

Synthesis and Characterization of Green Zinc-Metal-Pillared Bentonite Mediated Curcumin Extract (Zn@CN/BE) as an Enhanced Antioxidant and Anti-Diabetes Agent

Stefano Bellucci ¹, Hassan Ahmed Rudayni ², Marwa H. Shemy ^{3,4}, Malak Aladwani ², Lina M. Alneghery ², Ahmed A. Allam ⁵ and Mostafa R. Abukhadra ^{4,6,*}

¹ INFN-Laboratori Nazionali di Frascati, Via E. Fermi 54, 00044 Frascati, Italy; stefano.bellucci@lnf.infn.it (S.B.)

² Department of Biology, College of Science, Imam Muhammad bin Saud Islamic University, Riyadh 11623, Saudi Arabia; HARUDAYNI@imamu.edu.sa (H.A.R.); Moaladwani@imamu.edu.sa (M.A.); imalneghery@imamu.edu.sa (L.M.A.)

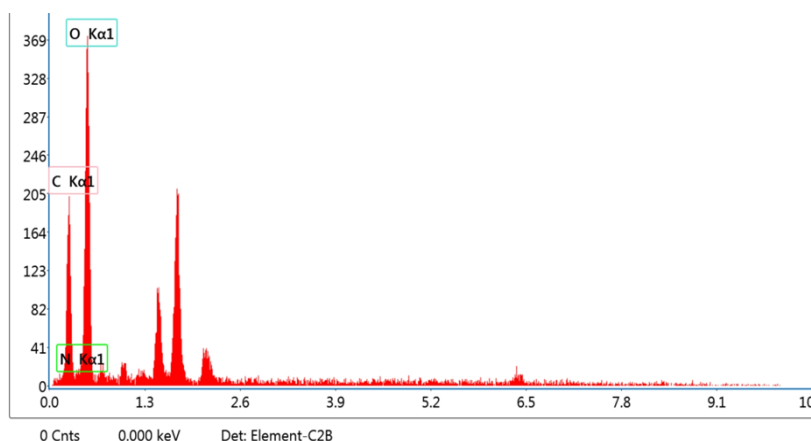
³ Chemistry Department, Faculty of Science, Beni-Suef University, Beni-Suef 65211, Egypt; marwa.h.shemy@gmail.com (M.H.S.)

⁴ Materials Technologies and Their Applications Lab, Geology Department, Faculty of Science, Beni-Suef University, Beni-Suef 65214, Egypt

⁵ Zoology Department, Faculty of Science, Beni-Suef University, Beni-Suef 62514, Egypt; Ahmed.aliahmed@science.bsu.edu.eg (A.A.A.)

⁶ Geology Department, Faculty of Science, Beni-Suef University, Beni-Suef 65214, Egypt; Abukhadra89@Science.bsu.edu.eg (M.R.A.)

* Correspondence: Abukhadra89@science.bsu.edu.eg (M.R.A.); stefano.bellucci@lnf.infn.it (S.B.)



FigureS1. EDX spectrum of the synthetic Zn@CN/BE composite