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TOPIC(s) : Waste valorization

Nitrogen oxides and nitric acid enable the sustainable hydroxylation and nitrohydroxylation of benzenes under visible light irradiation

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## **PURPOSE OF THE ABSTRACT**

A new type of waste recycling strategy is described in which nitrogen oxides or nitric acid are directly employed in photocatalyzed hydroxylations and nitrohydroxylations of benzenes. Through these transformations, otherwise costly denitrification can be combined with the synthesis of valuable compounds for various applications.

## FIGURES



### FIGURE 1

Sustainable hydroxylation and nitrohydroxylation of benzenes under visible light irradiation  
Graphical abstract

### FIGURE 2

## KEYWORDS

Green Chemistry | Nitrogen Oxides | Denitrification | from waste to value

## BIBLIOGRAPHY