宁海海亮教育

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物质及其变化

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高中化学梗概

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目录

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Abstract
abstract

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Impact Statement

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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

图 2. oxide

$$Fe_3O_4 + 8HCl == 2FeCl_3 + FeCl_2 + 4H_2O$$
$$Pb_3O_4 + 4HNO_3 \longrightarrow PbO_2 + 2Pb(NO_3)_2 + 2H_2O$$

注: 碱性氧化物一定是金属氧化物

Insert C head here

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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 in-

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$$\frac{\partial u(t,x)}{\partial t} = A u(t,x)\left(1 - \frac{u(t,x)}{K}\right) - B\frac{u(t-\tau,x)w(t,x)}{1 + Eu(t-\tau,x)},$$

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

$$(1)$$

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

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

$$(2)$$

$$\frac{\partial(F_1, F_2)}{\partial(c, \omega)}\bigg|_{(c_0,\omega_0)} = \left|\begin{array}{cc} \frac{\partial F_1}{\partial c} & \frac{\partial F_1}{\partial \omega} \\ \frac{\partial F_2}{\partial c} & \frac{\partial F_2}{\partial \omega} \end{array}\right|_{(c_0,\omega_0)}$$

$$= -4c_0 q\omega_0 - 4c_0\omega_0 p^2 = -4c_0\omega_0(q + p^2) > 0.$$

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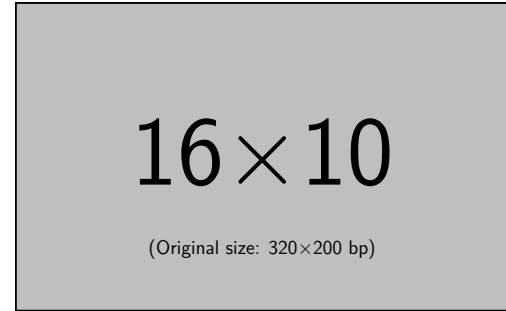ut labore et dolore magna aliqua. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

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图 3. Insert figure caption here

See example table in Table 1.

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.

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
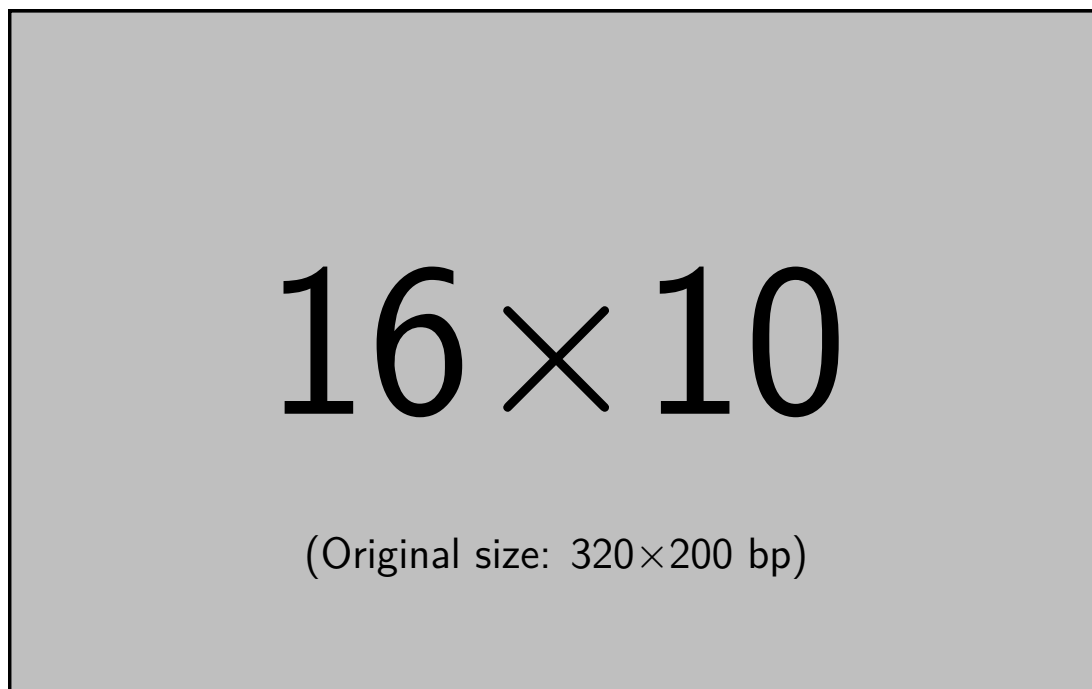
图 4. Insert figure caption here

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

Example Appendix Section

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