

Supporting information

Recent Advancements on Process Intensification for Singlet Oxygen Mediated Photooxidative Transformations using Flow Photoreactors and Photocatalytic Materials

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S1. Electronic configuration of triplet and singlet oxygen

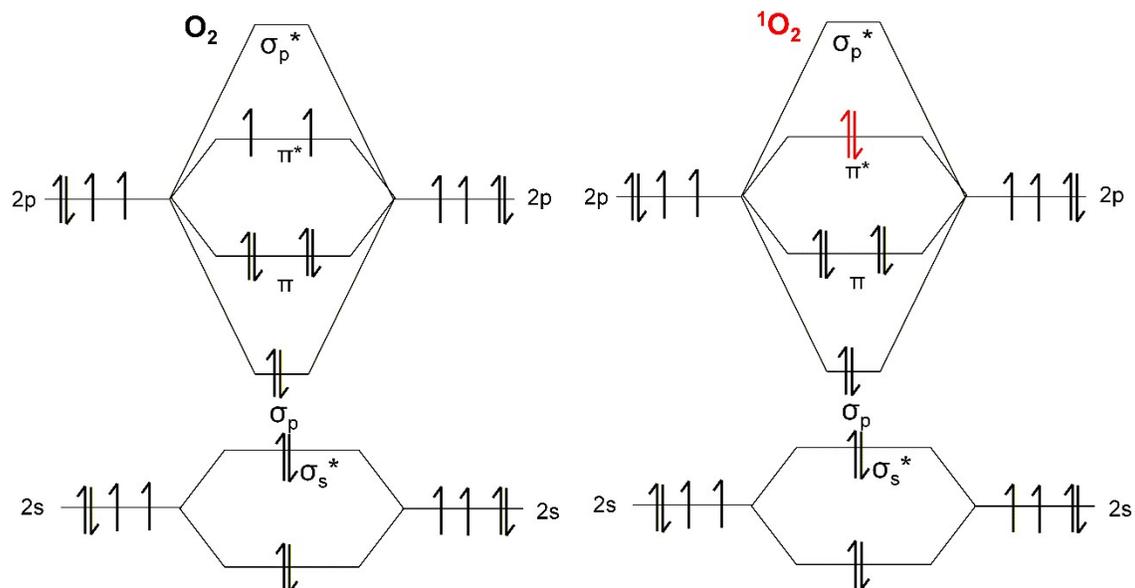
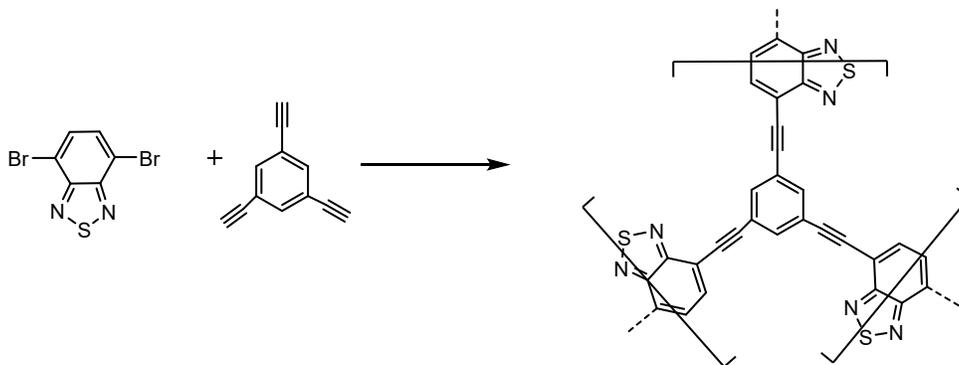
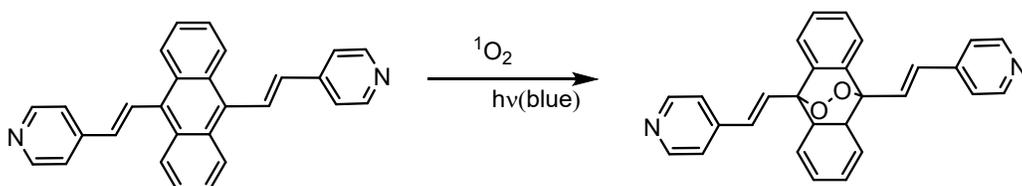


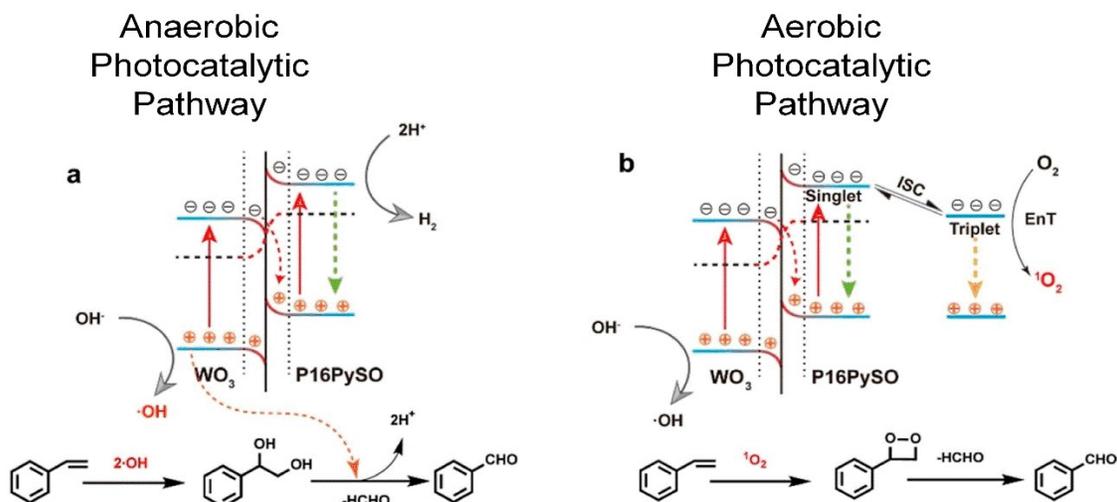
Fig. S1 Electronic configuration of triplet and singlet oxygen.



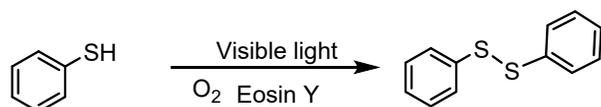
Scheme S1. Synthesis of microporous polymer networks by using SiO_2 NPs for surface area control.



Scheme S2. Photooxidation of coordinated polymers (CP) support-based photocatalytic materials.



Scheme S3. Photocatalytic pathways for styrene to benzaldehyde under anaerobic and aerobic conditions ¹(Reproduced from ref. 1 of the supporting information from the permission of American Chemical Society (ACS Catal. 2023, 13, 1, 459–468), copyright 2023).



Scheme S4. Aerobic photooxidation of Thiophenol to diphenyl disulfide.

