Photocatalytic Degradation of Composites With Magnesium Aluminum Hydrotalcite Derived Metal Oxides and g-C₃N₄

Mingwei Yu

Lianhong Zhang (✉ lh_zhang123@sina.com)

Jie Wen

Hui Zhang

Faping Liu

Yanjun Lv

Xiaodong Zhao

Research Article

Keywords:

Posted Date:

DOI:

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Version of Record:

Abstract

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1 Introduction

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2 Experimental

2.1 Materials

3 6 6 3
3 2 2 3 3 2

2.2 Preparation of g-C₃N₄

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2+ 3+ 3 3 2 3 2 2 3

$\frac{3}{4}$ $\frac{3}{4}$ $\frac{3}{4}$

2.6 Photocatalytic performance evaluation

$$\eta = \frac{A_0 - A_t}{A_0} \times 100\%$$

0

t

$$\ln(C_0/C_t) = kt$$

-1 0

t

3. Results And Discussion

3.1 Characterization methods

3.1.1 SEM

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3.1.2 TEM

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3.1.3 XRD

3.1.4 FTIR

3.1.5 XPS

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3.1.6 UV-vis Diffuse Reflectance Spectrum

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3.1.7 Fluorescence Spectrum

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3.2 Evaluation of Photocatalytic Performance

3.2.1 Evaluation of Photocatalytic Degradation

3.2.2 Valuation of Cycle Stability Performance

3.3 Mechanism Analysis

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2 2⁻

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2⁻

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4. Conclusion

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Declarations

References

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Figures

Figure 1

Figure 2

Figure 3

Figure 4

Figure 5

Figure 6

Figure 7

Figure 8

Figure 9

Figure 10

Figure 11