

Supplementary Information

“Visible-Light-Driven Photocatalytic Degradation of Ciprofloxacin and Cresol Red Dye with Simultaneous H₂O₂ Generation Using a Co–Al LDH/g-C₃N₅ Nanocomposite”

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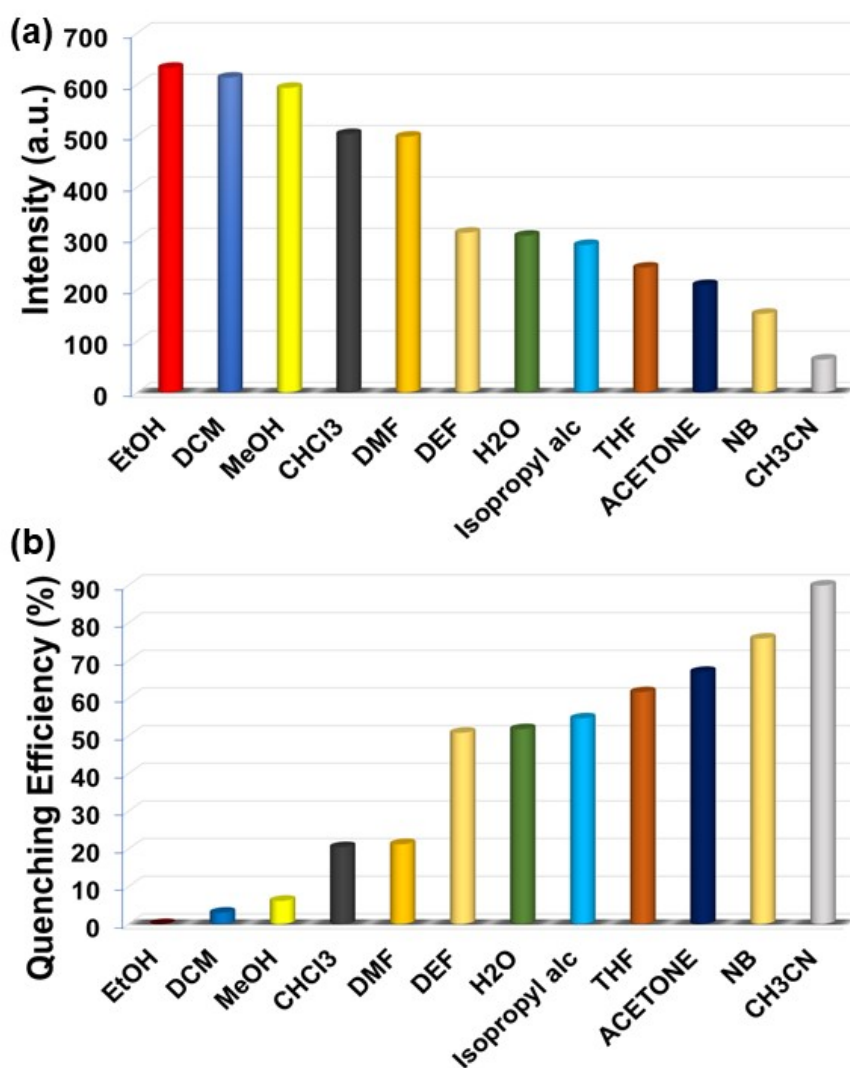


Fig. S1 (a) Fluorescence intensity measurements of Co-Al LDH in different solvent solutions, and (b) Comparative quenching efficiencies of Co-Al LDH in solvent solution.

