

ESI (electronic supplementary information)

Title:

Controlling growth of nanosized titania *via* polymers gelation for photocatalytic application

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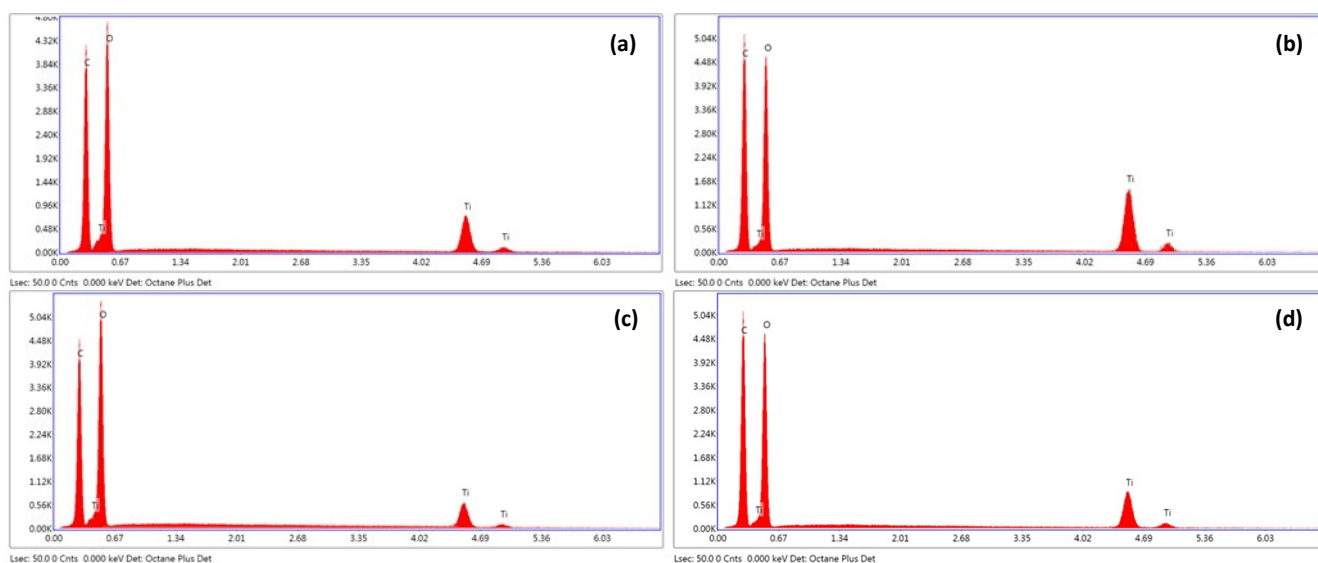


Fig. S1. EDS analysis of: (a) CMC@Ti_X, (b) CMC@Ti_C, (c) Alg@Ti_X and (d) Alg@Ti_C

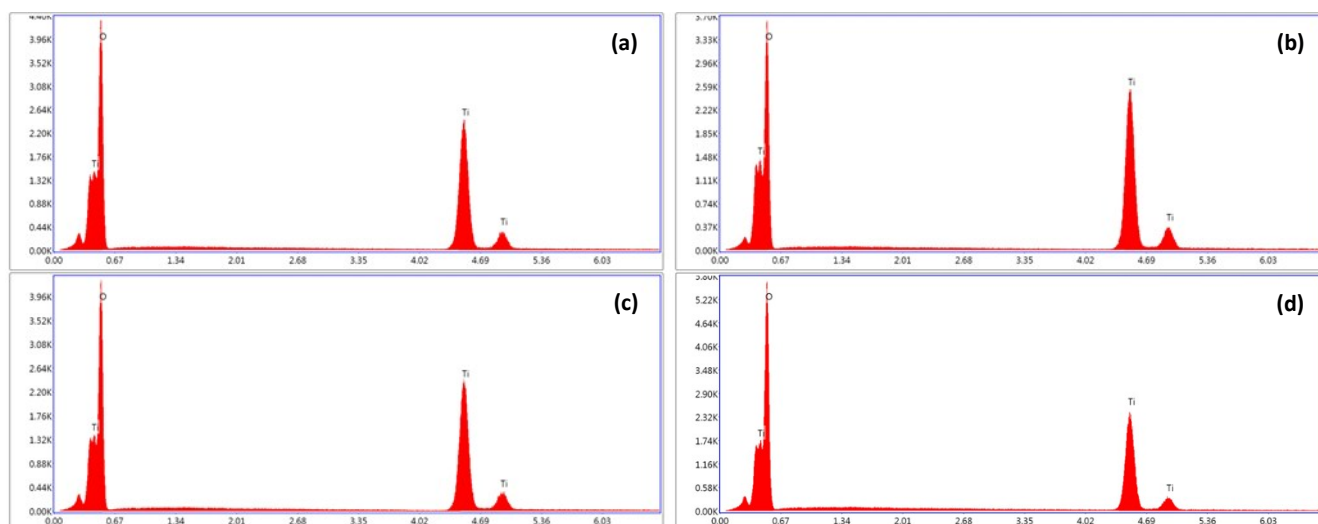


Fig. S2. EDS analysis of: (a) TiO₂_X_{cmc}, (b) TiO₂_C_{cmc}, (c) TiO₂_X_{alg} and (d) TiO₂_C_{alg}

