

Supporting information for

Synthesis of Ni@SiC/CNFs composite and its Microwave-Induced Catalytic Activity

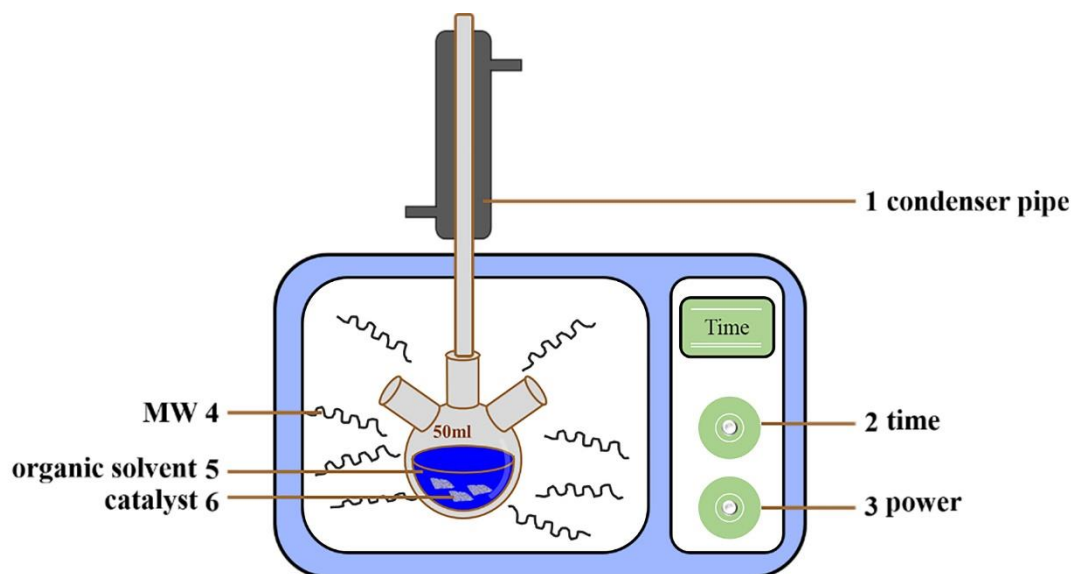


Figure S1 Diagram of microwave-assisted catalytic reactor.

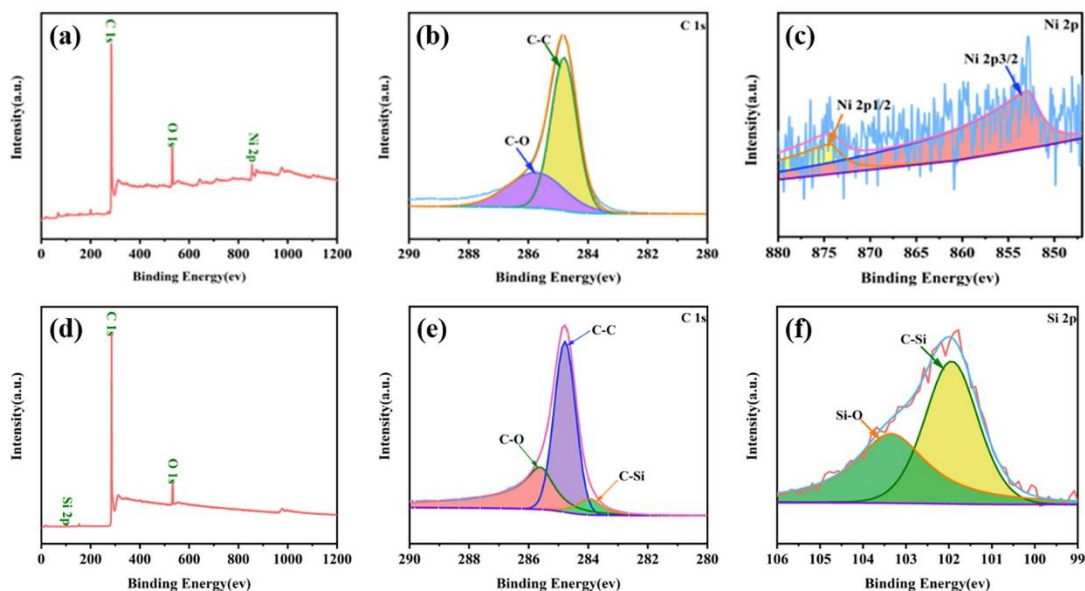


Figure S2 XPS of the NC and SC composite materials: (a) full spectrum, (b) C 1s, and (c) Ni 2p for the NC composite materials, respectively; (d) full spectrum, (e) C 1s, and (f) Si 2p for the SC composite materials, respectively.

