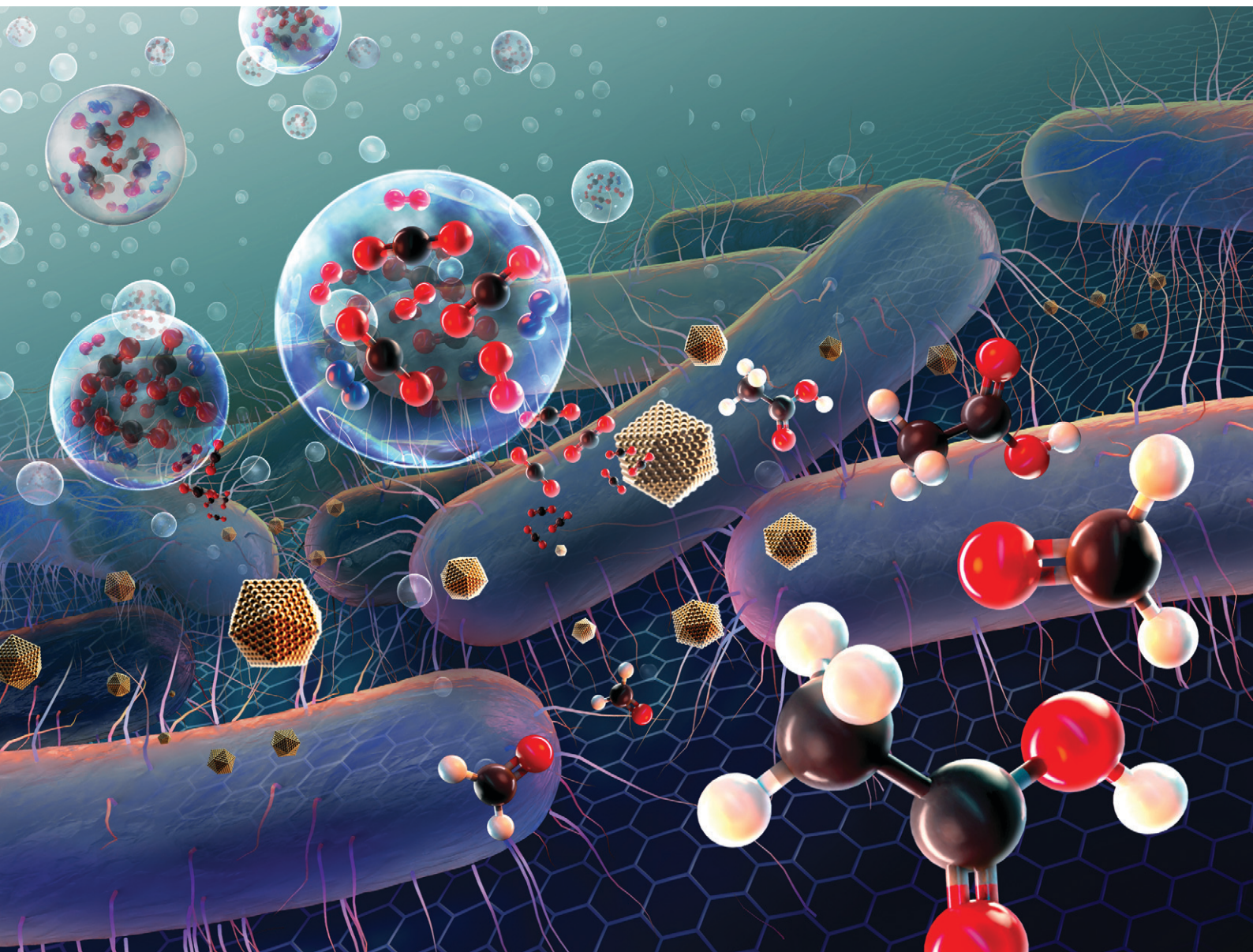


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## PERSPECTIVE

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Electrified CO<sub>2</sub> valorization in emerging nanotechnologies: a technical analysis of gas feedstock purity and nanomaterials in electrocatalytic and bio-electrocatalytic CO<sub>2</sub> conversion