Abstract:
In this study, Cement composites was produced with, CEN reference sand, cement, water and waste paper. Waste paper was used as partial replacement as 0 - 0.5 ratios of sand weight which are tagged CK and WPCK, and the Cement: Sand ratio as 1: 3, was kept constant. Mix design was based on the standard of TS EN 196-1, standard. The Infrared spectra were recorded by accumulating 64 scans each in 4000-400cm-1range with a resolution of 4 cm-1 with KBr pellets at room temperature. The linear attenuation coefficients of composites were measured using the gamma spectrometer system containing NaI(Tl) detector. The measurements were performed at 1173 and 1332 keV which was obtained from 60Co radioactive sources. Keywords: Recycling of Waste Paper, cement mortar, attenuation of ?- rays, sustainability, Infrared Analysis