

Fig. S1. XRD data of M-TiO₂ beads synthesized via a solvothermal reaction at 100 °C; (a) before and (b) after calcination at 500 °C.

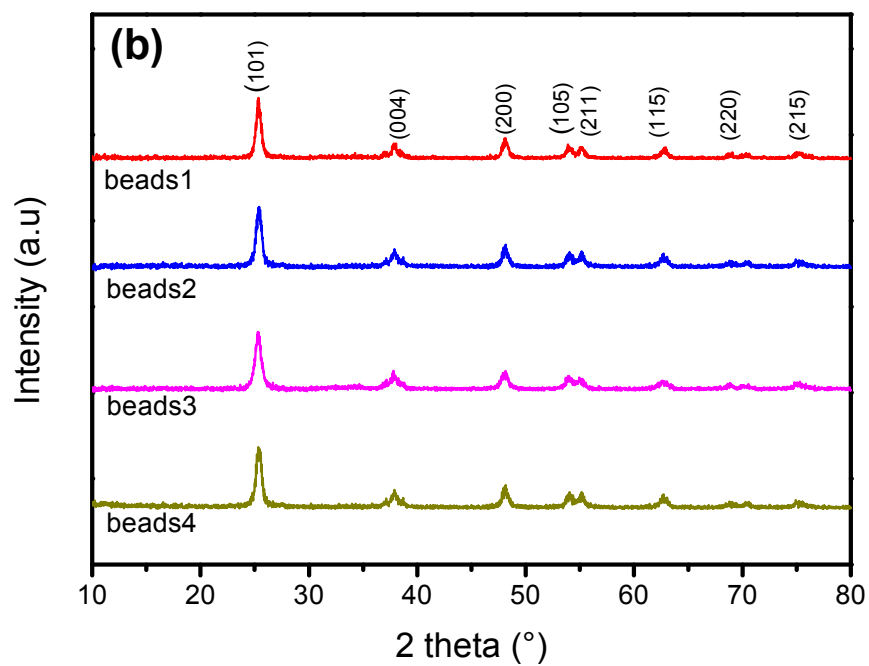
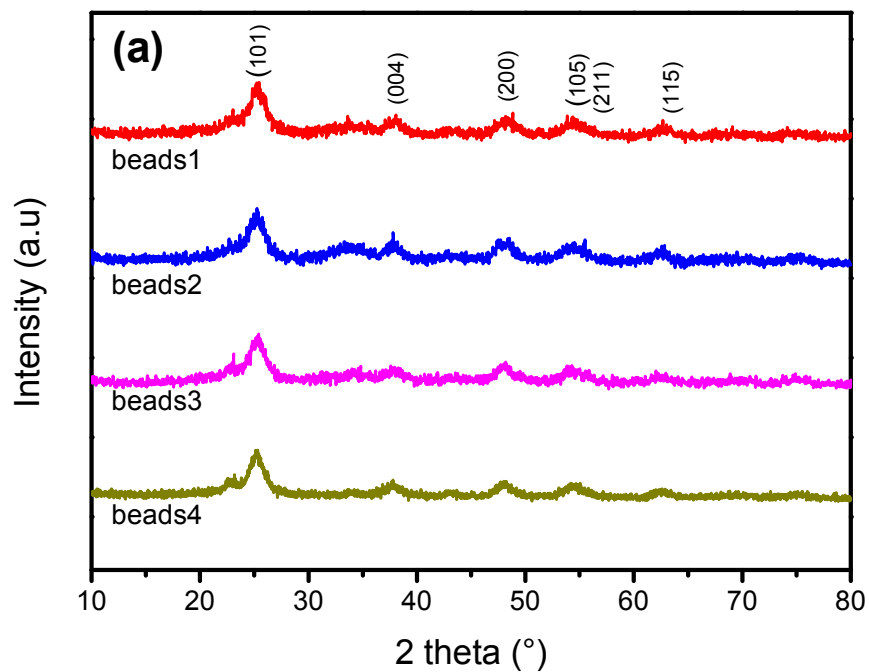


Fig. S2. BET results of M-TiO₂ beads; (a) N₂ adsorption-desorption isotherms and (b) pore size distribution curves from the Barrett–Joyner–Halenda (BJH) method.

