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IN THIS ISSUE

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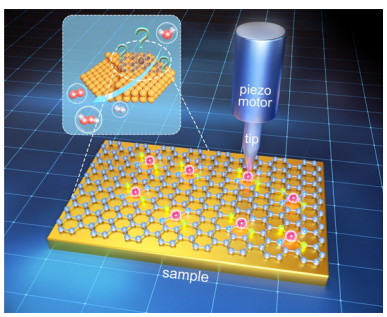
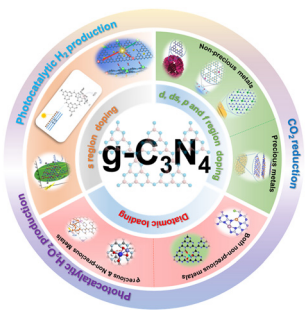
Cover
See Shaotang Song, Bin Liu, Chenliang Su *et al.*, pp. 794–809. Image reproduced by permission of Shaotang Song, Bin Liu, Chenliang Su *et al.* from *EES Catal.*, 2023, **1**, 794.

Inside cover
See Rebecca K. Pittkowski, Kirsten M. Ø. Jensen, Matthias Arenz *et al.*, pp. 950–960. Image reproduced by permission of Rebecca K. Pittkowski from *EES Catal.*, 2023, **1**, 950.

REVIEWS





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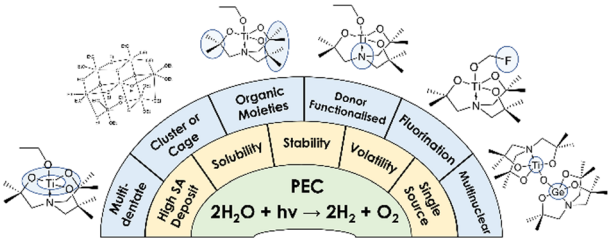
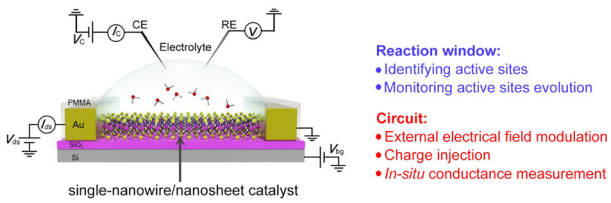
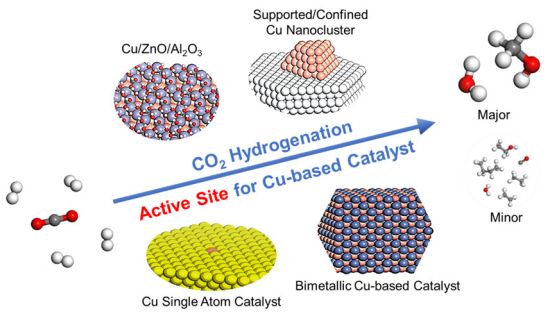
REVIEWS





PERSPECTIVES



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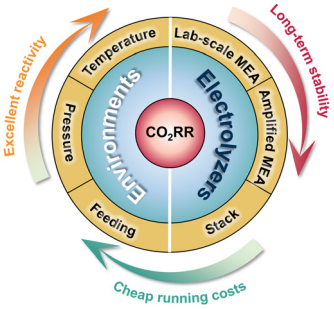
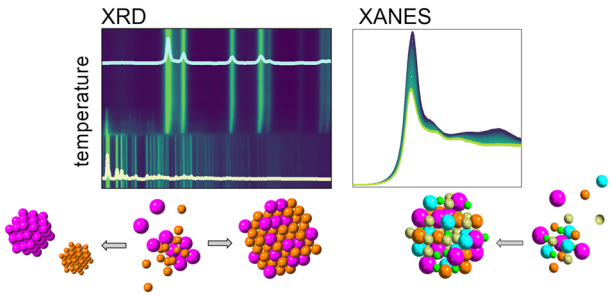


Advances and challenges in scalable carbon dioxide electrolysis

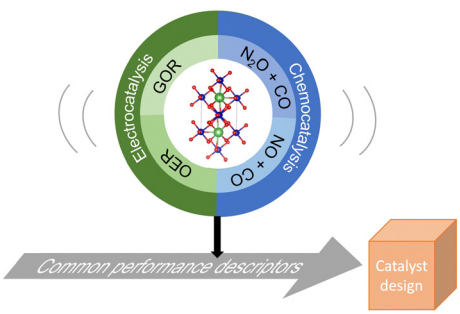
Ji Wei Sun, Huai Qin Fu, Peng Fei Liu, Aiping Chen, Porun Liu, Hua Gui Yang* and Huijun Zhao*

PAPERS



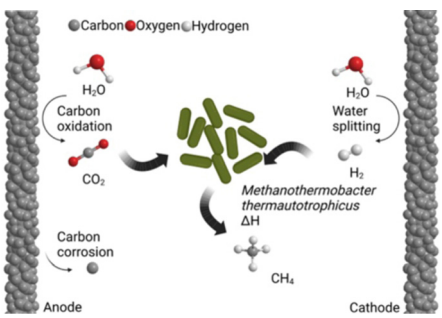
The more the better: on the formation of single-phase high entropy alloy nanoparticles as catalysts for the oxygen reduction reaction

Rebecca K. Pittkowski,* Christian M. Clausen, Qinyi Chen, Dragos Stoian, Wouter van Beek, Jan Bucher, Rahel L. Welten, Nicolas Schlegel, Jette K. Mathiesen, Tobias M. Nielsen, Jia Du, Asger W. Rosenkranz, Espen D. Bøjesen, Jan Rossmeisl, Kirsten M. Ø. Jensen* and Matthias Arenz*



Elucidating the validity of electronic characteristics of transition metal perovskites as descriptors bridging electro- and chemocatalysis

Sonja D. Mürtz, Johannes Simböck, Feng Zeng, Mahnaz Ghiasi, Simon Schönebaum, Ulrich Simon, Frank M. F. de Groot and Regina Palkovits*



Carbon oxidation with sacrificial anodes to inhibit O_2 evolution in membrane-less bioelectrochemical systems for microbial electrosynthesis

Nils Rohbohm, Tianran Sun, Ramiro Blasco-Gómez, James M. Byrne, Andreas Kappler and Largus T. Angenent*

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