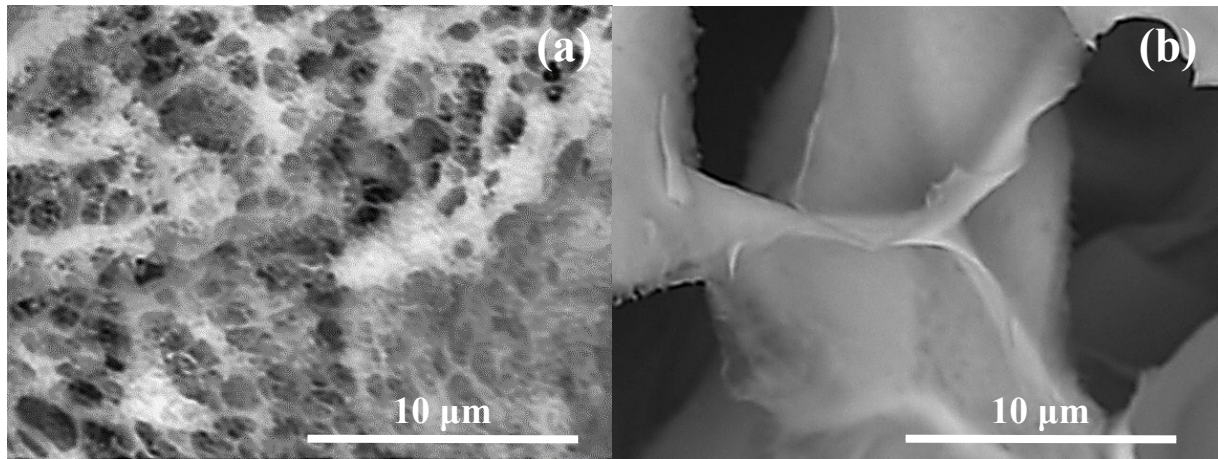


Fig. S3. Low magnification SEM images of: (a) $\text{TiO}_2\text{-C}_{\text{cmc}}$, and (b) $\text{TiO}_2\text{-C}_{\text{alg}}$

