

Supplementary Information

Multifunctional Z-scheme Bi-MOF/g-C₃N₄ photocatalyst for pharmaceutical degradation, hydrogen evolution, and electricity generation

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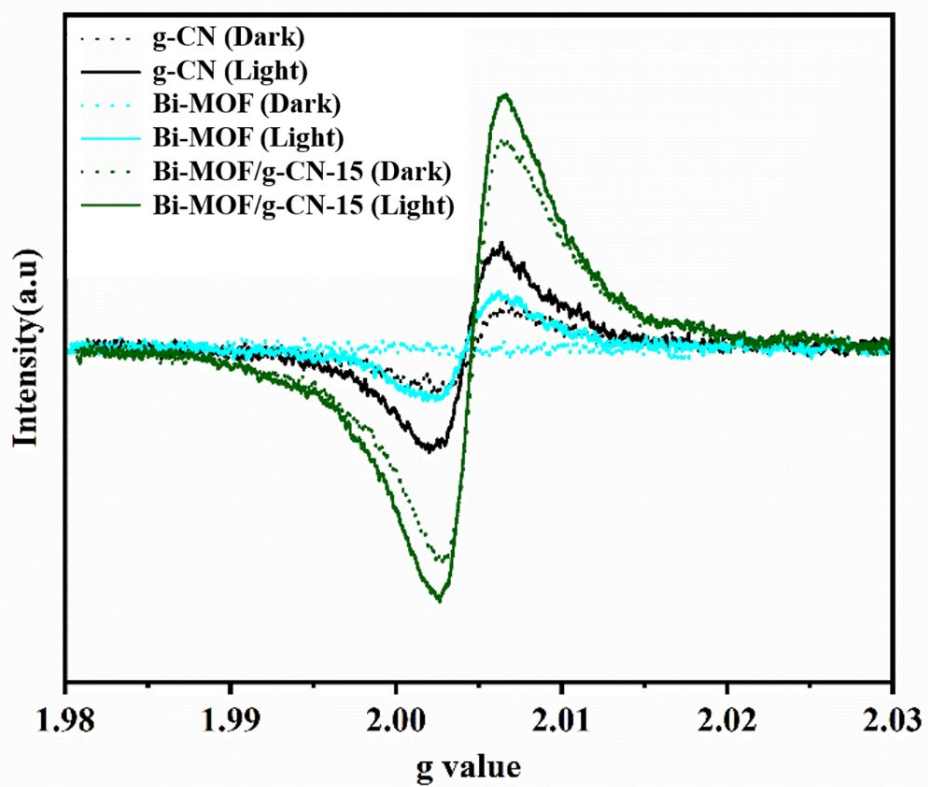


Fig. S1. EPR for g-CN, Bi-MOF and Bi-MOF/g-CN-15.

