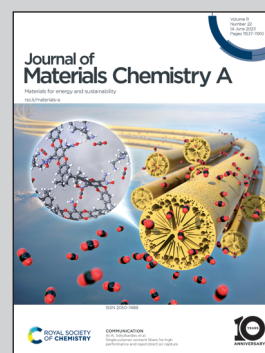


Showcasing research from Professor Guangyuan Zhou's laboratory, Division of Energy Materials (DNL 2201), Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian, China.

Hierarchical porous N/S-doped carbon with machine learning to predict advanced potassium-ion batteries

Potassium ion batteries (PIBs) have promising prospects for next-generation energy storage. Here, we report a strategy to construct hierarchical porous sponge-like carbon. The unique pore structure and N/S-doping offers a superior reversible capacity and long cycle life. Machine learning and density functional theory calculations were both used to clarify the relationships between structure parameters and performances.

As featured in:



See Guangyuan Zhou *et al.*,  
*J. Mater. Chem. A*, 2023, 11, 11696.