

photon exposure, H_p

Photon irradiance, E_p , integrated over the time of irradiation for a beam incident from all upward directions. SI unit is m^{-2} .

Note 1: Mathematical definition: $H_p = \int_t E_p dt$. If the photon irradiance is constant over the time interval, $H_p = E_p t$.

Note 2: This term refers to a beam not scattered or reflected by the target or its surroundings. For a beam incident from all directions photon fluence ($H_{p,o}$, $F_{p,o}$) is an equivalent term.

Note 3: This quantity can be used on a chemical amount basis by dividing H_p by the Avogadro constant, the symbol then being $H_{n,p}$, the name “photon exposure, amount basis”, SI unit is mol m^{-2} ; common unit is einstein m^{-2} .

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