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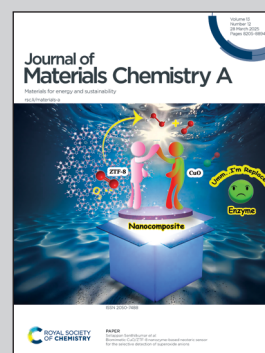
Showcasing rational electrolyte design via precise descriptors
 from Professor Jijian Xu's research group, Department of
 Chemistry, City University of Hong Kong, Hong Kong, China.

Enabling rational electrolyte design for lithium batteries
 through precise descriptors: progress and future perspectives

Electrolytes determine the overall performance through ion transport and interfacial kinetics. Rationally designing electrolytes to achieve improved performance has been emphasized in the context of revolutionary development in batteries. Descriptors that precisely capture the physicochemical properties of electrolyte components can significantly boost electrolyte design for high-performance batteries. The cover image was designed by Linlin Chen.

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J. Mater. Chem. A, 2025, **13**, 8223.

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See Baichuan Cui and Jijian Xu,
J. Mater. Chem. A, 2025, **13**, 8223.