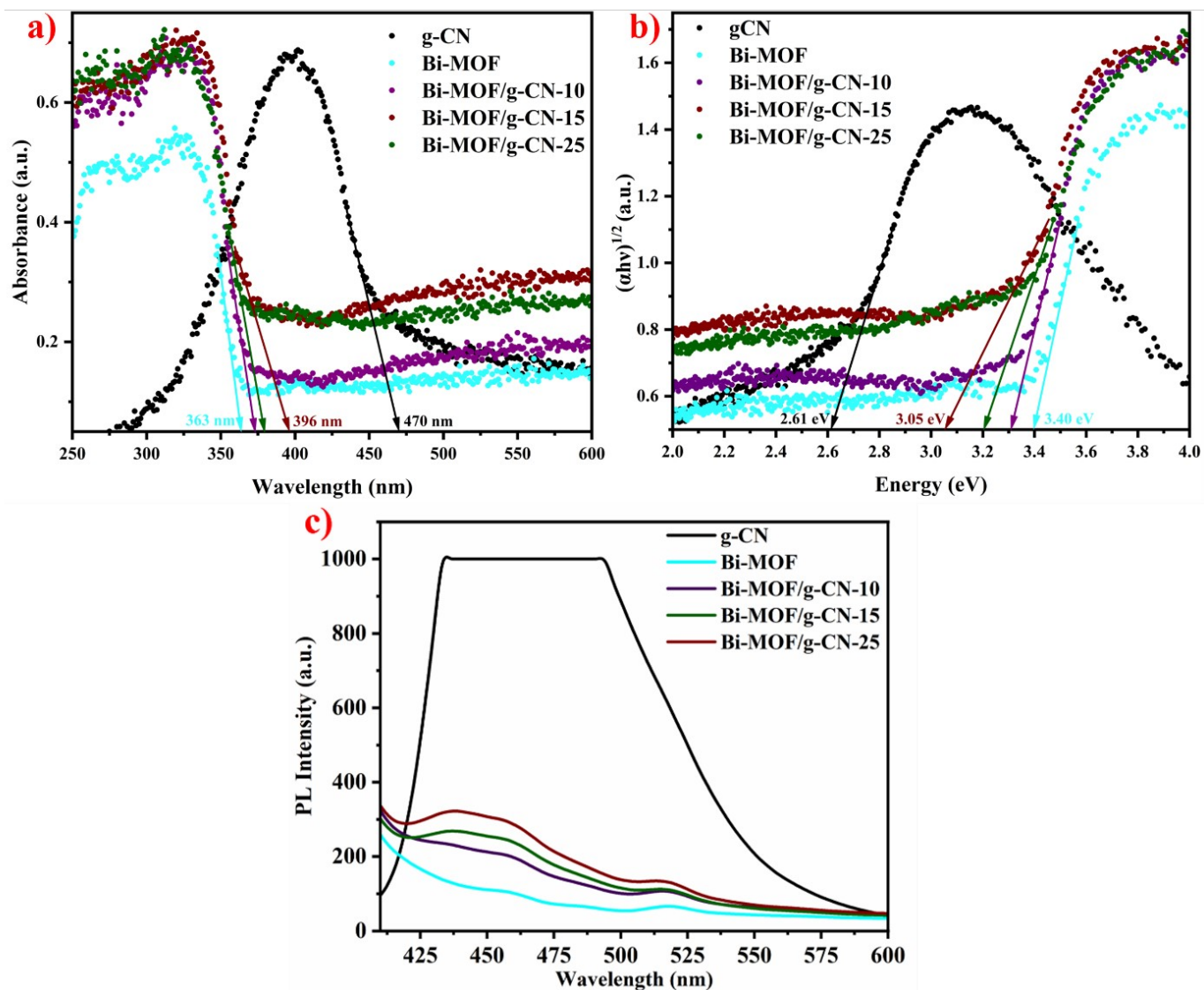


Fig. S2. (a) UV-DRS absorption, (b) Band gap calculation, and (c) Photoluminescence spectra g-CN, Bi-MOF, and Bi-MOF/g-CN-15.