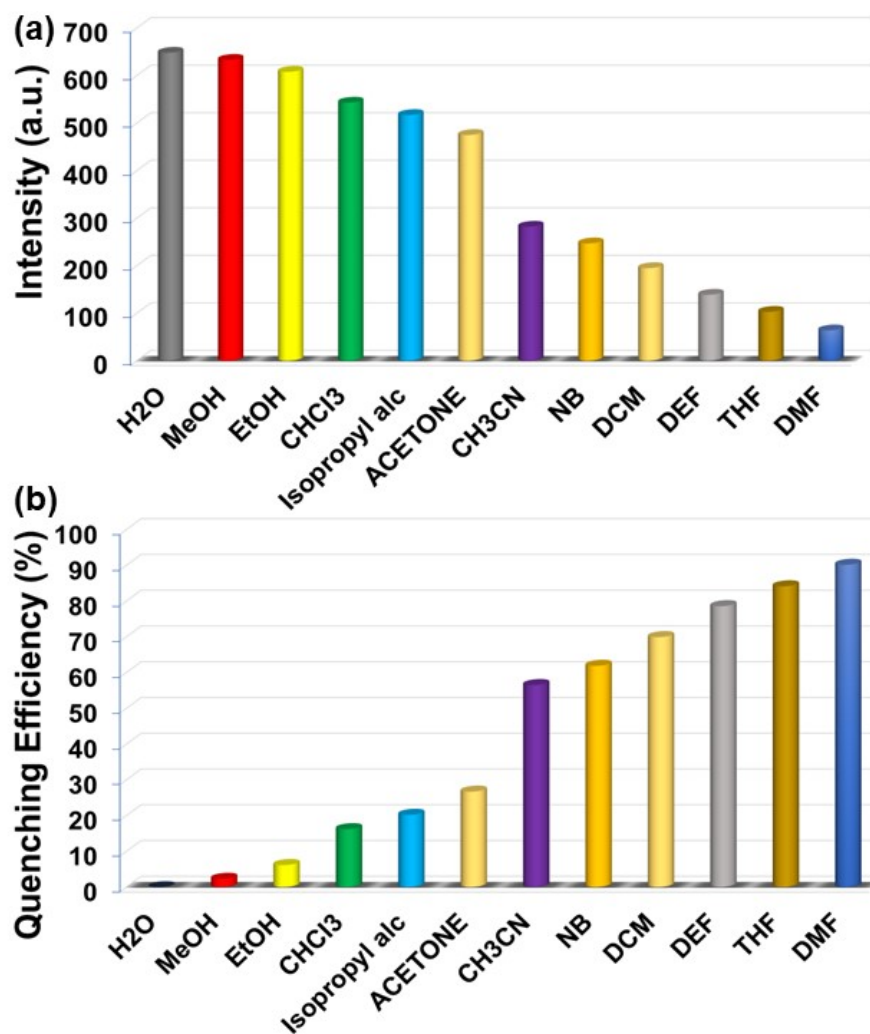


Fig. S2 (a) Fluorescence intensity measurements of g-C₃N₅ in different solvent solutions; and (b) Comparative quenching efficiencies of g-C₃N₅ in solvent solution.

