

Biochar Nanoparticles over TiO₂ Nanotube Arrays: A Green Co-Catalyst to Boost the Photocatalytic Degradation of Organic Pollutants

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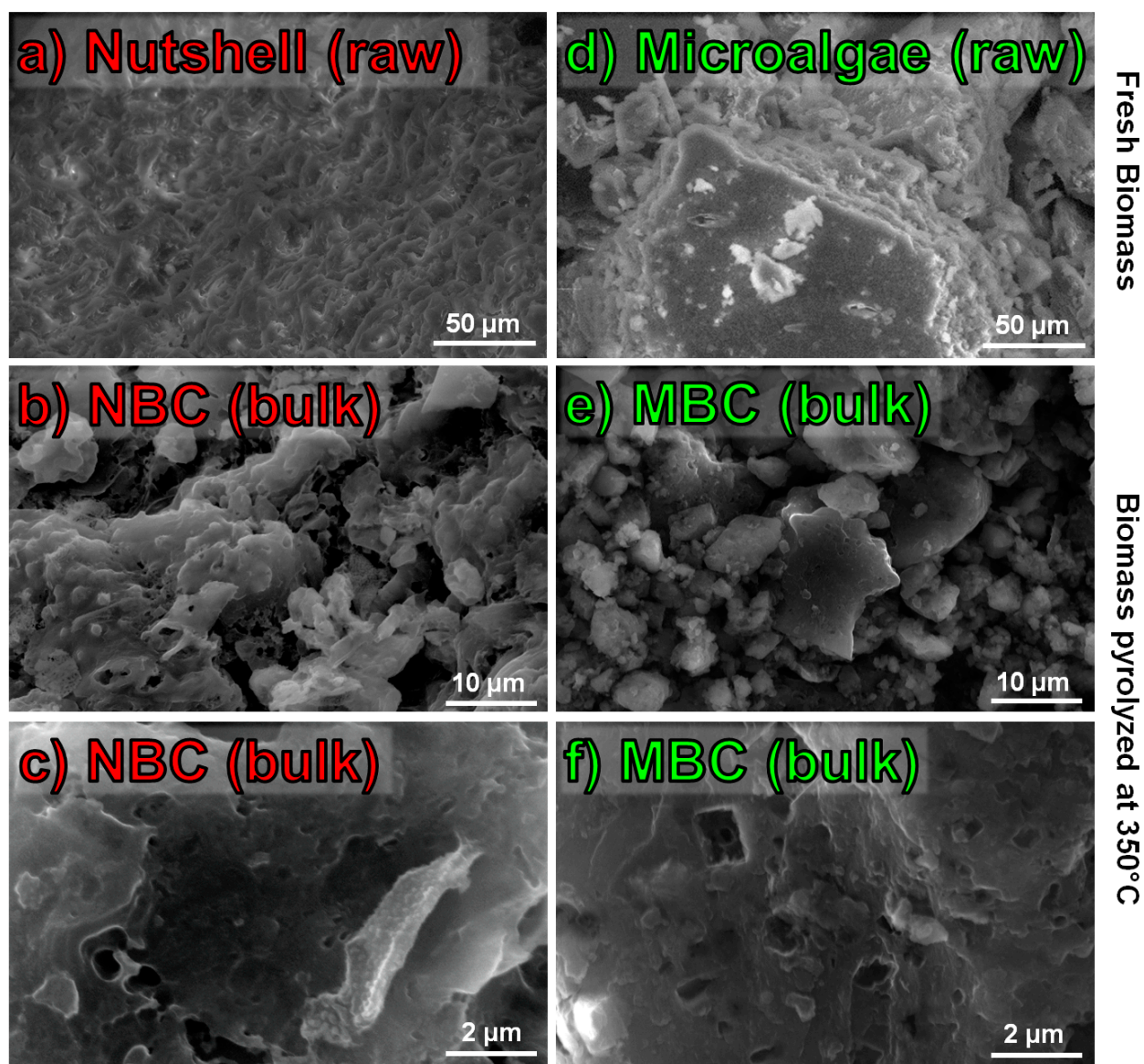


Figure S1. SEM images of untreated (a) nutshell and (d) microalgae. SEM images of bulk (b,c) NBC and (e,f) MBC produced by pyrolysis at 350°C.

