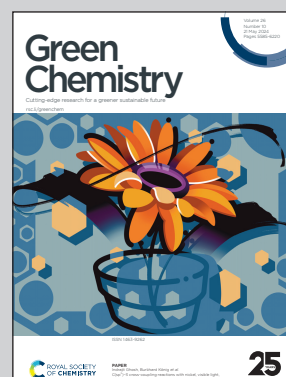


Showcasing research from Professor Waldvogel's laboratory, Max-Planck-Institute for Chemical Energy Conversion, Germany.

*E*-Dakin reaction: oxidation of hydroxybenzaldehydes to phenols with electrochemically generated peroxodicarbonate as sustainable *ex-cell* oxidizer

Electrochemically generated peroxodicarbonate solution efficiently oxidizes hydroxybenzaldehydes to valuable phenols. The reaction is carried out in aqueous media without solvents or additives. The reaction gives high yields of up to 97% and tolerates a broad variety of substituents, as demonstrated by 20 diverse examples. It was scaled to multi-gram range. This transformation further expands the synthetic applicability of the green oxidizer peroxodicarbonate, which can be generated on demand from ecologically safe carbonate solutions and has a high oxidation potential at mildly basic conditions.

As featured in:



See Siegfried R. Waldvogel *et al.*, *Green Chem.*, 2024, **26**, 5862.