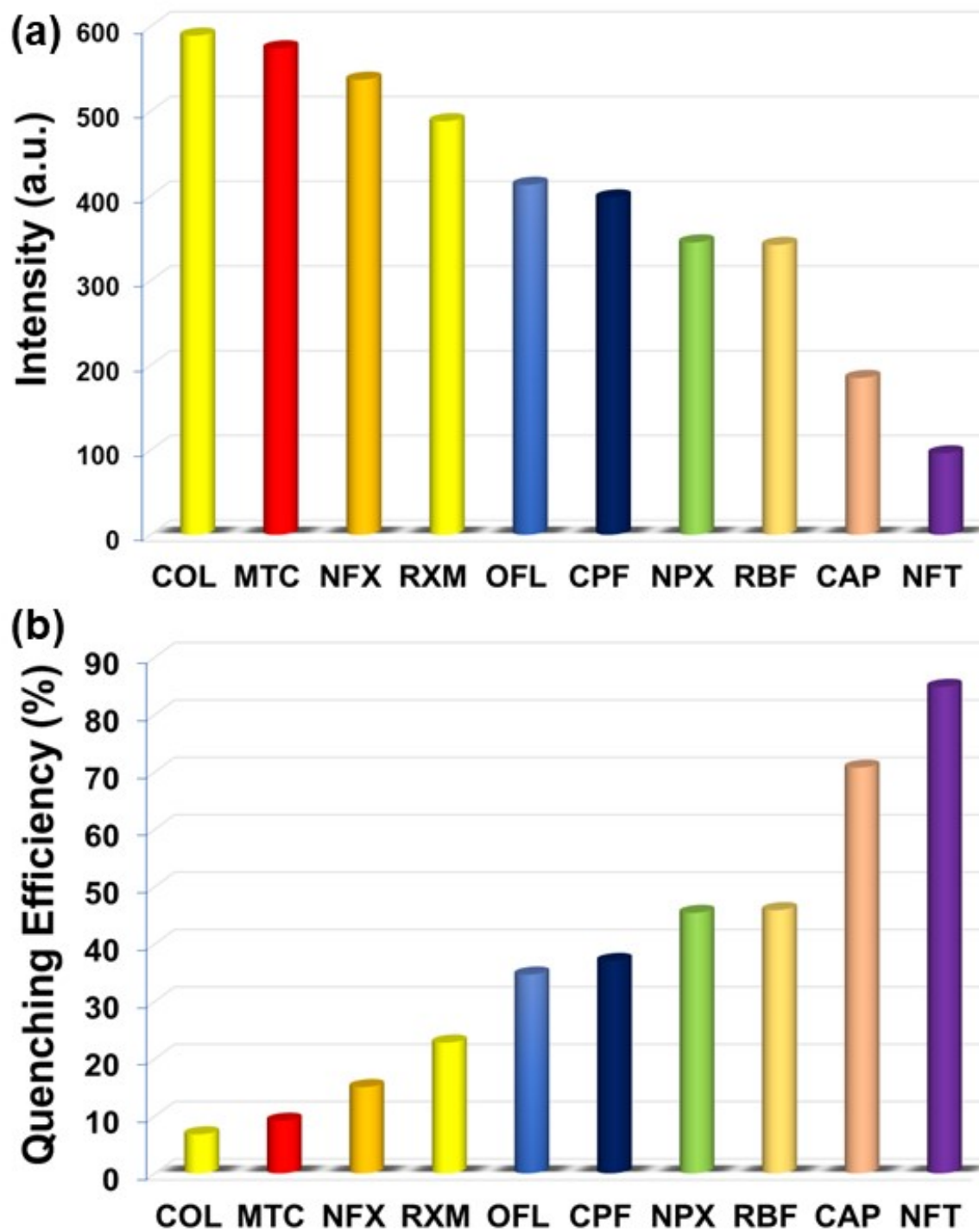


Fig. S3 (a) Fluorescence intensity measurements of Co-Al LDH in different antibiotic solutions; and (b) Comparative quenching efficiencies of Co-Al LDH in solvent solution with specific antibiotics.

