

Accepted Manuscript

Title: Transformation pathway and toxic intermediates inhibition of photocatalytic NO removal on designed Bi metal@defective $\text{Bi}_2\text{O}_2\text{SiO}_3$

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PII: S0926-3373(18)30862-2
DOI: <https://doi.org/10.1016/j.apcatb.2018.09.032>
Reference: APCATB 17015

To appear in: *Applied Catalysis B: Environmental*

Received date: 9-7-2018
Revised date: 3-9-2018
Accepted date: 11-9-2018

Please cite this article as: Li X, Zhang W, Li J, Jiang G, Zhou Y, Lee S, Dong F, Transformation pathway and toxic intermediates inhibition of photocatalytic NO removal on designed Bi metal@defective $\text{Bi}_2\text{O}_2\text{SiO}_3$, *Applied Catalysis B: Environmental* (2018), <https://doi.org/10.1016/j.apcatb.2018.09.032>

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**Transformation pathway and toxic intermediates inhibition of
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 $\text{Bi}_2\text{O}_2\text{SiO}_3$**

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