

photon exitance, M_p

Also contains definition of: specific photon emission

Synonym: photon emittance

Photon flux, number basis, q_p , emitted by an element of the surface containing the source point under consideration divided by the area S of that element. SI unit is $s^{-1} m^{-2}$.

Notes:

1. Mathematical definition: dq_p / dS . If q_p is constant over the surface area considered, $M_p = q_p / S$.
2. Formerly called photon emittance.
3. This quantity can be expressed on a chemical amount basis by dividing M_p by the Avogadro constant. In this case the symbol is $M_{n,p}$, the name 'photon exitance, amount basis', SI unit is $mol s^{-1} m^{-2}$; common unit is einstein $s^{-1} m^{-2}$.

Source:

PAC, 2007, 79, 293 (*Glossary of terms used in photochemistry, 3rd edition (IUPAC Recommendations 2006)*) on page 394