14. Electromagnetic radiation of frequency 9.0×10^{14} Hz is incident on a clean, negatively charged metal surface.

The work function of the metal is 6.1×10^{-19} J.

There is no photoelectric emission from this metal caused by this radiation.

This is explained by the fact that

A photoemission can only occur from a positively charged metal surface

B the wavelength of the incident radiation is too short

C the frequency of the incident radiation is less than the threshold frequency of this metal

D the work function of the metal is less than the energy of the incident photons

E the number of photons per second incident on the surface of the metal is too low.