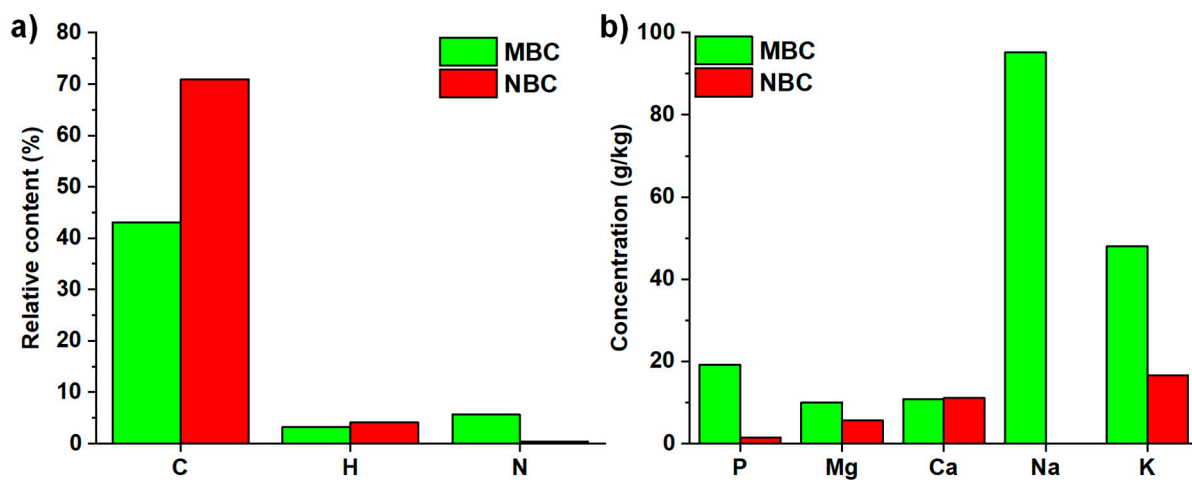


Figure S2. Elemental composition of MBC and NBC: (a) carbon, hydrogen, and nitrogen relative content and (b) phosphorous, magnesium, calcium, sodium, and potassium concentration in MBC and NBC.