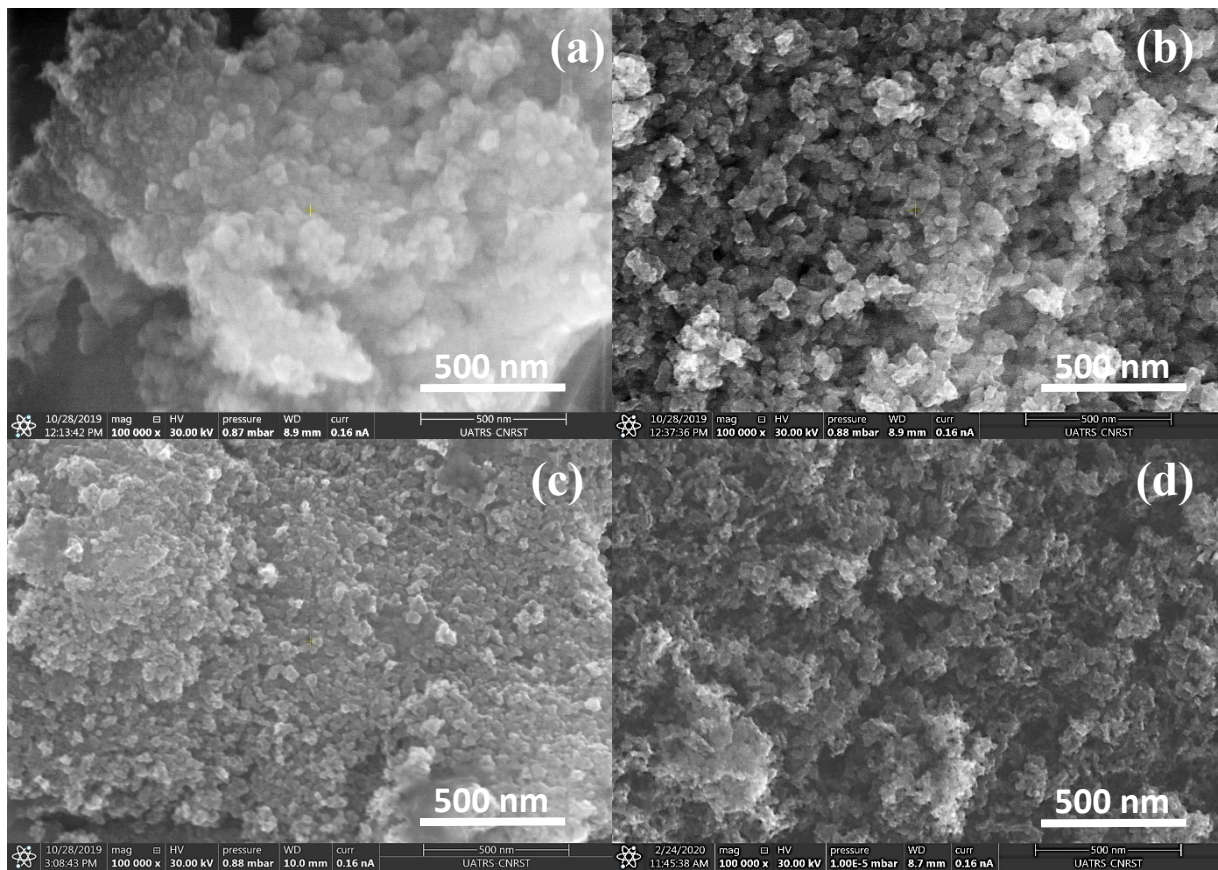


Fig. S4. SEM images of: (a) $\text{TiO}_2\text{-X}_{\text{cmc}}$, (b) $\text{TiO}_2\text{-C}_{\text{cmc}}$, (c) $\text{TiO}_2\text{-X}_{\text{alg}}$ and (d) $\text{TiO}_2\text{-C}_{\text{alg}}$

