PROF LAM YENG MING

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Sustainable; Agriculture; Nanostructured; Materials; Water

My research advances the understanding and application of nanostructured functional materials to build a sustainable and climate-resilient environment. My team develops innovative materials for sustainable agriculture and land remediation, focusing on transforming semi-arid and degraded areas into productive landscapes. With only 10% of global land being arable and 3% of the world's water being fresh, we are addressing the urgent need for more efficient and sustainable food production methods. One of innovation, RetenSol-G has shown the ability to convert sandy substrates into fertile soils while cutting water use by at least 50%. This technology is currently being tested in Morocco and across the ASEAN region with promising results. Our team is developing more transformative solutions to improve soil productivity, water efficiency, and sustainable agriculture.

Potential Areas for Collaboration

- Water, Nutrient, Good Bacteria Delivery
- Land Remediation
- Climate Resilient Solutions
