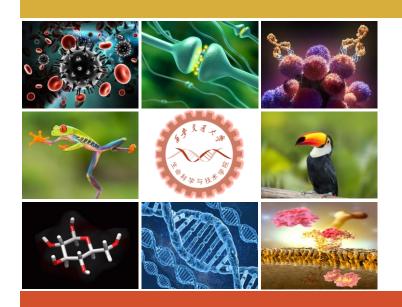
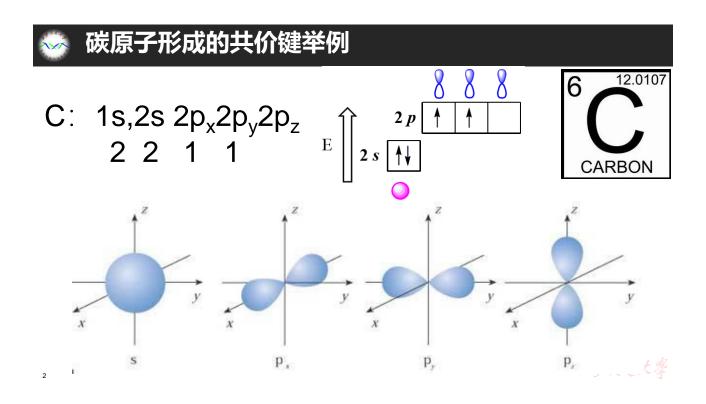
生命科学基础 I



第二章 细胞的物质基础原子与化学键课后拔高内容

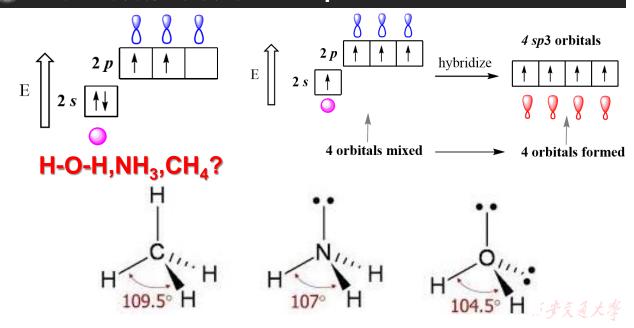
孔宇 教授

西安交通大学生命科学与技术学院 2022年9月15日



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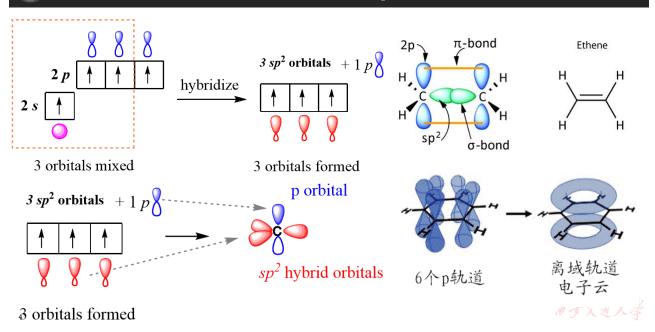
碳原子形成的共价键举例-sp3



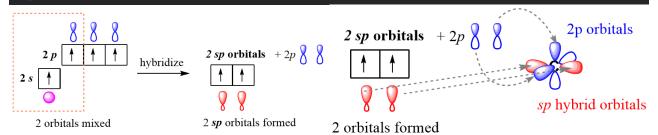
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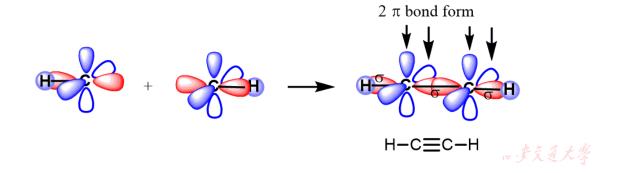
3

碳原子形成的共价键举例-sp2



碳原子形成的共价键举例-sp

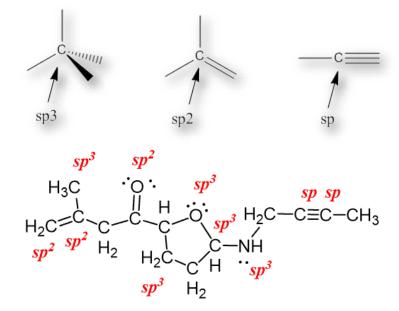




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5

Summary&practice

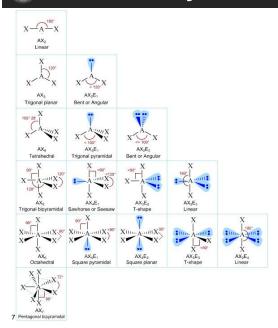


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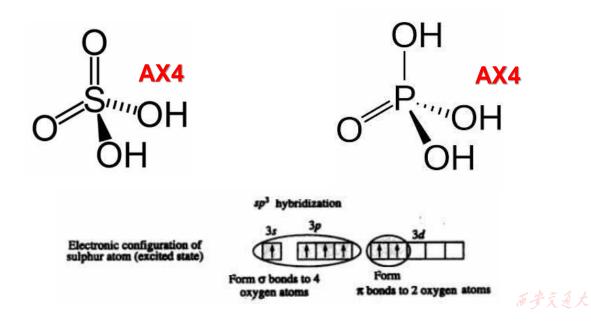
The AXE system



AXmEnsystem, where **A** is the central atom, **m** the number of ligands **X**, and **n** the number of nonbonded lone-pairs of electrons, **E**. In this system: methane, CH₄, is **AX4** ammonia, H₃N:, is **AX3E1** water, H₂O, is **AX2E2**? ? ? -H₂SO₄,H₃PO₄

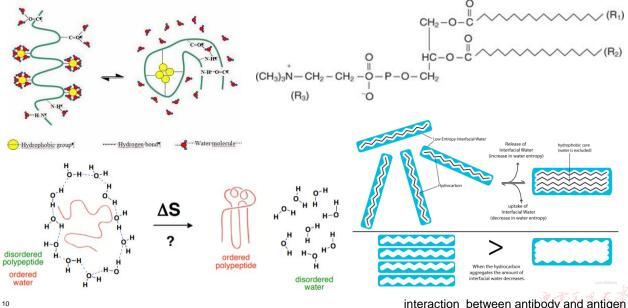


练习



4

练习-试着说说每个原子的结构特征



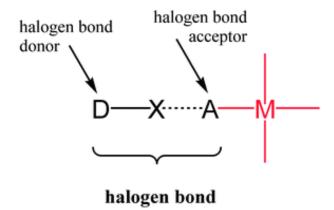
interaction between antibody and antigen



11

卤键-Halogen bond-自学

⋄—X···Y—(X = Cl, Br, I; Y = N, O, S,
$$\pi$$
 健)
⋄—X···Y—(X = Cl, Br, I; Y = Cl, Br, I) [I —I ···I]-



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