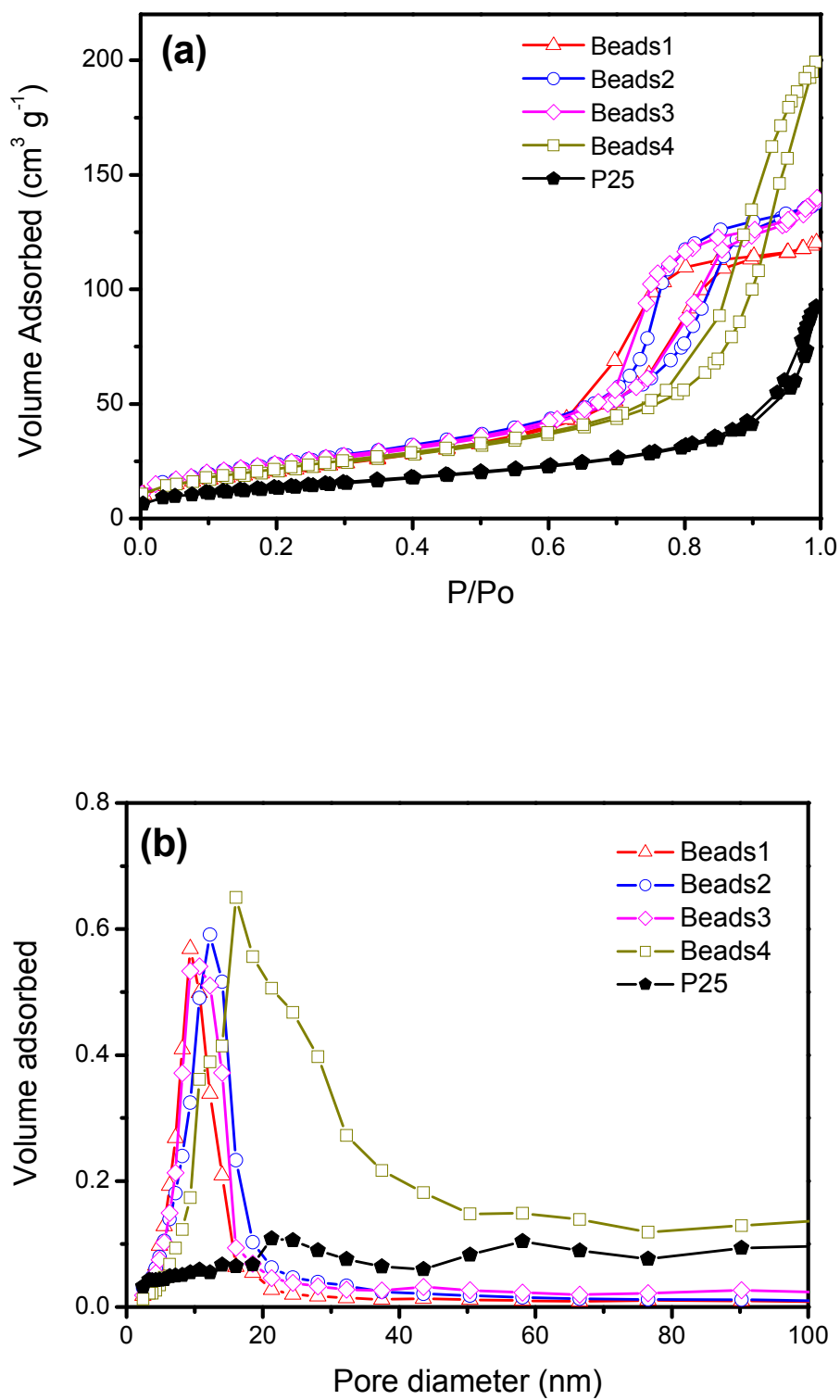


Fig. S3. UV-visible reflectance spectra of the photoelectrodes fabricated with M-TiO₂ beads and P25.

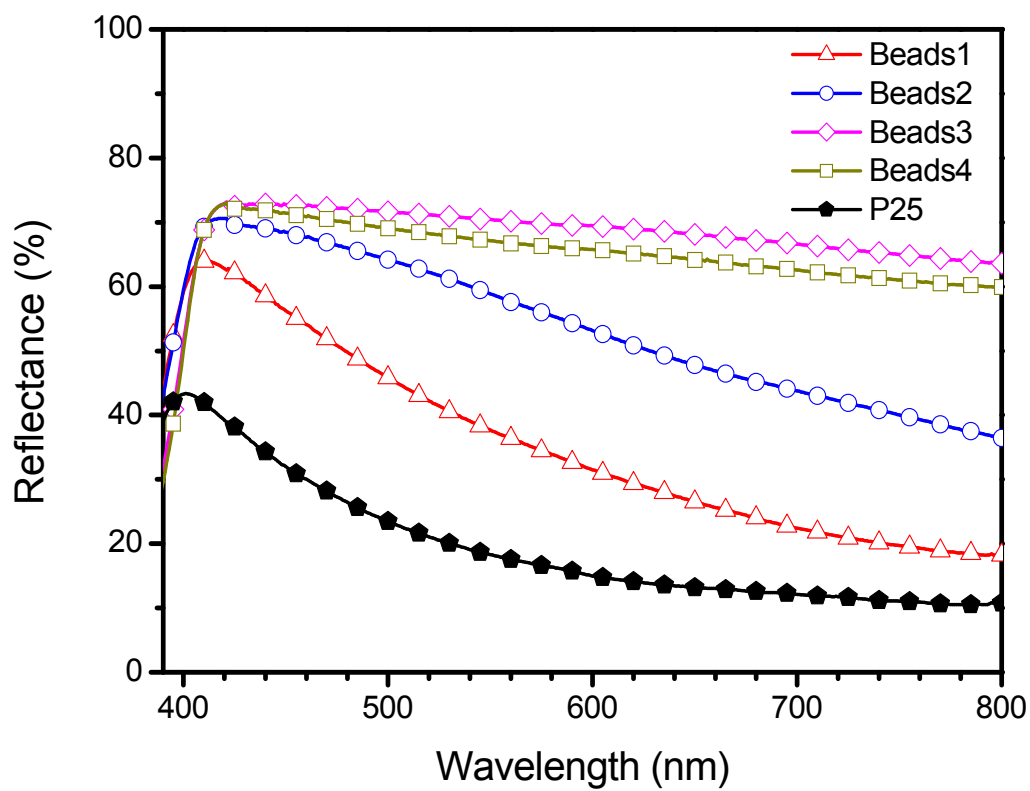


Fig. S4. IMVS/IMVS results of DSSCs fabricated with M-TiO₂ beads; (a) electron lifetime (τ_r), (b) diffusion coefficient (D_n) and (c) electron diffusion length (L_n).

