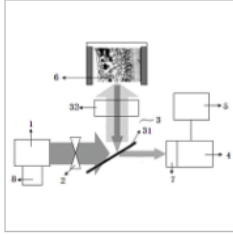


植物叶片横截面最大光化学量子效率测定装置及使用方法 专利 阅读公开文献

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摘要：本发明涉及一种植物叶片横截面最大光化学量子效率测定装置及使用方法，其特征在于，该测定装置包括显微镜、激发光源、斩波器、CCD图像采集装置和计算机；待测叶片放置在所述显微镜上，所述激发光源发出的光通过所述斩波器进入所述显微镜照射所述待测叶片的横截面，所述待测叶片横截面的叶绿素体吸收光产生叶绿素荧光，所述叶绿素荧光经所述显微镜出射并经所述CCD图像采集装置采集，所述CCD图像采集装置将采集的叶绿素荧光图像发送到所述计算机。本发明操作简单、测定可靠，对于植物生理、植物学、生态学等研究领域具有广泛的应用前景。

Abstract : The invention relates to a plant leaf cross section maximum photochemical quantum efficiency determinator and an application method. The determinator and the application method are characterized in that the determinator comprises a microscope, an excitation light source, a chopper, a CCD image collector and a computer; a leaf to be measured is placed on the microscope, light emitted by the excitation light source enters the microscope through the chopper to irradiate the cross section of the leaf to be measured, chlorophyllite in the cross section of the leaf to be measured absorbs the light to generate chlorophyll fluorescence, the chlorophyll fluorescence is emitted by the microscope and collected by the CCD image collector, the CCD image collector sends an image of the collected chlorophyll fluorescence to the computer. Operation is easy, determination is reliable, and the determinator and the application method have wide application prospects in the research fields of plant physiology, botany, ecology and the like.

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