Supporting information

Valorisation of Citrus Waste for Sustainable Synthesis of Carbon-Supported Copper Nanoparticles active in CO₂ Electroreduction

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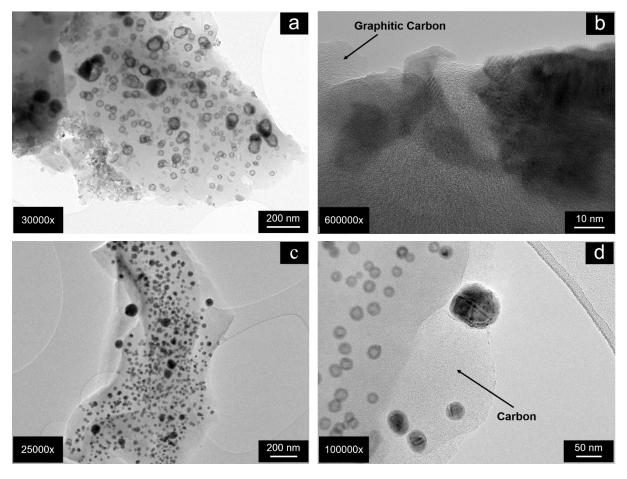


Figure S1: HR-TEM micrographs of orange peel-derived systems: CuCl₂ (a, b) and Cu(NO₃)2 (c, d).

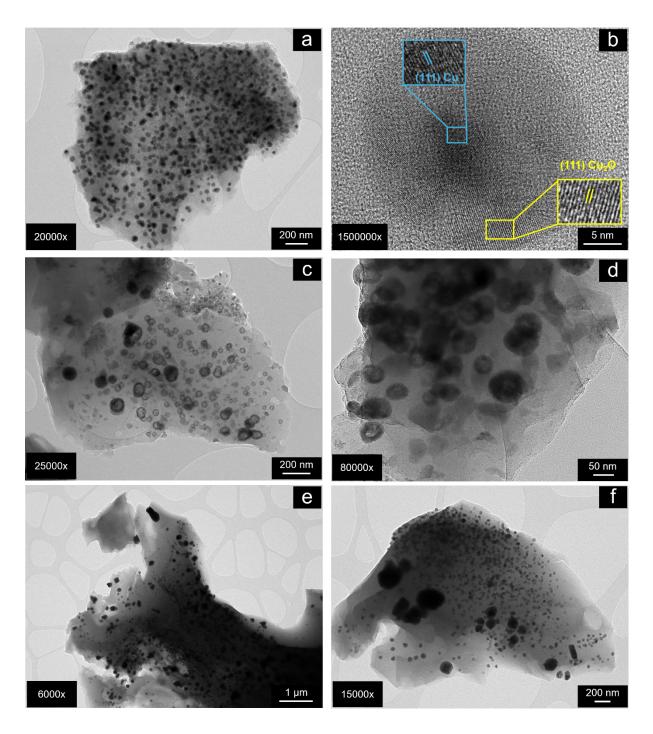


Figure S2: HR-TEM micrographs of lemon peel-derived systems: CuSO₄ (a,b), CuCl₂ (c,d), and Cu(NO₃)₂ (e,f).

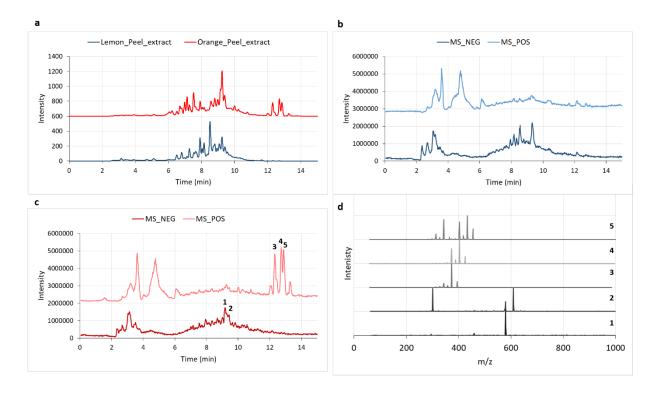


Figure S3: a) LC-UV (320 nm) of lemon peel and orange peel extracts as indicated. b) MS in positive (MS_POS) and negative mode (MS_NEG) for lemon peel extract; c) MS_POS and MS_NEG for orange peel extract; d) Fragmentation patterns for peaks in c as indicated. Retention times: Peak 1 at 9.2 mins MS-1; Peak 2 at 9.4 mins MS-2; Peak 3 at 12.32 mins MS-3; Peak 4 at 12.72 mins MS-4; Peak 5 at 12.88 mins MS-5. MS-1 main fragment (Mw 580); MS-2 main fragment (Mw 610); MS-3 main fragment (Mw 372); MS-4 main fragment (Mw 402); MS-5 main fragment (Mw 432).