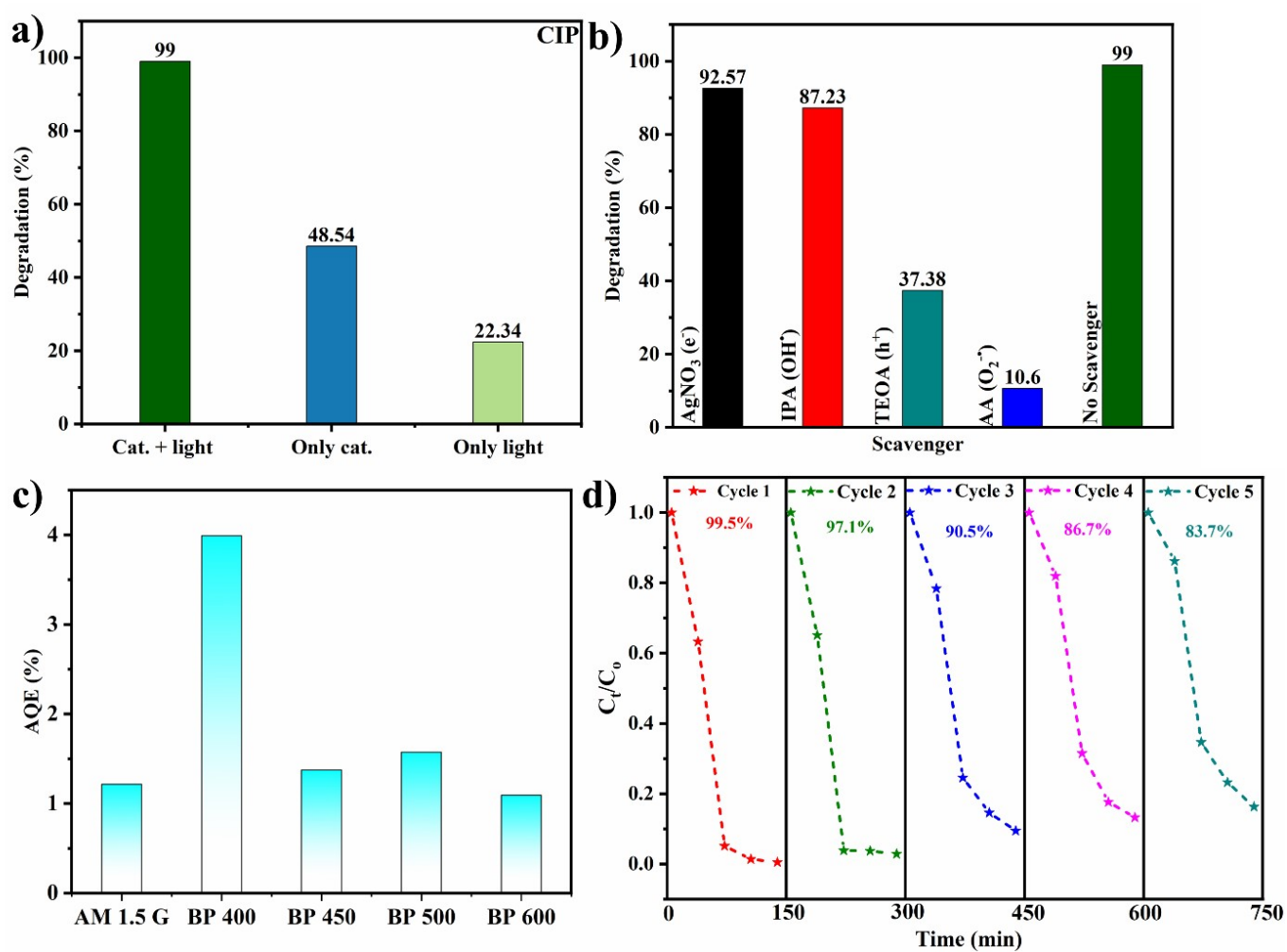


Fig. S3. CIP degradation (a) Control experiment, (b) Effect of scavengers, (c) Apparent quantum efficiencies, and (d) Recycle experiments for g-CN, Bi-MOF, and Bi-MOF/g-CN-15.

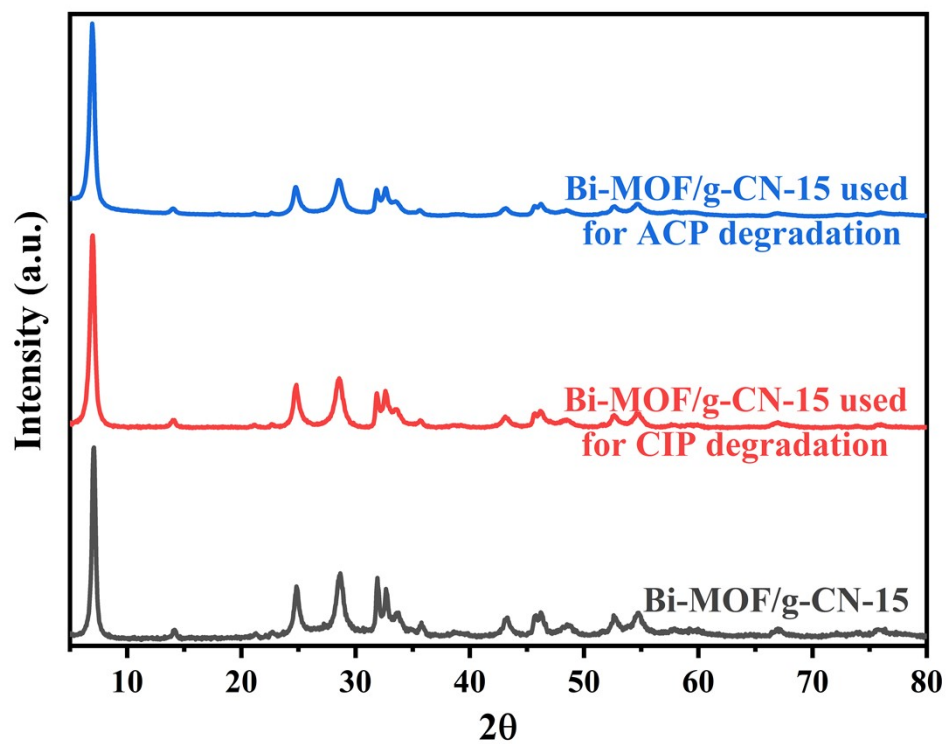


Fig. S4. PXRD of Bi-MOF/g-CN-15 before and after photodegradation.

