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基本信息

曾泽兵，现为湖南大学化学化工学院教授，博士生导师。2012年于新加坡国立大学获博士学位。2012-2014年，新加坡国立大学博士后；2016年赴香港科技大学从事访问学者研究。课题组主要从事功能 π 体系的设计合成、有机光电功能材料、聚集诱导发光(AIE)材料的研究。已发表科研论文50余篇，以通讯或第一作者发表JACS 6篇，ACIE 1篇，Chem.Sci.2篇，Chem.Soc.Rev.1篇等，主持国家或省级多项科研项目。欢迎对有机化学和有机/高分子功能材料感兴趣的学生加入课题组！

研究领域

1. 基于新型电子结构的有机功能 π 体系
2. 有机光电磁性功能分子
3. 聚集态功能分子及其分子工程 (湖南大学AIE研究中心)

学术成果

代表性论文：

1. Z. Zhou⁺, S. Xie⁺, X. Chen, Y. Tu, J. Xiang, J. Wang, Z. He, **Z. Zeng*** and B. Z. Tang* "Spiro-functionalized diphenylethenes: suppression of a reversible photocyclization contributes to the aggregation-induced emission effect". *J. Am. Chem. Soc.* **2019**, *141*, 9803.
2. B. Li, W. Peng, S. Luo, C. Jiang, J. Guo, S. Xie*, Y. Hu*, Y. Zhang, and **Z. Zeng*** "Diagonally π -extended perylene-based bis(heteroacene) for chiroptical activity and integrating luminescence with carrier-transporting capability". *Org. Lett.* **2019**, *21*, 1417.
3. Y. Wang, S. Qiu, S. Xie, L. Zhou, Y. Hong, J. Chang, J. Wu, and **Z. Zeng*** "Synthesis and characterization of oxygen-embedded quinoidal pentacene and nonacene". *J. Am. Chem. Soc.* **2019**, *141*, 2169.
4. C. Jiang, Y. Bang, X. Wang, X. Lu, Z. Lim, H. Wei, S-E. Hankari, J. Wu, and **Z. Zeng***. "Tetrabenzo-Chichibabin's hydrocarbons: substituent effects and unusual thermochromic and thermomagnetic behaviours", *Chem. Commun.*, **2018**, *54*, 2389.
5. S. Qiu, C. Wang, S. Xie, X. Huang, L. Chen, Y. Zhao, and **Z. Zeng***. "Toward helical-shaped diradicaloids: cyclobutenyl O-quinodimethane-bridged indeno[1,2-b]fluorenes". *Chem. Commun.*, **2018**, *54*, 11383.(selected as Front Cover).
6. H. Wei, T. Qiu, X. Huang, J. Zhou, J. Guo, C. Jiang, S. Luo, **Z. Zeng***, J. Wu. "A facile approach toward 1,2-diazabeno-[ghi]perylene derivatives: structures and electronic properties" *Chem. Commun.*, **2017**, *53*, 6740.
7. H. Wei, L. Zhang, H. Phan, X. Huang, T. S. Heng, J. Zhou, W. Zeng, J. Ding, S. Luo, J. Wu, and **Z. Zeng***. "A stable N-annulated perylene-bridged bisphenoxy diradicaloid and the corresponding boron trifluoride complex" *Chem. Eur. J.* **2017**, *23*, 9419.
8. Y. Li, Y. Hong, J. Guo, X. Huang, H. Wei, J. Zhou, T. Qiu, J. Wu, and **Z. Zeng***. "Bay- and ortho- octasubstituted perylenes". *Org. Lett.* **2017**, *19*, 5094.
9. H. Wei, Y. Liu, X. Huang, L. Bao, J. Guo, J. Zhou, S. Luo, J. Wu, and **Z. Zeng***. "B-N-B bond embedded phenalenyl and its anions." *J. Am. Chem. Soc.* **2017**, *139*, 15760.
10. S. Qiu, Y. Zhang, X. Huang, L. Bao, Y. Hong, **Z. Zeng***, J. Wu. "9-Ethynylfluorenyl radicals: regioselective dimerization and post ring-cyclization reactions" *Org. Lett.* **2016**, *18*, 6018.
11. L. Yuan,* F. Jin, **Z. Zeng***, C. Liu, S. Luo, J. Wu. "Engineering FRET strategy to achieve tatiometric two-photon fluorescence response with large emission shift and its application to fluorescence imaging" *Chem. Sci.* **2015**, *6*, 2360.
12. **Z. Zeng**, S. Lee, M. Son, K. Fukuda, P. M. Burrezo, X. Zhu, Q. Qi, R. Li, J. López Navarrete, J. Ding, J. Casado, *M. Nakano, D. Kim*, J. Wu*, "Push-pull type oligo(N-annulated perylene) quinodimethanes: chain length and solvent-dependent ground states and physical properties". *J. Am. Chem. Soc.* **2015**, *137*, 8572.
13. **Z. Zeng**, X. Shi, C. Chi, J. T. López Navarrete, J. Casado*, J. Wu*. "Proaromatic and antiaromatic π -conjugated molecules: an irresistible wish to be diradicals" *Chem. Soc. Rev.* **2015**, *44*, 6578.(Highly Cited Paper)
14. **Z. Zeng**, S. Lee, J. Zafra, M. Ishida, Z. Zhu, Z. Sun, Y. Ni, R. Webster, R. Li, J. López Navarrete, C. Chi*, J. Ding*, J. Casado*, D. Kim*, J. Wu*. "Tetracyanoquaterylene and hexarylenequinodimethanes with tunable ground states and strong near-infrared absorption", *Angew. Chem. Int. Ed.* **2013**, *52*, 8561. (Hot Paper)
15. **Z. Zeng**, M. Ishida, J. Zafra, X. Zhu, Y. Sung, N. Bao, R. Webster, B. Lee, R. Li, W. Zeng, Y. Li, C. Chi, J. López Navarrete, J. Ding*, J. Casado*, D. Kim*, J. Wu*. "Pushing extended p-quinodimethanes to the limit: stable tetracyano- oligo(N-annulated perylene)quinodimethanes with tunable ground states", *J. Am. Chem. Soc.* **2013**, *135*, 6363. (JACS Spotlights).
16. **Z. Zeng**, Y. Sung, N. Bao, D. Tan, R. Lee, J. Zafra, B. Lee, M. Ishida, J. Ding, J. López Navarrete, Y. Li, W. Zeng, D. Kim, K. Huang, R. Webster*, J. Casado*, J. Wu*, "Tetrabenzo- Chichibabin's hydrocarbons: tunable ground state and unusual conversion between their closed-shell and open-shell resonance forms", *J. Am. Chem. Soc.* **2012**, *134*, 14513-14525. (JACS Spotlights).