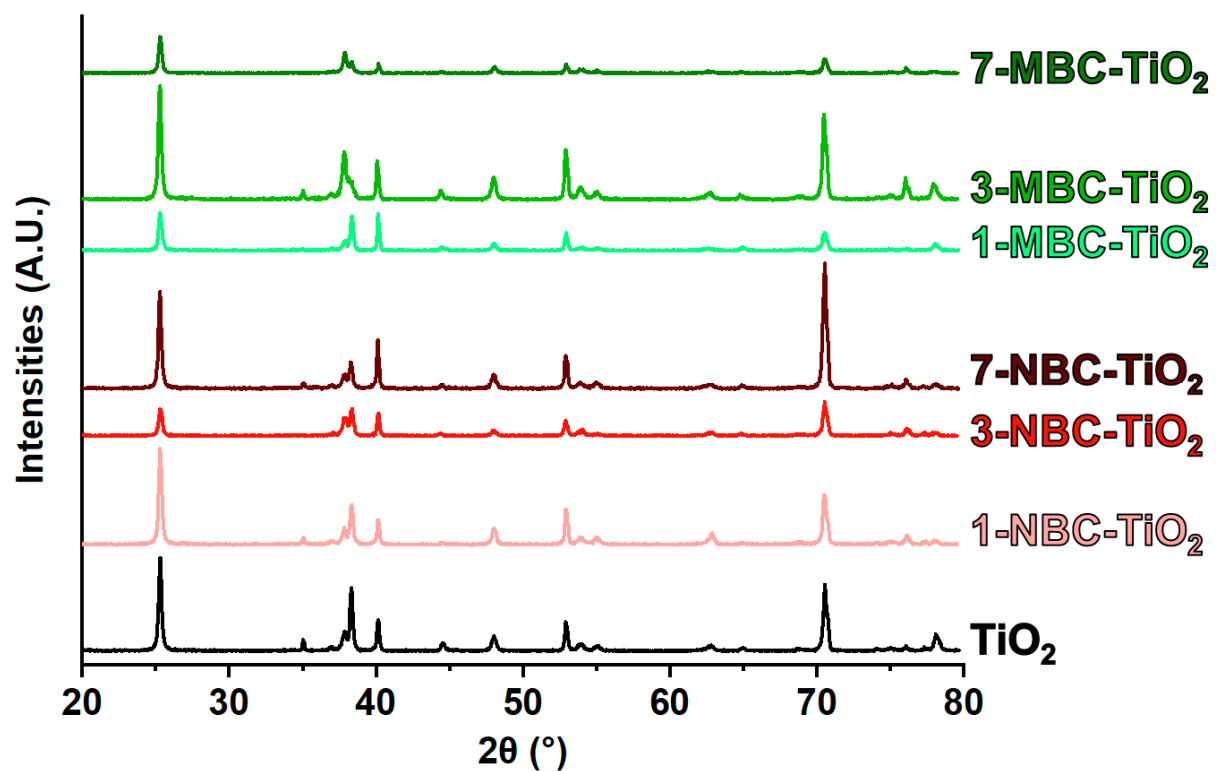


Figure S3. XRD pattern of crystalline TiO₂ nanotubes (black line), 1-, 3-, and 7-MBC-TiO₂ (green lines) and 1-, 3-, and 7-NBC-TiO₂ (red lines).

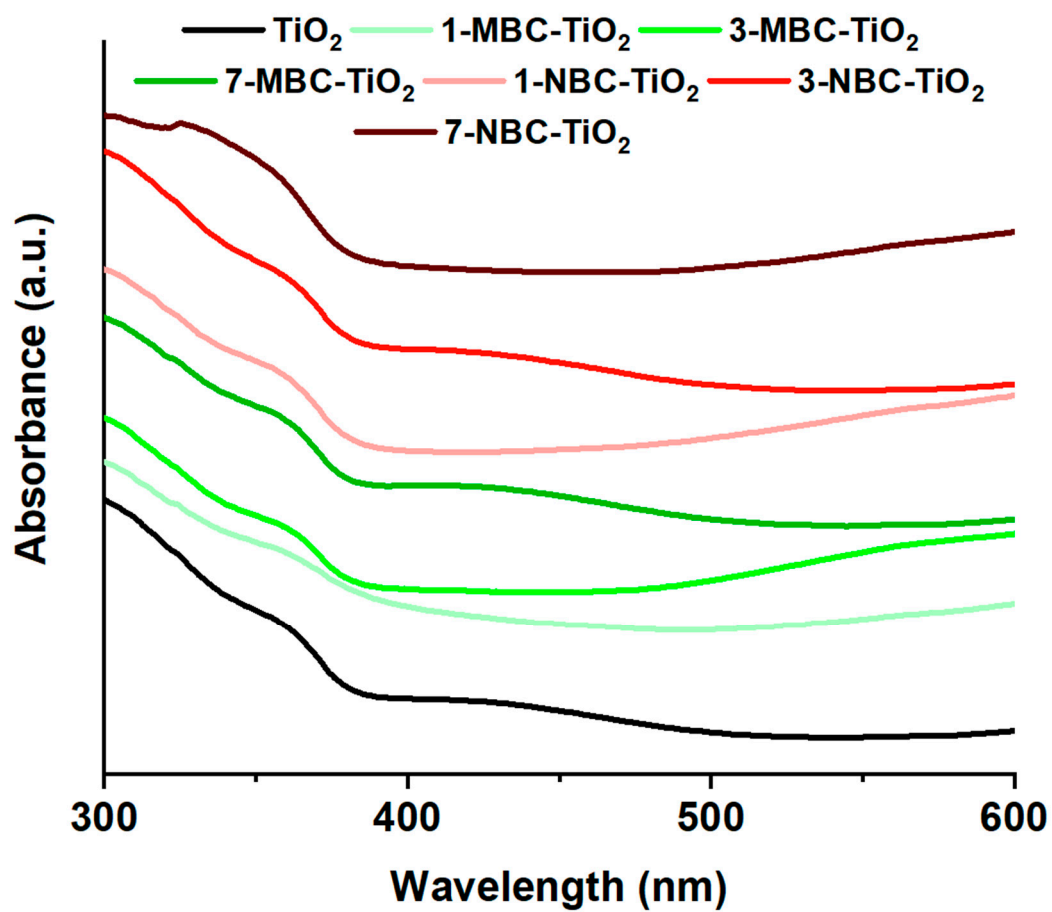


Figure S4. DR-UV spectra of bare TiO₂ nanotubes (black line), 1-, 3-, and 7-MBC-TiO₂ (green lines) and 1-, 3-, and 7-NBC-TiO₂ (red lines).