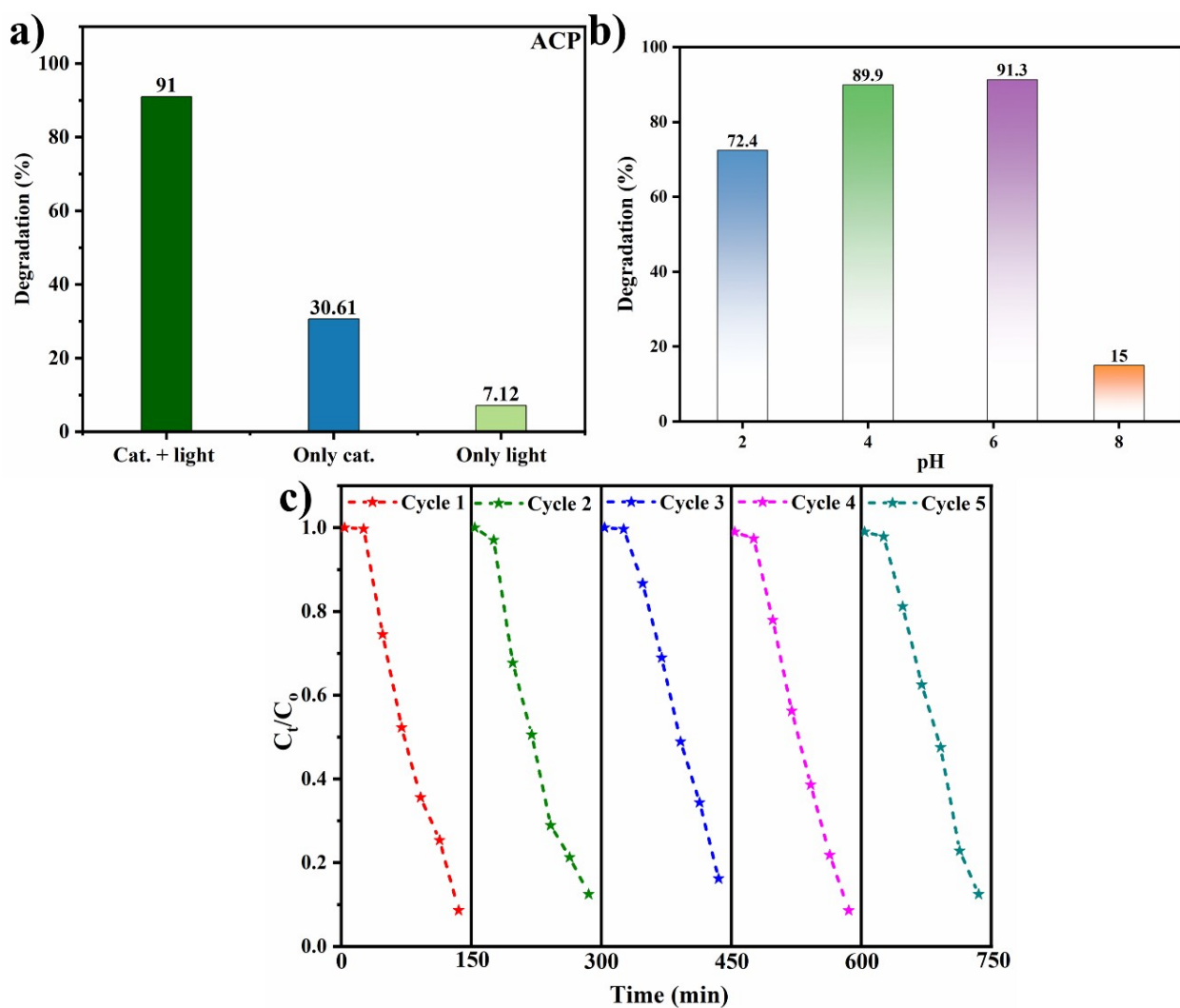


Fig. S5. ACP degradation (a) Control experiment, (b) Effect of pH, (c) Recycle experiments for g-CN, Bi-MOF, and Bi-MOF/g-CN-15.

