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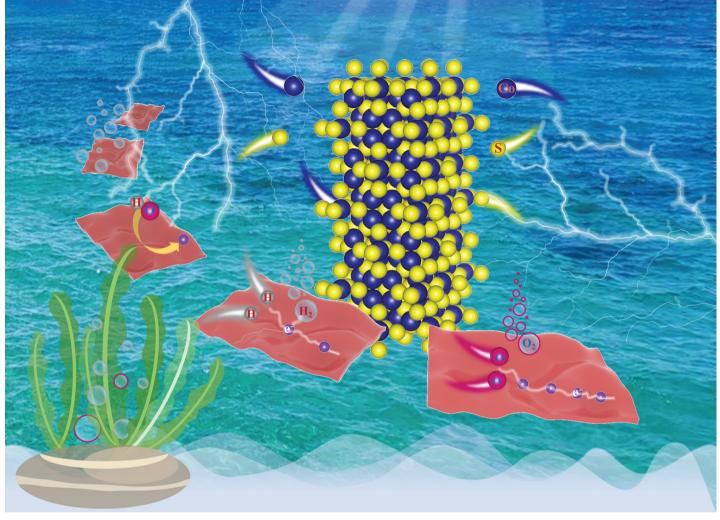


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Showcasing research from Professor Huixia Luo's laboratory, School of Materials Science and Engineering, Sun Yat-sen University, Guangzhou, China.

Synthesis of  $\text{Co}_9\text{S}_8$  nanoflakes by a one-step solvent-free solid-state method for multiple electrocatalytic reactions

The one-step solvent-free solid-state method is adopted to synthesize the  $Co_8S_9$ . Benefiting from the nanoflakes structure and improved electronic conductivity, the as-prepared S- $Co_8S_9$  yields superior electrochemical performance in acid HER, alkaline OER, and supercapacitors, which far exceeds the  $Co_8S_9$  by the traditional hydrothermal method and is comparable with the  $Co_8S_9$  coated on the conductive substrate.