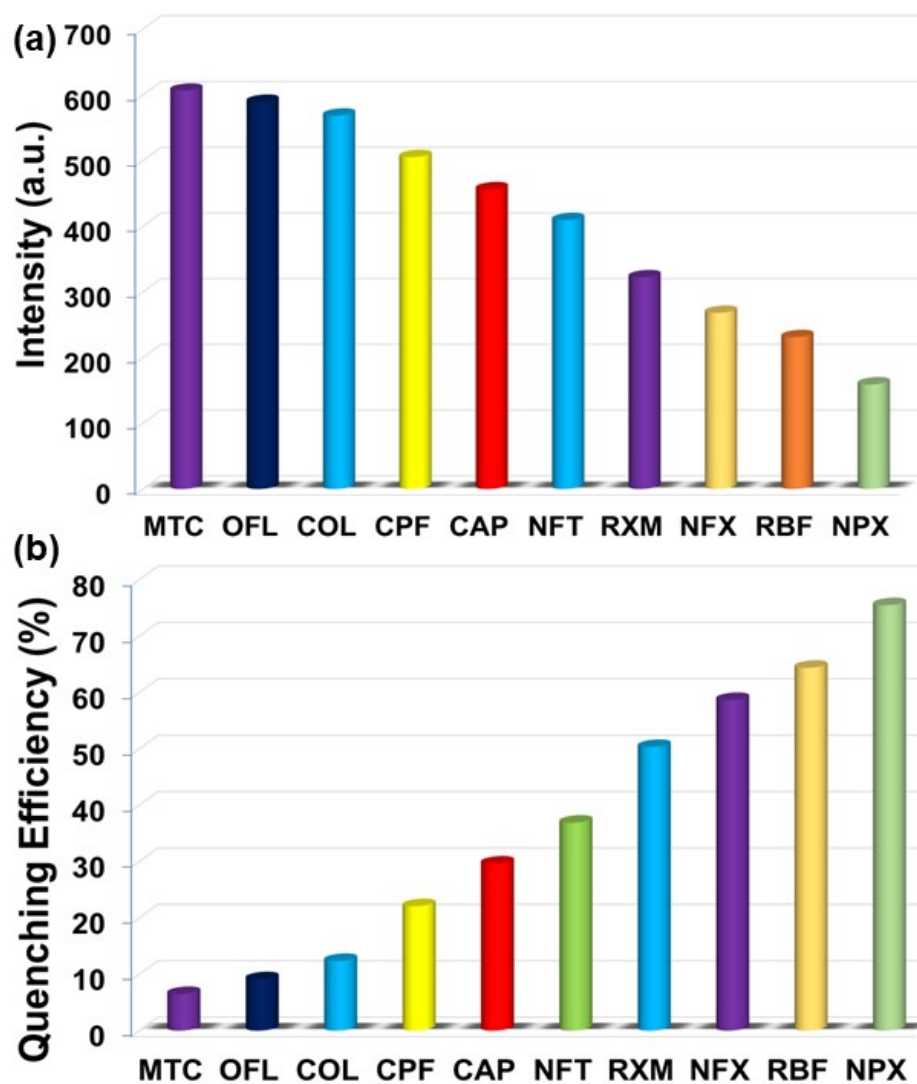


Fig. S4 (a) Fluorescence intensity measurements of g-C₃N₅ in different antibiotic solutions; and (b) Comparative quenching efficiencies of g-C₃N₅ in solvent solution with specific antibiotics.

