

# EES Catalysis

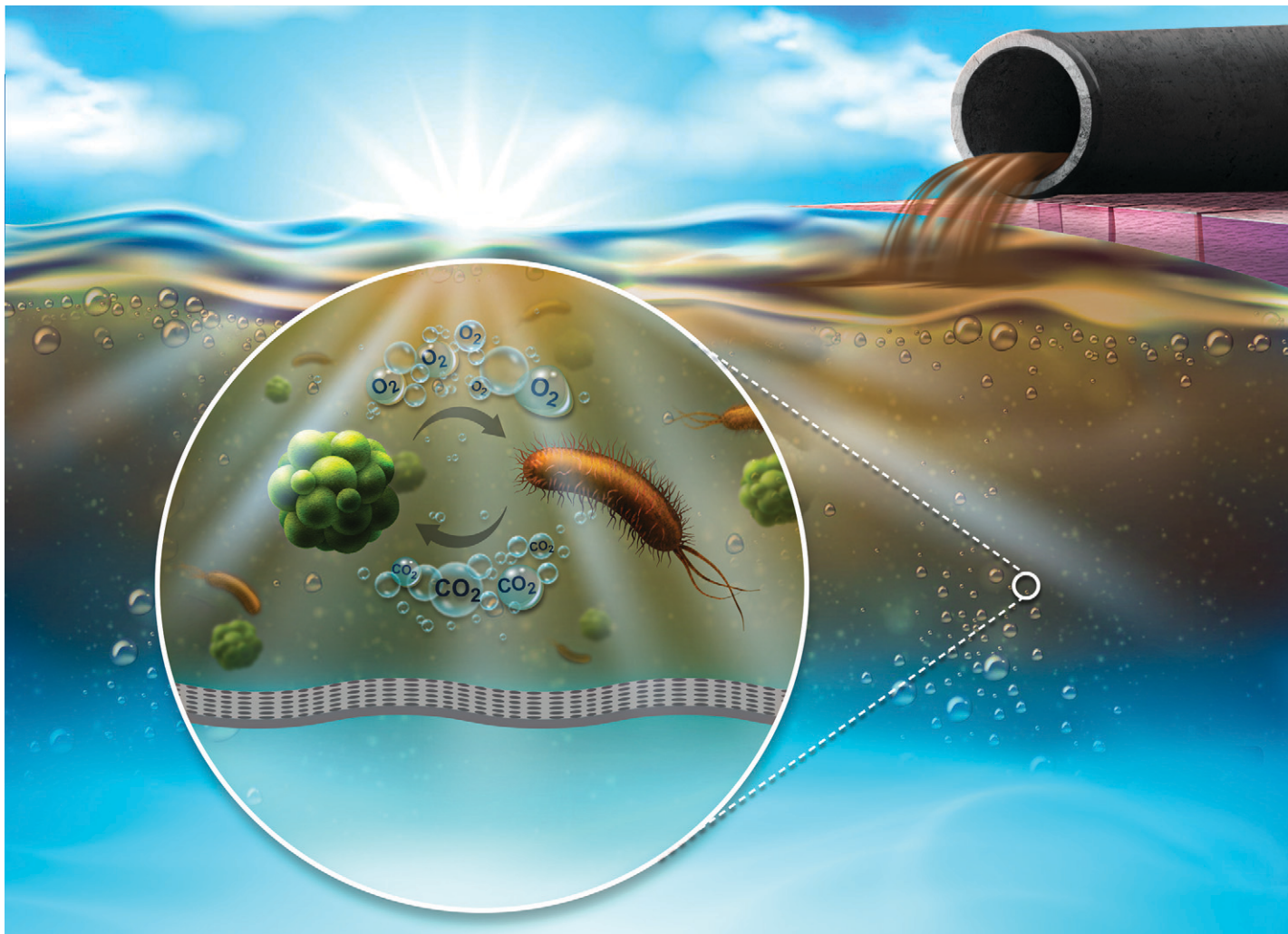
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**Fundamental questions  
Elemental answers**



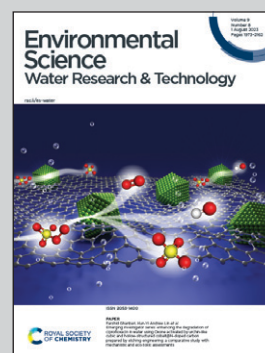
**Showcasing the research by Hana Lafi, Umed Panu and Baoqiang Liao from Lakehead University in Canada.**

Effect of the organic carbon to nutrient (N and P) ratio on the biological performance of a microalgal-bacterial membrane photobioreactor

This paper provides new insights into the effect of chemical oxygen demand (COD) to nitrogen (N) ratios on the biological performance of a novel microalgal-bacterial membrane photobioreactor system for removing total nitrogen and phosphorous simultaneously over a long-term period.

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**As featured in:**



See Baoqiang Liao *et al.*,  
*Environ. Sci.: Water Res. Technol.*,  
2023, 9, 2021.