Cambridge Large One

www.cambridge.org

高中化学

Chunol*

First Division, 学校, 宁波, 315600, 浙江, 中国

物质及其变化

Keywords:
游离态, keyword entry 2, keyword entry 3

*Author for correspondence. Email:
18868974680@163.com

目录

CAMBRIDGE
UNIVERSITY PRESS

Abstract
这里是 abstract

这是我的笔记

Impact Statement

声明：

物质及其变化

物质的分类

任何物质都是由元素组成的 (元素化学)

1. 单质: 只由一种元素组成的纯净物
2. 化合物: 由多种元素组成的化合物
3. 游离态: 元素以单质形态存在的状态
4. 化合态: 元素以化合物形态存在的状态

同素异形体

1. 定义: 同种元素形成的不同单质
2. 形式:原子个数不同原子排列方式不同

- 同素异形体之间的差异体现在物理性质上
- 同素异形体之间的转化属于化学变化

注意区分:" 同素异形体"," 同位素"," 同分异构体"," 同系物"

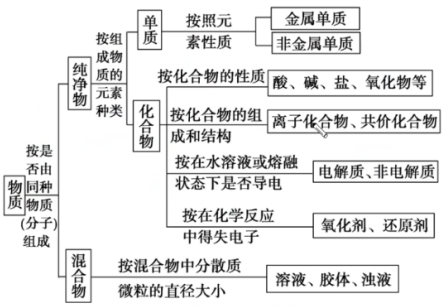

图 1. Classification of substances

氧化物

- 定义: 氧元素与另外一种化学元素组成的二元化合物

$$Fe_3O_4 + 8HCl = 2FeCl_3 + FeCl_2 + 4H_2O$$

$$Pb_3O_4 + 4\,HNO_3 \longrightarrow PbO_2 + 2\,Pb(NO_3)_2 + 2\,H_2O$$

注: 碱性氧化物一定是金属氧化物

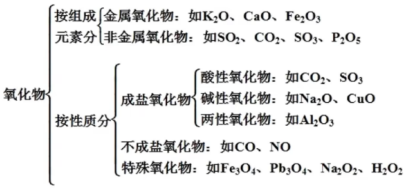

图 2. oxide

Insert C head here

Subsubsection text here. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do[1] eiusmod tempor incididunt ut labore et dolore magna aliqua.

Equations

Sample equations. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Lorem ipsum dolor sit amet, consectetur[2] adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

$$\frac{\partial u(t,x)}{\partial t} = Au(t,x)\left(1-\frac{u(t,x)}{K}\right) - B\frac{u(t-\tau,x)w(t,x)}{1+Eu(t-\tau,x)},$$
$$\frac{\partial w(t,x)}{\partial t} = \delta\frac{\partial^2 w(t,x)}{\partial x^2} - Cw(t,x) + D\frac{u(t-\tau,x)w(t,x)}{1+Eu(t-\tau,x)}, \tag{1}$$

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

$$\frac{dU}{dt} = \alpha U(t)(\gamma - U(t)) - \frac{U(t-\tau)W(t)}{1+U(t-\tau)},$$
$$\frac{dW}{dt} = -W(t) + \beta\frac{U(t-\tau)W(t)}{1+U(t-\tau)}. \tag{2}$$

$$\frac{\partial(F_1,F_2)}{\partial(c,\omega)}_{(c_0,\omega_0)} = \begin{vmatrix} \frac{\partial F_1}{\partial c} & \frac{\partial F_1}{\partial \omega} \\ \frac{\partial F_2}{\partial c} & \frac{\partial F_2}{\partial \omega} \end{vmatrix}_{(c_0,\omega_0)}$$
$$= -4c_0 q\omega_0 - 4c_0\omega_0 p^2 = -4c_0\omega_0(q+p^2) > 0.$$

Figures & Tables

The output for a single-column figure is in Figure 3. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

See example table in Table 1.

