

环生学院毕业论文（设计）正文示例：（撰写论文时，红色部分直接删除）

归档号：H228-2022-JX17-019

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2023年5月20日

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(目录题头用小二号黑体字居中排列，隔行书写目录内容。目录中的中文字体用小四号宋体，英文字体为小四号 Time Ne Roman 体，行距为固定值 23 磅。

目录中的一级标题段首无缩进，二级标题段首缩进 2 字符，三级标题段首缩进 4 字符。)

TiO₂ 基纳米材料光催化降解丙酮的研究 (居中, 小二号, 中文黑体、英文 Time Ne Roman)

(空一行)

摘要 (黑体小四顶格)

TiO₂

A /TiO₂

XRD FE-SEM UV-Vi DRS

A /TiO₂

XRD

TiO₂ 1.50 %A /TiO₂ 2.00 %A /TiO₂

2θ 25.41 37.99 48.42 54.04 62.69

TiO₂ 101 004 200 100 204

FE-SEM

UV-Vi DRS

A /TiO₂

600nm

A

TiO₂

A /TiO₂

1.00 %A /TiO₂

23 300-500

(空一行)

关键词 (黑体小四顶格) TiO₂

A /TiO₂ (宋体小四,

3 5个, 不同中文关键词之间用全角分号隔开)

Study on Photochemical Degradation of Aceone by TiO₂-based Nanomaterial (小二号 Time Ne Roman 体居中, 标题中实词首字母大写)

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(小二号 Time Ne Roman 体加粗, 顶格): In the experiment, TiO₂ nanomaterials were prepared by hydrothermal method. On the basis of increasing Ti anic acid precursor, porous gold was prepared by electron lamp photo-deposition, and gold-porous indium dioxide nanomaterial (A/TiO₂) were prepared. The synthesized nanomaterials were characterized and analyzed by XRD, FE-SEM, UV-Vis DRS and other analytical methods. The photochemical oxidation performance of A/TiO₂ nanomaterial for aceone was studied in detail. The diffraction peak of TiO₂, 1.50 %A/TiO₂ and 2.00 %A/TiO₂ samples prepared by hydrothermal method were analyzed by XRD at 25.41°, 37.99°, 48.42°, 54.04° and 62.69° 2θ. The diffraction peak corresponds to the crystal plane of (101), (004), (200), (100) and (204) of anatase TiO₂. FE-SEM showed that the prepared nanomaterials are long and fibrous, with a length of several micrometers. The nanowires had a uniform diameter and presented a fibrous arrangement, in order to enhance their surface area. According to UV-Vis DRS analysis, the A/TiO₂ nanomaterial after photodeposition has a obvious absorption peak in the visible light region with a wavelength of 600nm, and the absorption in the visible light region increases with the increase of A content. Under the same experimental condition, through the photochemical degradation of TiO₂ nanomaterial aceone performance is better than the photochemical performance of A/TiO₂ nanomaterial for aceone is better, and the photochemical performance of 1.00 %A/TiO₂ nanomaterial for aceone is the best. (小四号 Time Ne Roman 体, 行距 23 磅)

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[小四号 Time Ne Roman 加粗, 顶格]: TiO₂-based nanomaterial Photochemical Aceone A/TiO₂ (小四号 Time Ne Roman 体, 行距 23 磅, 首字母大写)

1 绪论 (正文 1 级标题, 小二号字体, 中文黑体、英文 Time Ne Roman。)

(标题序号后无“.”, 与标题名称之间空半角 1 格, 后面其他各级标题相同)

(以下正文行距均为固定值 23 磅、段前段后为 0 行; 除标题外, 字体为小四号, 中文宋体、英文 Time Ne Roman。)

1.1 引言 (正文 2 级标题, 四号字体, 中文黑体, 英文 Time Ne Roman)

[1] (文

献引用标注)

[2] VOC

[3]

VOC

1.2 挥发性酮醛类化合物概述

1.2.1 挥发性酮醛类化合物定义及来源 (3 级标题格式: 字体小四, 中文黑体、英文及数字 Time Ne Roman, 段前段后为 0 行。

50

260

[5]

