Consider two lasers: an Argon-ion laser emitting at 488 nm, and a Helium-Neon Laser emitting at 633 nm. The intensity of the two lasers are identical and measured to be 1 W/cm².

1. How many photons from each laser would be incident on one square cm every second?

2. Find the energy of a single photon at the two wavelengths of the lasers in both joules and electron volts.

3. Using \( p = E/c \), find the radiation pressure in terms of the intensity, \( I \).

4. If the energy of the photons from the Helium-Neon laser is just enough to liberate electrons from a material, what is the kinetic energy of electrons emitted when using the Argon-ion laser? Give your answer in electron volts.