RSC Advances



CORRECTION

View Article Online
View Journal | View Issue



Cite this: RSC Adv., 2015, 5, 25532

Correction: Biogenic synthesis of ZnO-Ag nano custard apples for efficient photocatalytic degradation of methylene blue by sunlight irradiation

S. Kaviya and Edamana Prasad*

DOI: 10.1039/c5ra90023a

www.rsc.org/advances

Correction for 'Biogenic synthesis of ZnO-Ag nano custard apples for efficient photocatalytic degradation of methylene blue by sunlight irradiation' by S. Kaviya et al., RSC Adv., 2015, 5, 17179–17185.

There is some information missing in the section **Photocatalytic degradation of methylene blue** in the original manuscript. The following graphic should have been included in page 17183 after the sentence:

The various reactions involved in the process can be summarized as follows. 45,52,53

$$ZnO-Ag NCA \xrightarrow{Sunlight-UV} ZnO-Ag NCA (e^{-}(CB) + h^{+}(VB)) (1)$$

$$ZnO-Ag NCA (e^{-}(CB)) + O_{2} \longrightarrow ZnO-Ag NCA + O_{2}^{--} (2)$$

$$O_{2}^{--} + H^{+} \longrightarrow HO_{2}^{--} (3)$$

$$HO_{2}^{--} + H_{2}^{+} O_{2} \longrightarrow H_{2}O_{2} + O_{2} (4)$$

$$O_{2}^{--} + H_{2}O_{2} \longrightarrow OH + OH + O_{2} (5)$$

$$ZnO-Ag NCA (h^{+}(VB)) + OH \longrightarrow ZnO-Ag NCA + OH (6)$$

$$OH + Methylene blue (MB) \longrightarrow CO_{2} + H_{2}O (7)$$

$$MB^{+} + ZnO-Ag NCA \xrightarrow{Sunlight-vis} MB^{+-} + ZnO-Ag NCA (e^{-}(CB) (8))$$

$$ZnO-Ag NCA (e^{-}(CB) + O_{2} \longrightarrow O_{2}^{--} (9)$$

$$MB^{+-} + O_{2}^{--} / O_{2} \longrightarrow CO_{2} + H_{2}O (10)$$

The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.