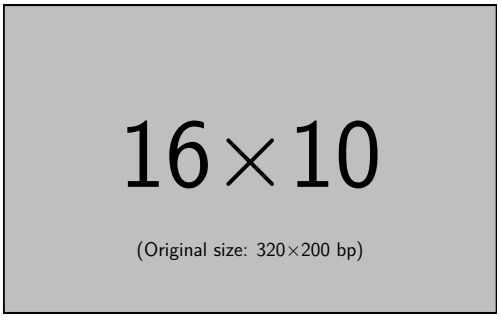

图 3. Insert figure caption here

表 1. An Example of a Table

Column head 1	Column head 2	Column head 3	Column head 4
One[a]	Two	three three	four
Three	Four	three three[b]	four

Table note

a First note

b Another table note

Conclusion

The conclusion text goes here.

Acknowledgement

Insert the Acknowledgment text here.

Funding Statement This research was supported by grants from the <funder-name> <doi> (<award ID>); <funder-name> <doi> (<award ID>).

Competing Interests A statement about any financial, professional, contractual or personal relationships or situations that could be perceived to impact the presentation of the work — or 'None' if none exist.

Data Availability Statement A statement about how to access data, code and other materials allowing users to understand, verify and replicate findings — e.g. Replication data and code can be found in Harvard Dataverse: `\url{https://doi.org/link}`.

Notes

1 A footnote/endnote

2 Another footnote/endnote

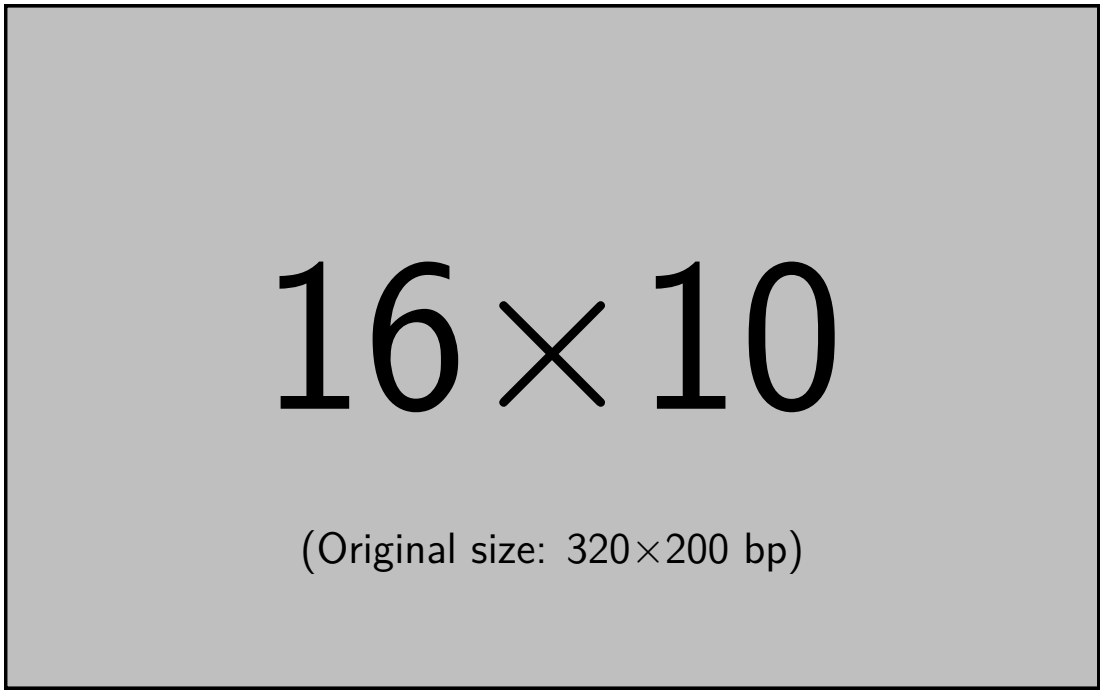

图 4. Insert figure caption here

Example Appendix Section

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.