

EES Catalysis

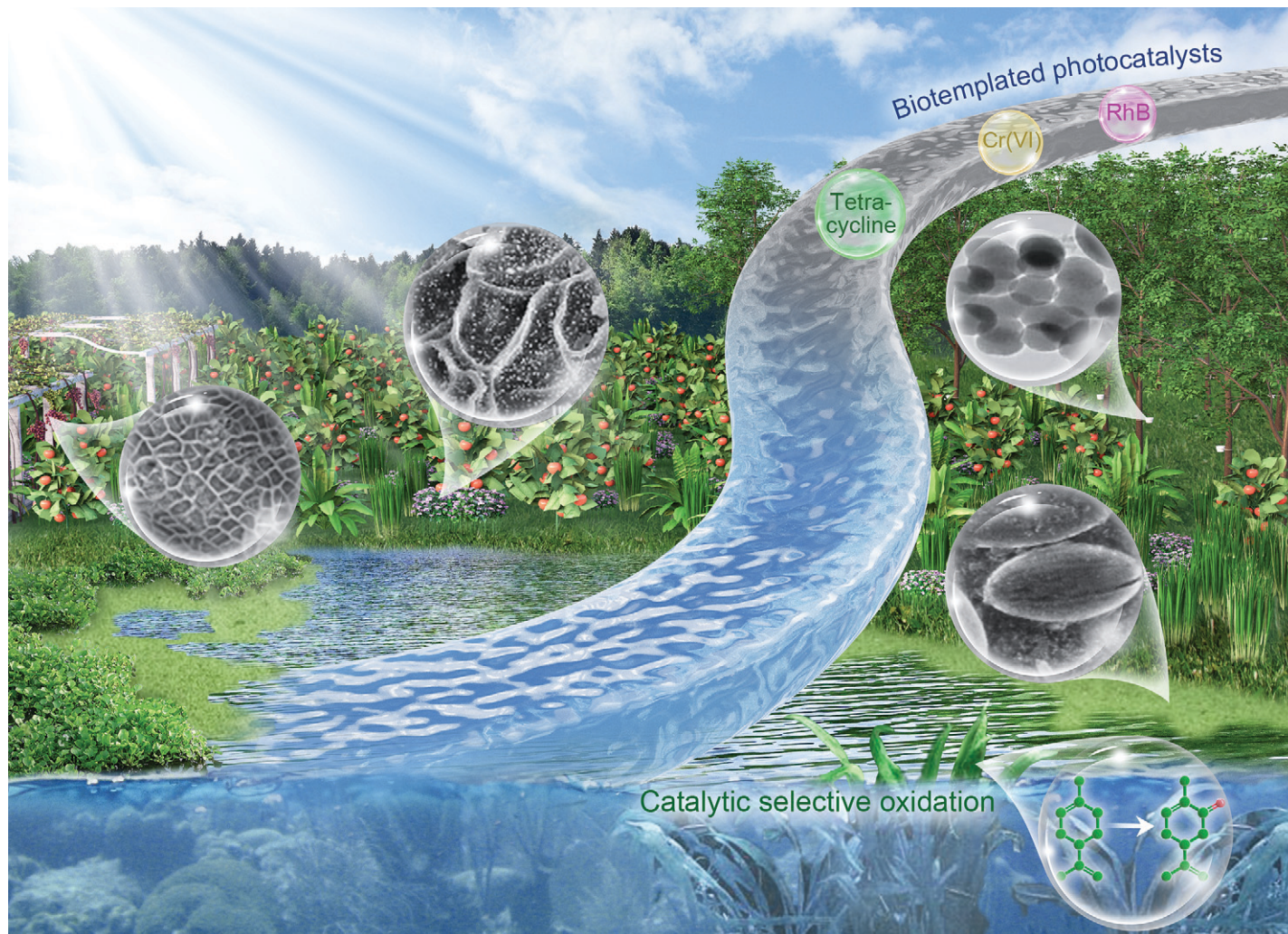
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Biotemplated heterostructure materials: opportunities for the elaboration of new photocatalysts and selective-oxidation catalysts

The hierarchical porosity and structures of a catalyst are becoming increasingly important in the design of catalysts. Unlike conventional templates, biotemplates are a new source of inspiration for designing and fabricating that possess potent applications in catalysis because they are not only energy-conserving and environmentally friendly, but also readily available at low costs and on a large scale. We summarise the recent advances in the synthesis of nano/microstructures using biotemplates obtained from various plants. Their applications in photocatalysis and very limited catalytic selective oxidations have also been highlighted.

As featured in:



See Jiaqiang Wang *et al.*,
Catal. Sci. Technol., 2024, **14**, 10.