

韩颢简介



博士、讲师

武汉科技大学/化学与化工学院

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教育和工作经历

2018.07-至今 武汉科技大学 化学与化工学院

2013.09-2018.06 华中师范大学 化学学院，有机化学，理学博士

2009.09-2013.06 华中农业大学 理学院，应用化学，理学学士

主要研究方向

刺激响应传感材料（光、热、力、蒸汽等）

分子探针与生物成像

超分子合成及功能化

主持科研项目

基于主客体作用的固态门控型光致变色化合物的构建及性能研究（21901194），
国家自然科学基金

主要研究成果

- [1] Chen, W., Zhang, C., Han, X.,* Liu, S. H., Tan, Y.*, Yin, J.*
“Fluorophore-Labeling Tetraphenylethene Dyes Ranging from Visible to Near-Infrared Region: AIE Behavior, Performance in Solid State, and Bioimaging in Living Cells” *J. Org. Chem.* 2019, 84, 14498–14507. (封面文章)
- [2] Han, X.; Liu, Y.; Liu, G.; Luo, J.; Liu, S. H.; Zhao, W.*; Yin, J.* “A Versatile Naphthalimide–Sulfonamide-Coated Tetraphenylethene: Aggregation-Induced Emission Behavior, Mechanochromism, and Tracking Glutathione in Living Cells” *Chem. Asian J.* 2019, 14, 890 – 895. (VIP)
- [3] Han, X.; Hu, F.; Chi, W.; Ma, X.; Liu, S. H.; Liu, X.*; Yin, J.* “Unusual intermolecular charge transfer enables supramolecular fluorescent viscosity sensors” *Sensor Actuat B-Chem.* 2018, 227, 55-61.
- [4] Han, X.; Li, D.; Ma, X.; Liu, S. H.; Yin, J.* “Photoactivatable Fluorescence Enhanced Behaviour of Benzo[c][1,2,5]oxadiazole-dressing Tetraphenylethene” *New J. Chem.* 2018, 42, 6609-6612.
- [5] Xu, Z.; Huang, X.; Han, X.; Wu, D.; Zhang, B.; Tan, Y.*; Cao, M.; Liu, S. H.; Yin, J.*; Yoon, J.* “A visible and near-Infrared, dual channel fluorescence-on probe for highly selective tracking of mitochondrial glutathione” *Chem.* 2018, 4, 1609-1628. (共同一作)
- [6] Han, X.; Zhang, B.; Chen, J.; Liu, S. H.; Tan, C.; Liu, H.; Lang, M. J.; Tan, Y.*; Liu, X.*; Yin, J.* “Modulating aggregation-induced emission via a non-conjugated linkage of fluorophores to tetraphenylethenes” *J. Mater. Chem. B* 2017, 5, 5096-5100.
- [7] Han, X.; Li, Z.; Xu, Z.; Zhao, Z.; Liu, S. H.; Yin, J.* “Construction of Crown Ether-Stoppering [3]Rotaxanes Based on N-Hetero Crown Ether Host” *Chin. J. Chem.* 2017, 35, 1050-1056. (封面文章)

- [8] Han, X.; Liu, G.; Liu, S. H.; Yin, J.* “Synthesis of rotaxanes and catenanes using an imine clipping reaction” *Org. Biomol. Chem.* 2016, 14, 10331-10351. (封面文章)
- [9] Han, X.; Cao, M.; Xu, Z.; Wu, D.; Chen, Z.; Wu, A.; Liu, S. H.; Yin, J.* “Aggregation-induced emission behavior of a pH-controlled molecular shuttle based on a tetraphenylethene moiety” *Org. Biomol. Chem.* 2015, 13, 9767-9774.
- [10] Han, X.; Lv, X.; Chen, Z.; Yu, G.; Yin, J.; Liu, S.* “A Fluorescent Probe for Hg²⁺ Based on Gold(I) Complex with An Aggregation-Induced Emission Feature” *Chin. J. Chem.* 2015, 33, 1064-1068.
- [11] Han, X.; Hu, F.; Ge, H.; Liu, S.; Yin, J.* “The Application of Templated-Directed Clipping Approach in Constructing Mechanically Interlocked Molecules Based on N-Hetero Crown Ether” *Prog. Chem.* 2015, 27, 675-686.
- [12] Li, Z.; Han, X.; Chen, H.; Wu, D.; Hu, F.; Liu, S. H.; Yin, J.* “Construction of photoswitchable rotaxanes and catenanes containing dithienylethene fragments” *Org. Biomol. Chem.* 2015, 13, 7313-7322. (共同一作)