1.2.2 挥发性酮醛类化合物危害

189

11

表 1-1 挥发性醛酮类化合物对人体危害图

2-	CH_3COCH_3 $\text{CH}_3\text{COCH}_2\text{CH}_3$ CH_3O $\text{C}_3\text{H}_{10}\text{O}$ $\text{CH}_2\text{CH}_2\text{CHO}$ $\text{CH}_3\text{CH}_2\text{CHO}$ $\text{CH}_3(\text{CH}_2)_2\text{HO}$ $\text{CH}_3\text{CH}_2\text{CH}_2\text{CHO}$ $\text{C}_6\text{H}_5\text{CHO}$ $\text{CH}_3\text{C}(\text{CH}_2)\text{CHO}$ $\text{C}_8\text{H}_8\text{O}$
Time Ne Roman	Time Ne Roman
	1 0.75

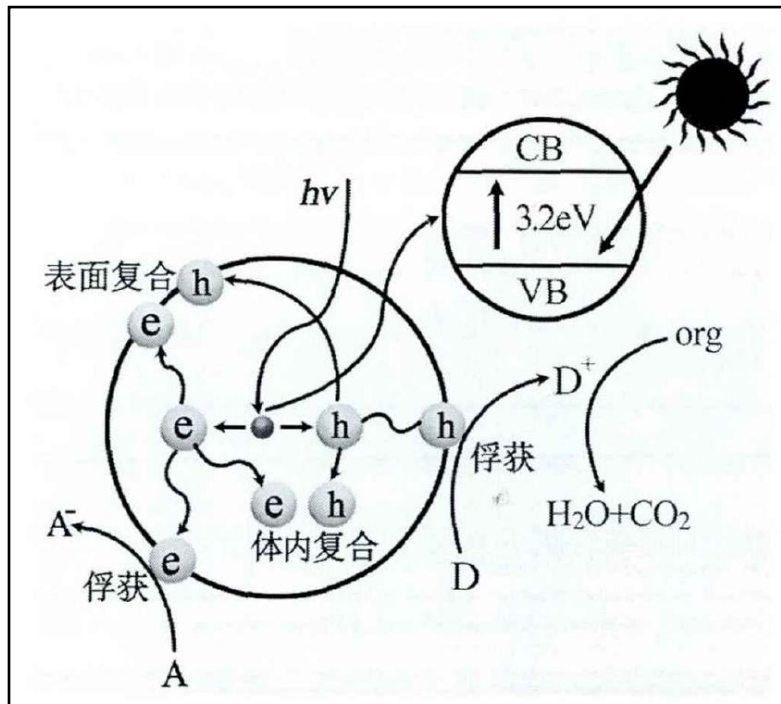


图 1-1 光催化原理图

(图名黑体五号、 Time Ne Roman 居中)

(图中若有分图时, 分图号用 a)、b)标识并置于分图之下。)

1.5 研究内容与意义

TiO_2

TiO_2

(每一章之间不需要独立成页、不需要空行，直接撰写下一章)

2 实验部分

2.1 实验材料、试剂与设备

2-1

2-2

表 2-1 实验设备表

		HF-GHX-XE-300	1
		WSWK-5	1
		DF-101S	1
		85-2	1
		INNOVA-1312	1
X	XRD	Emp rean	1
		UV-1800	1
	X-Ma N80	JSM-7500F	1

表 2-2 实验试剂表

	25g/	1
	500g/	1
	500g/	1
	500g/	1
	500g/	1
	500g/	1
	500g/	1
	500g/	2
	500g/	1
	1g/	1
P25	250g/	1

2.2 水热法制备纳米材料

3 结果与分析

4 结论与讨论

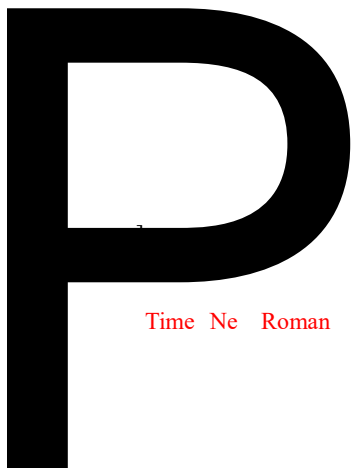
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参考文献 (一级标题，黑体小二，居中)

- [1] . TiO₂ [D]. : , 2011.

[2] .°nŵ Ü° \$# Ø # ¼› ËD# 9

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致谢 (单独成页, 小二号黑体, 居中, 行距 23 磅)

(格式要求与正文部分相同)

附录 1（单独成页，四号黑体，左顶格，空一行书写附录内容，附录内容文字字体字号参考正文要求）

附录 2