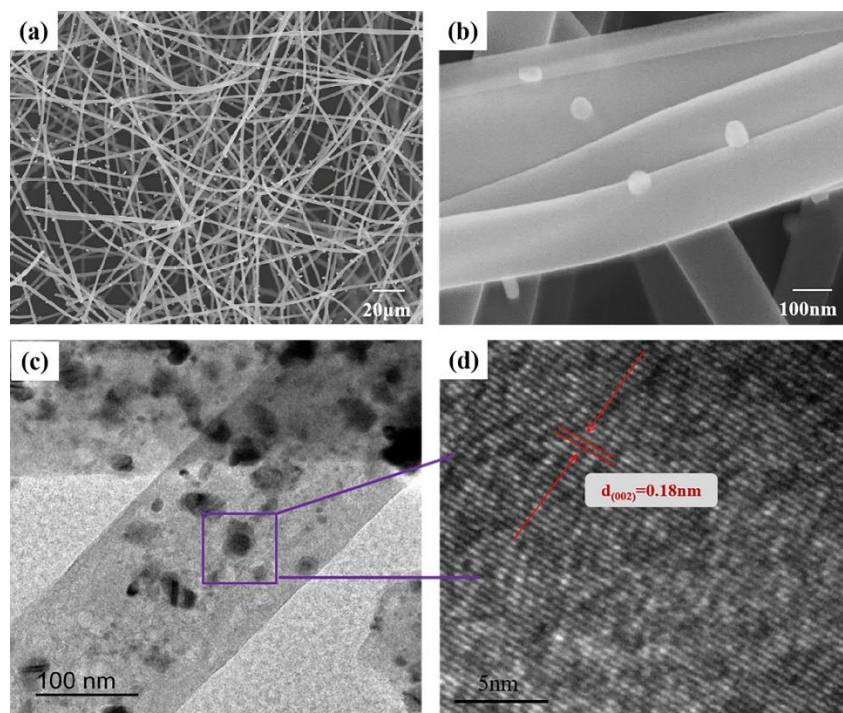


Figure S3. (a-b) SEM images of NC catalyst at different magnifications; (c) TEM images of NC catalyst; (d) HRTEM image.

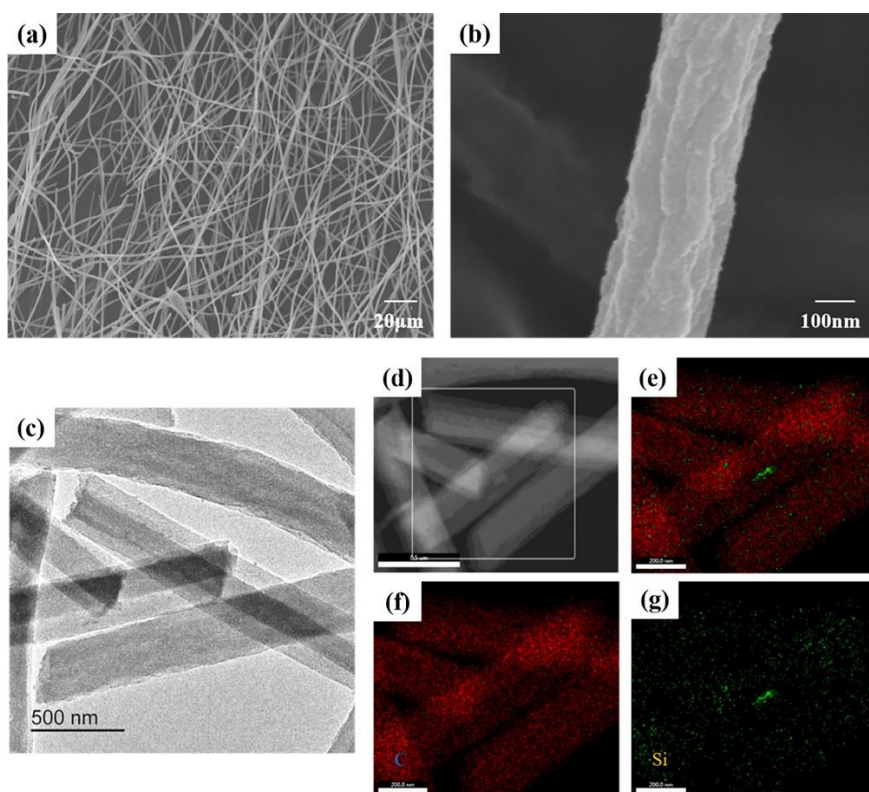


Figure S4. (a-b) SEM images of SC catalyst at different magnifications; (c) TEM images of NSC catalyst; (f) HRTEM image; (d-g) HAADF-STEM image and corresponding elemental mappings of (f) C, (g) SiC.

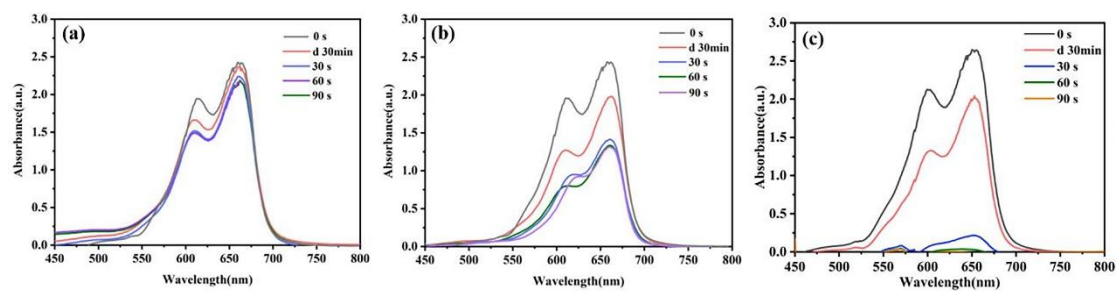


Figure S5. Ultraviolet absorption spectra of MB by different composites: (a) C/Ni, (b) C/SiC, (c) Ni@SiC/CNFs.