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Applications of oxidases in continuous flow

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PURPOSE OF THE ABSTRACT

Continuous flow offers an alternative way to conduct enzymatic transformations.1 The fine control and abnormal operating windows accessible with flow reactors presents several opportunities for enhanced biocatalyst performance.2,3 I will discuss several approaches using continuous flow to improve the metrics of biocatalytic reactions. It will focus on a range of oxidase enzymes,4–6 and how changing from typical 'batch' conditions has improved the synthetic performance of these enzymes, even giving access to new operating windows not obtainable in batch.7

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FIGURES

FIGURE 1

FIGURE 2

KEYWORDS

Oxidases | Continuous flow | Biocatalysis

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