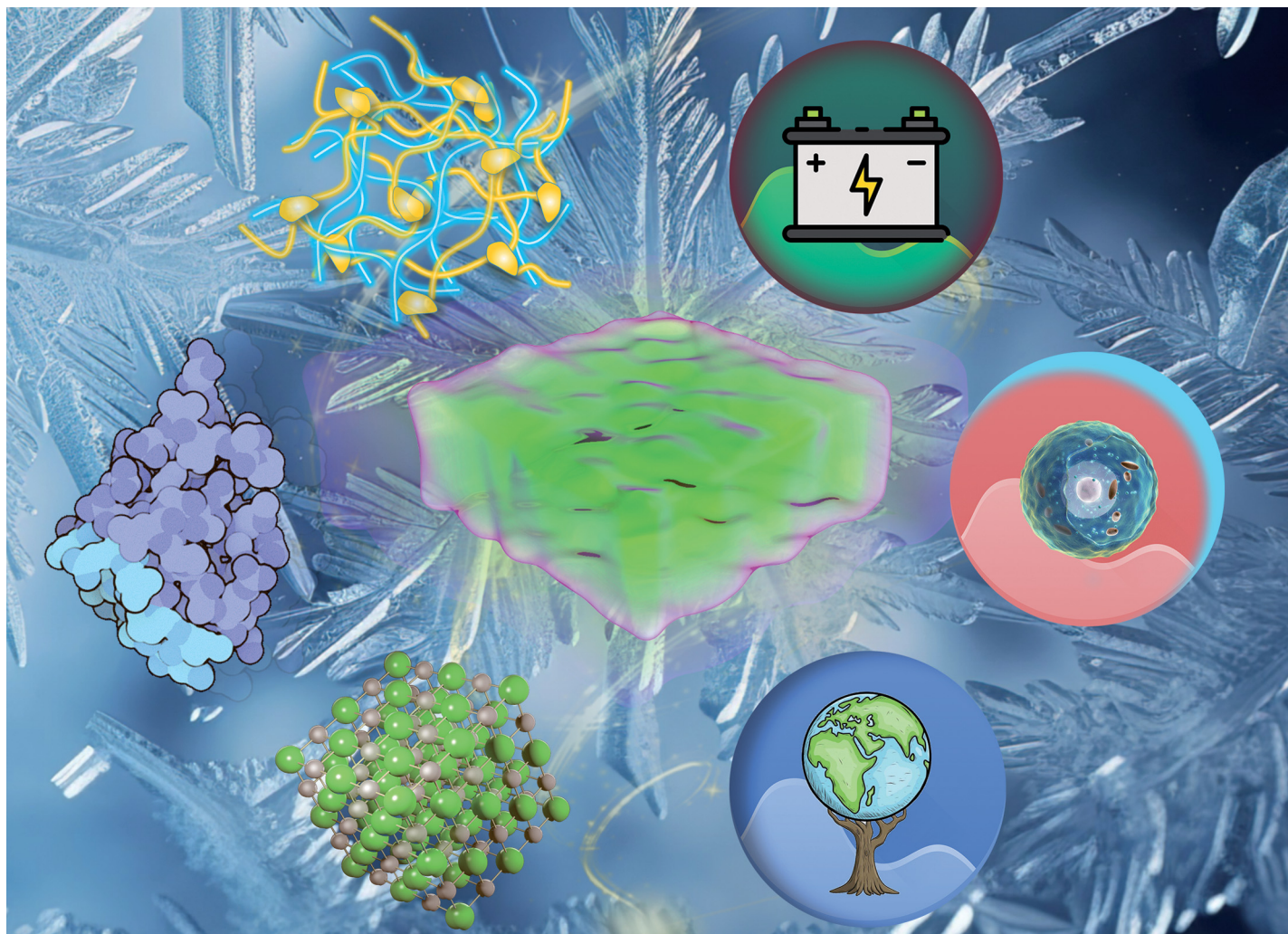


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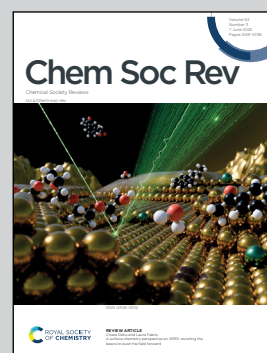
Showcasing research from Professor Jie Zheng's laboratory, Dept. of Chemical, Biomolecular, and Corrosion Engineering, University of Akron, OH, USA

Antifreezing hydrogels: from mechanisms and strategies to applications

Antifreezing hydrogels offer a promising solution for functional performance in subzero environments. This review highlights their design strategies, antifreezing mechanisms, and emerging applications, while outlining future directions integrating machine learning and simulations for next-generation hydrogel development.

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