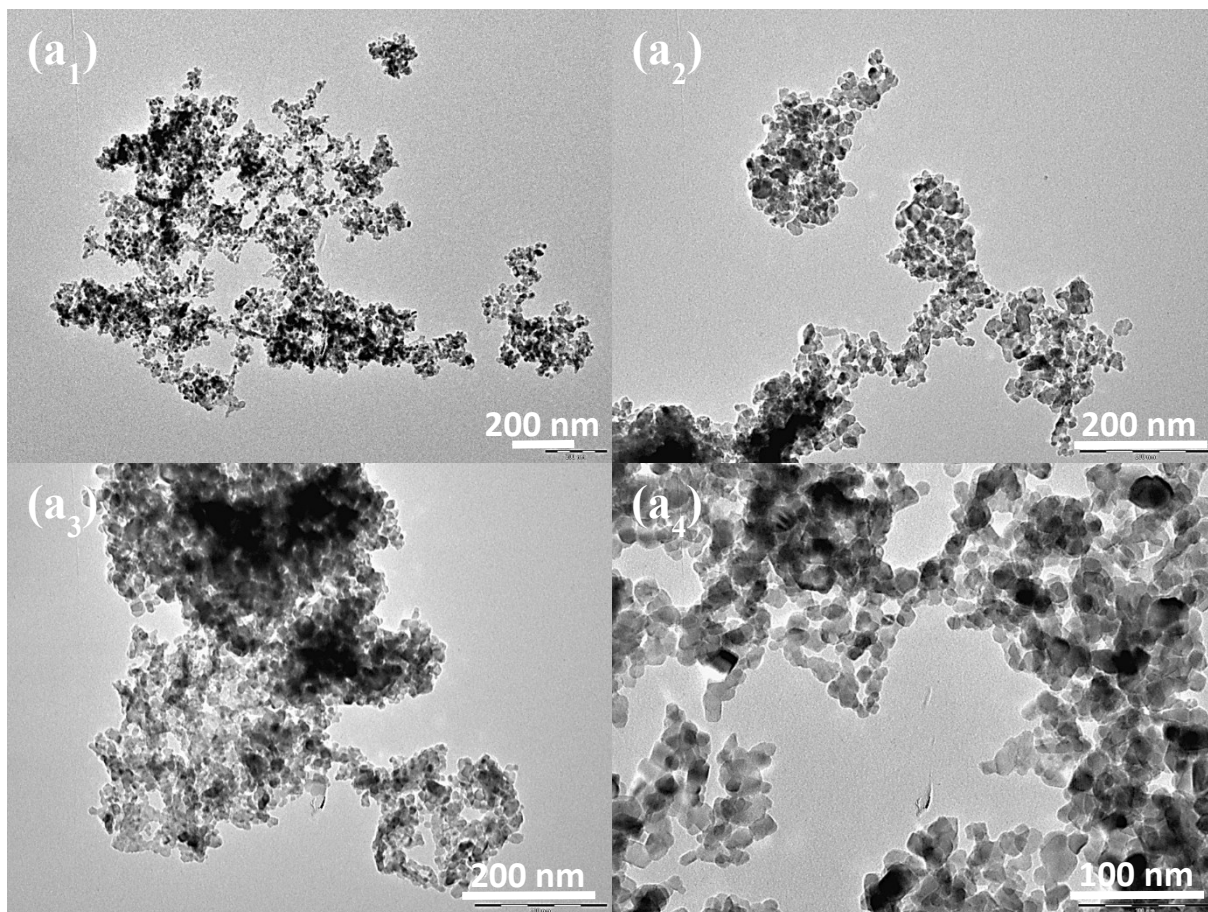


Fig. S5. TEM images of $\text{TiO}_2\text{-C}_{\text{alg}}$ at different magnifications

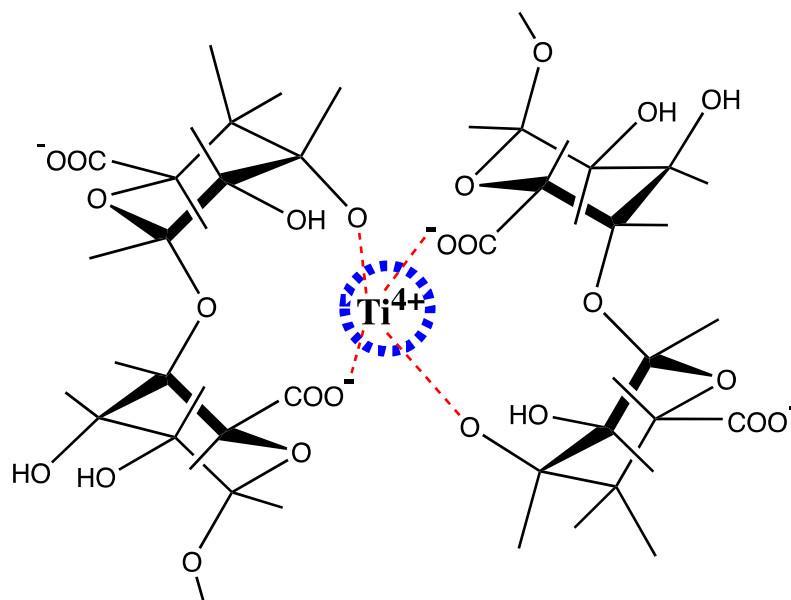


Fig. S6. Ti^{4+} cation chelation by alginate gel

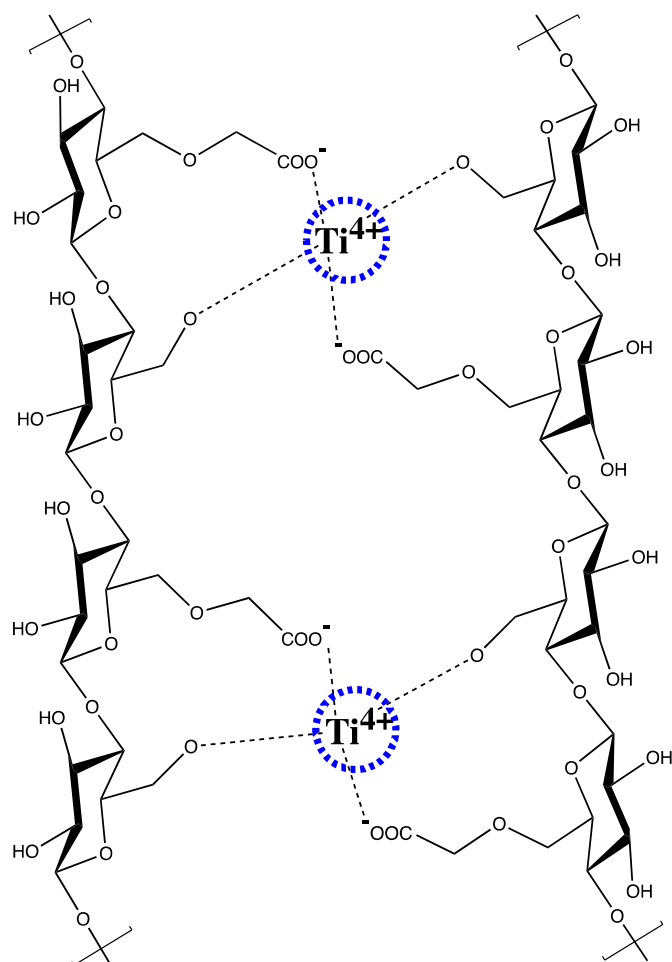


Fig. S7. Ti^{4+} cation chelation by CMC gel