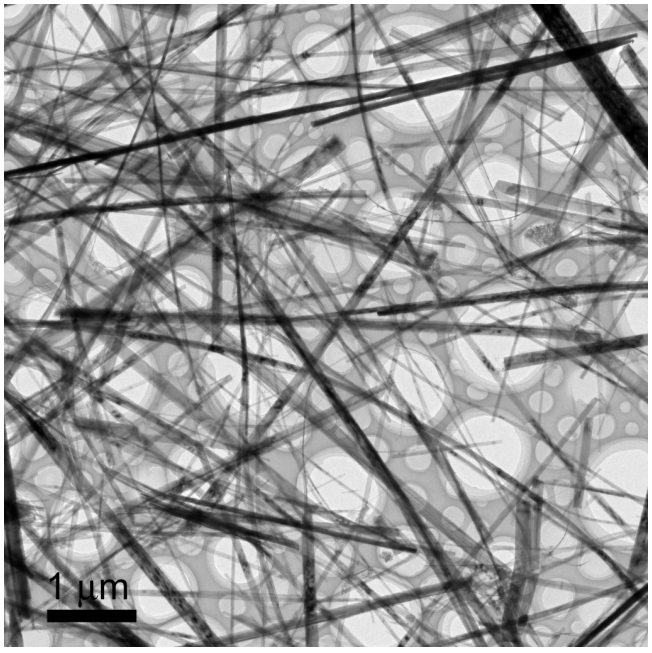
Supporting Information



SI-I. Structure model of a 2 × 3 unit cells of $Na_2Ti_3O_7$ on the [010] projection. The structure of $Na_2Ti_3O_7$ differs from that of $H_2Ti_3O_7$ by a relative displacement of the layers by ***b***/2. On the [010] projection, two unit cells of $Na_2Ti_3O_7$ along ***c*** axis comprise one unit cell of $H_2Ti_3O_7$.



SI-II. Complete conversion of 20 mg TiO_2 powders into $H_2Ti_3O_7$ nanowires by 180 ^{0}C hydrothermal reaction for 40 hours. If self-folding of nanosheets does not happen, large areas of thin nanosheets will be kept since the nutrient source is not enough for the growth of $Na_2Ti_3O_7$ into thick layers, from which the nanowires split off.