

Electronic Supplementary data

Versatility of magnetic Fe₃O₄ supported copper nanocomposite catalyst towards reduction of carbonyl and nitro compound

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SEM-EDX mapping analysis: The SEM images (Fig S1a) showed an aggregate morphological structure of Fe₃O₄-Cu which would be due to magnetic interaction of Fe₃O₄-Cu nanoparticles. The elemental compositions and spatial distributions of various elements in Fe₃O₄-Cu sample were determined from the EDX pattern as depicted in Fig. S1(b). The characteristic peaks of C, O, Fe and Cu confirmed that the Fe₃O₄-Cu sample is composed of C, O, Fe and Cu elements. Furthermore, the EDS mapping analysis [Fig. S1(c)] demonstrates the uniform dispersion of all elements in the Fe₃O₄-Cu nanocomposite.

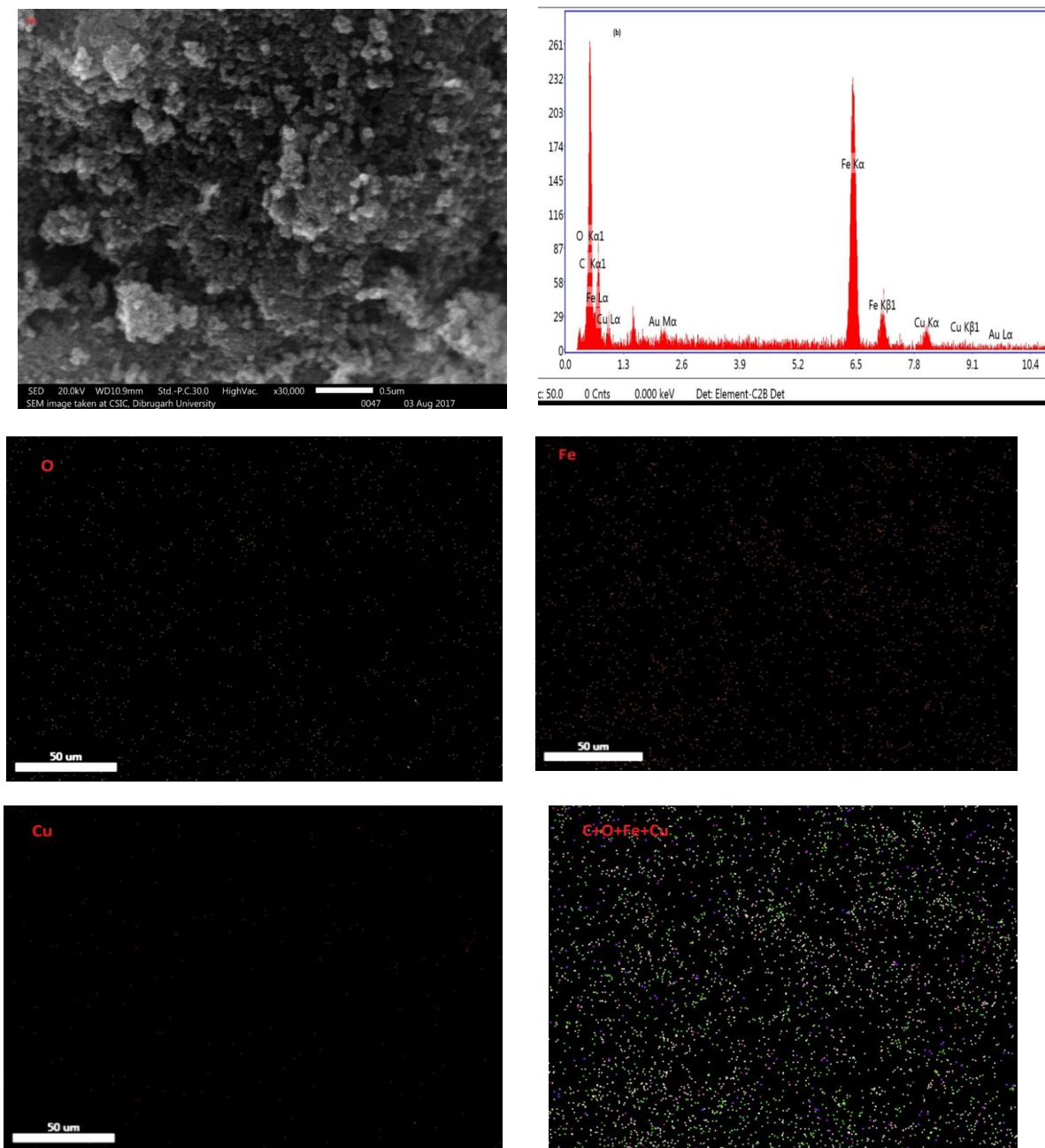


Fig. 1 — EDX mapping of C, O, Fe, Cu in Fe₃O₄-Cu nanocomposite