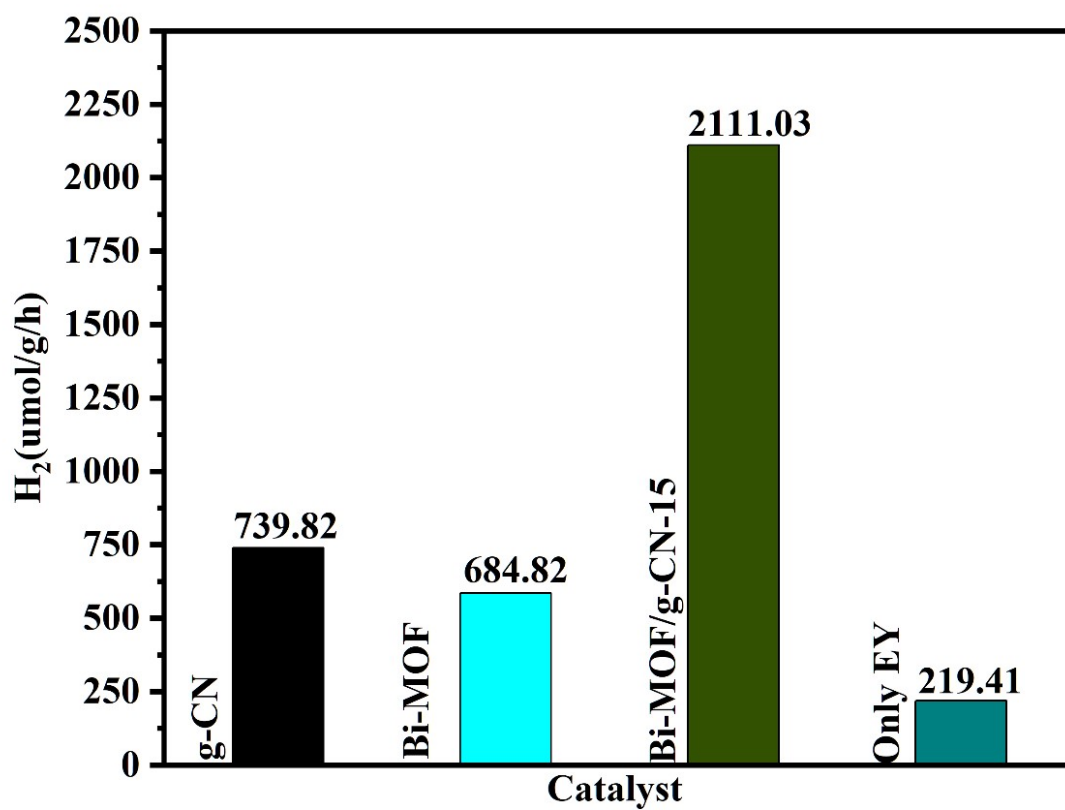


Fig. S6. H₂ production for g-CN, Bi-MOF, Bi-MOF/g-CN-15, and EY.

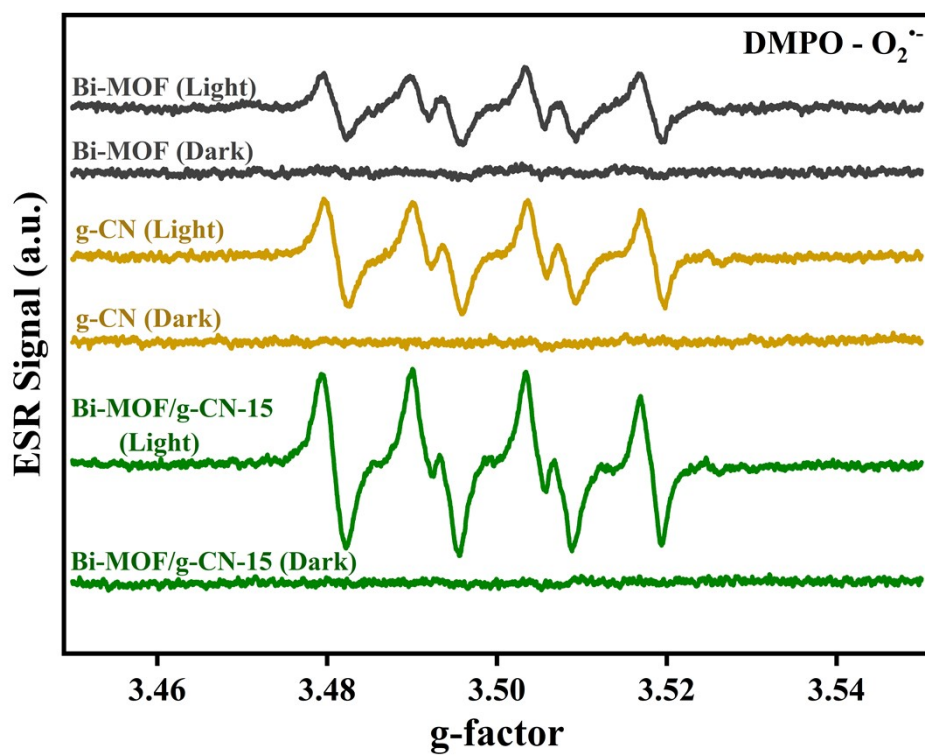


Fig. S7. ESR spin trapping for superoxide radicals for g-CN, Bi-MOF, and Bi-MOF/g-CN-15.