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purpose soil nutrients such as nitrogen n phosphorus p and potassium k play a vital role in plant growth it is crucial to apply the right amount of nutrients based on crop needs and soil conditions excessive amounts of fertilizer overfertilization lead to environmental pollution nutrients runoff financial losses and imbalances that may harm plants on the other hand under

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the geometry of radiation measurement two things are fundamental 1 there is no power in a parallel beam power depends on divergence into a finite solid angle 2 there is no power from a point source

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multimodal measurements at synchroton based x ray microscopes offer a way to assess spatial variations in performance composition and crystal structure of solar cells in this work the authors expand the capability with a setup that adds x ray excited optical luminescence to unveil spatially resolved information about the electronic band structure and defect distribution in perovskite solar

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