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A study on the photon interaction parameters of some meteorite samples

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The goal of this work is to research photon interaction parameters of four meteorite samples which have various elemental contents from the scientific literature. Mass attenuation coefficients, effective atomic number values, effective electron density values, coherent scattering cross sections, incoherent scattering cross sections, photoelectric absorption cross sections, pair production cross sections for atomic nucleus and pair production cross sections for atomic electrons of present meteorite samples were obtained theoretically using computer software in energy range from 1 keV to 100 GeV. Consequently, photon interaction parameters of four meteorite samples vary depending on the incident photon energy and elemental components of the meteorite samples.

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