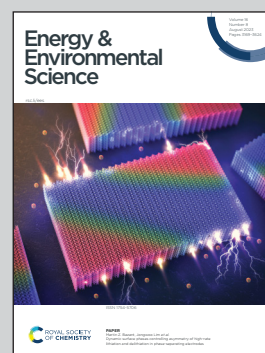


**Showcasing research from Professor Wei Zhou and Zongping Shao's laboratory, State Key Laboratory of Materials-Oriented Chemical Engineering, College of Chemical Engineering, Nanjing Tech University, Nanjing, China.**

Tailoring the surface cation configuration of Ruddlesden-Popper perovskites for controllable water oxidation performance

This work adopts a facile strategy, in which we remove surface-enriched inactive La elements from  $\text{La}_2\text{NiO}_4$  while forming Ni-Fe pairs. Benefiting from the optimized surface cation configuration, the surface tailored catalyst with a surface  $(\text{Ni} + \text{Fe})/\text{La}$  ratio close to unity exhibits exceptional water oxidation performance in both setups of rotating disk electrodes and membrane electrode assemblies. Our approach offers an alternative to the rational design of catalysts used in the energy, environmental, and other fields where the surface matters.

### As featured in:



See Gao Chen, Wei Zhou, Zongping Shao *et al.*, *Energy Environ. Sci.*, 2023, **16**, 3331.