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师资建设

副教授

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任小元

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任小元

性别: 女

出生年月: 1969年06月

职称: 副教授

所在学科组: 生物材料

办公室: 6-419

电话: 86843192

电子邮件: imrenxy@gmail.com

主要学习工作经历

- 1.1987.9 – 1991.6 湘潭大学化学系
- 2.1994.9 – 1997.6 北京化工大学应用化学系
- 3.2002.3 – 2005.3 浙江大学化学系
- 4.2005.4 – 今 浙江理工大学生命科学学院

主要研究方向

- 1.富勒烯化学
- 2.分子模拟
- 3.生物质谱

专著论文

1. **Xiao-Yuan Ren**, Cai-Ying Jiang. Density functional studies on the endohedral complex of fullerene C₇₀ with tetrahedrane (C₄H₄): C₄H₄@C₇₀ *Journal of Molecular Modeling*. 18, (2012) 3213
2. **Xiao-Yuan Ren**, Zi-Yang Liu. Endohedral complex of fullerene C₆₀ with tetrahedrane, C₄H₄@C₆₀, *Journal of Molecular Graphics and Modelling* 27 (2008) 558
3. **Xiao-Yuan Ren**, Zi-Yang Liu. Structural and electron properties of the highest epoxygenated C₆₀O₃₀, a DFT study. *Journal of Molecular Graphics and Modelling* 26 (2007) 336.
4. **Xiao-Yuan Ren**, Zi-Yang Liu. Endohedral complexes of fullerene C₆₀ with tetrahedral N₄, N₄@C₆₀. *Structural Chemistry* 16 (2005) 567-570.
5. **Xiao-Yuan Ren**, Zi-Yang Liu. Structural and Electronic Properties of S-doped fullerene C₅₈, where is the S atom situated? *Journal of Chemical Physics* 122 (2005) 034306
6. **Xiao-Yuan Ren**, Zi-Yang Liu, Structural and electronic properties of S-doped fullerene C₅₈, where is the S atom situated? *Virtual Journal of Nanoscale Science & Technology*, 2005, 11, Issue 2, January 17. (see <http://scitation.aip.org/dbt/dbt.jsp?KEY=VIRT01&Volume=11&Issue=2>).
7. **Xiao-Yuan Ren**, Zi-Yang Liu, DFT studies on endohedral fullerene C@C₆₀: C centers the C₆₀ cage. *Journal of Molecular Structure (THEOCHEM)* 710 (2004) 175
8. **Xiao-Yuan Ren**, Zi-Yang Liu, Gas-phase synthesis and the structural and electronic properties of C₆₀^{S+} studied by mass spectrometry and molecular orbital calculation. *Journal of Molecular Structure (THEOCHEM)* 686 (2004) 43
9. **Xiao-Yuan Ren**, Zi-Yang Liu, Gas-phase ion-molecule reactions of neutral C₆₀ with the plasmas of trimethylsilyl ethers and ab initio study on the structures. *Journal of Molecular Structure (THEOCHEM)* 664 (2003) 247.
10. 任小元, 刘子阳, 放电烟袋中水溶性多羟基富勒烯衍生物的简便合成与质谱表征, *质谱学报*, 25 (2004) 27.
11. 任小元, 刘子阳, 富勒烯及富勒烯衍生物的质谱研究进展, *质谱学报*, 4 (2004) 184.



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院址: 浙江杭州下沙高教园区 浙江理工大学6号楼
E-mail: skyb@zstu.edu.cn