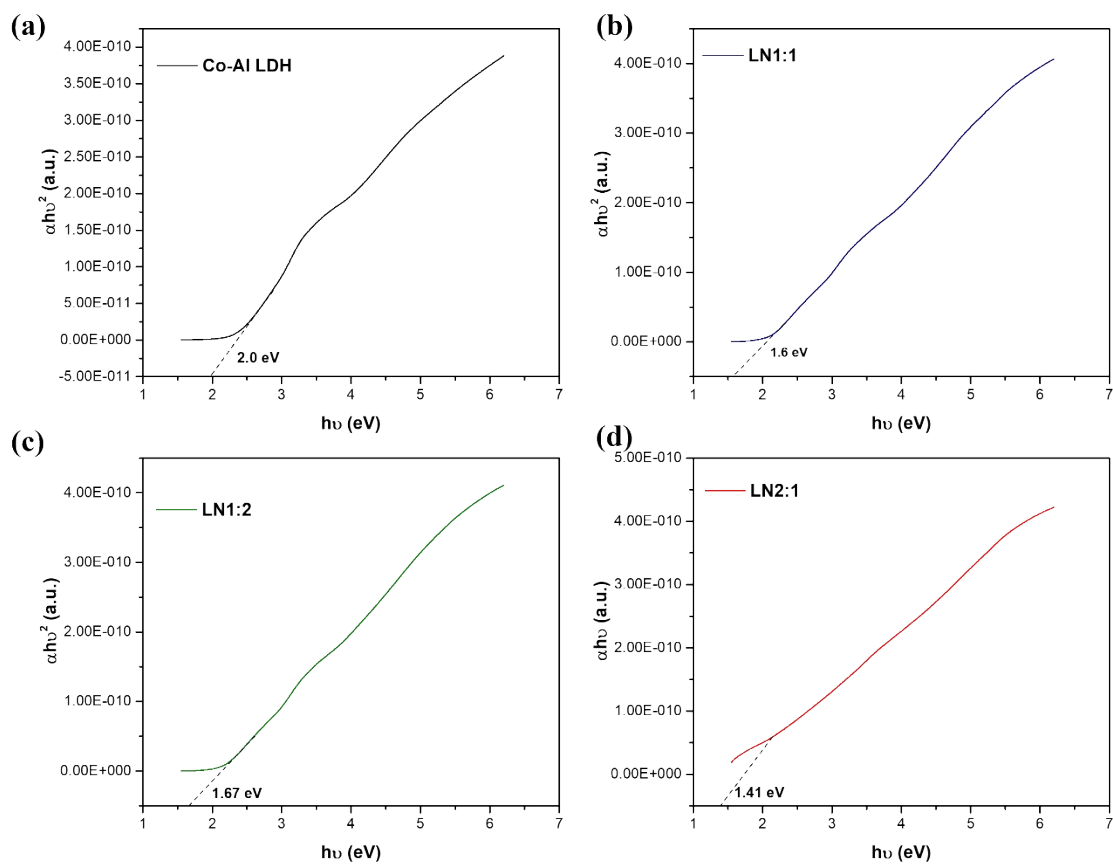


Fig. S5 Tauc plots for bandgap estimation of (a) Co-Al LDH (b) LN1:1 (c) LN1:2 and (d) LN2:1

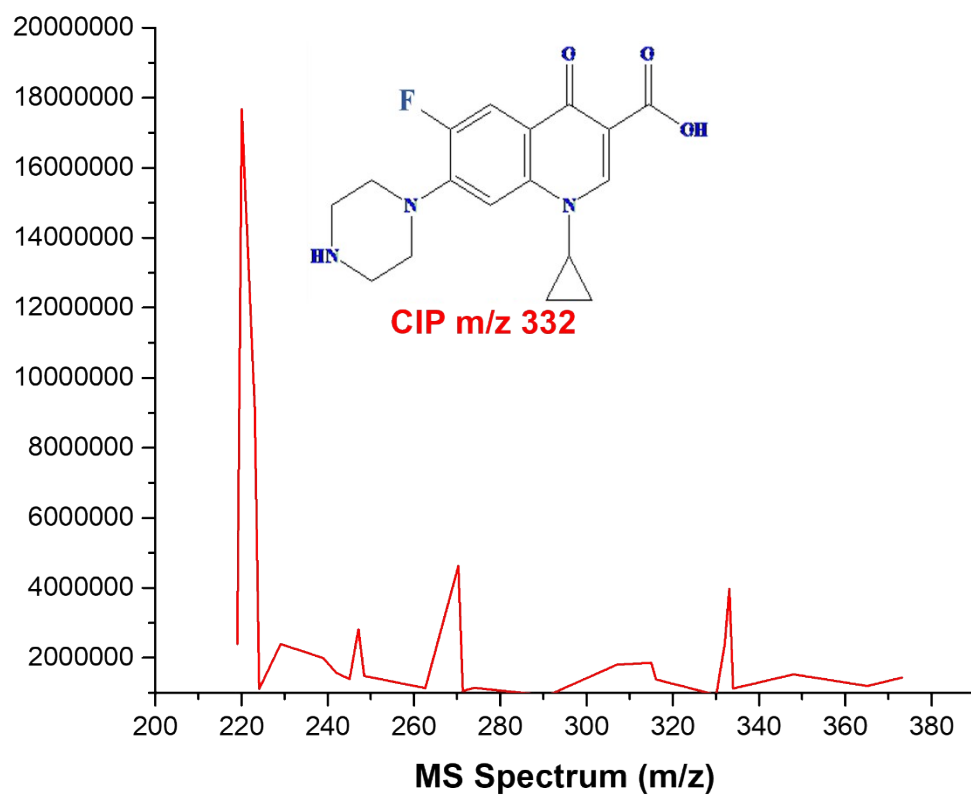


Fig.S6 LC-MS analysis of ciprofloxacin over LN2:1 composite after 120 mins of photodegradation