



BUHLE POWER

Nano solar light lighting





Overview

Can nano light conversion agents guide plant cultivation?

With the flourishing development of nanotechnology, nano light conversion agents have been demonstrated to be alternative tools to traditional artificial light sources. Therefore, light conversion agents-guided plant cultivation is a promising strategy in the development of sustainable systems.

What are the advantages of nanoscale fluorescent lighting?

Compared with conventional artificial lighting sources, the light-converting techniques of nanoscale fluorescent materials have unparalleled advantages such as high conversion efficiency, stronger light harvesting, good photostability, and superior biocompatibility (Liu et al., 2020; Huang et al., 2023a; Zhang et al., 2023b; Wu et al., 2023).

Can nano LCAs be used as light fertilizers?

Recent investigations have shown that spraying LCAs on hydroponically grown plants can increase yield and promote nutrition compound production (Li et al., 2021). Table 2 summarises recent advances in the application of nano LCAs as light fertilizers.

What is a nano LCA?

Classification of LCAs The advancement of light conversion-enhanced photosynthesis has stimulated extensive research in the development of various nano LCAs, including rare earth-doped nanomaterials, quantum dots, carbon-based nanomaterials, reticular materials, and conjugated polymers.



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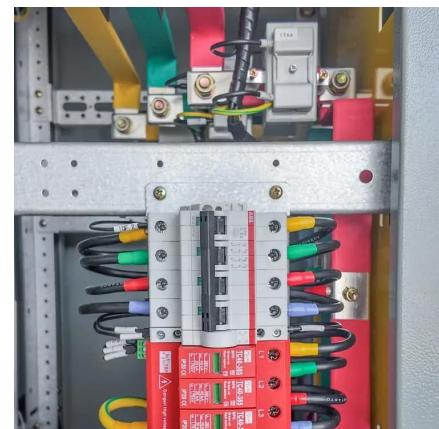
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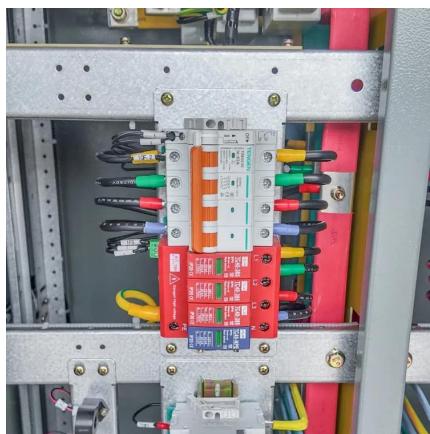
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