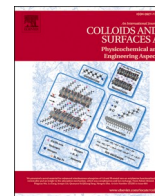




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An efficient novel NiCu@INA/rGO MOF hollow microspheres Z-scheme heterojunction catalyst for the photocatalytic degradation of tetracycline and simultaneous degradation of cationic and anionic Dyes

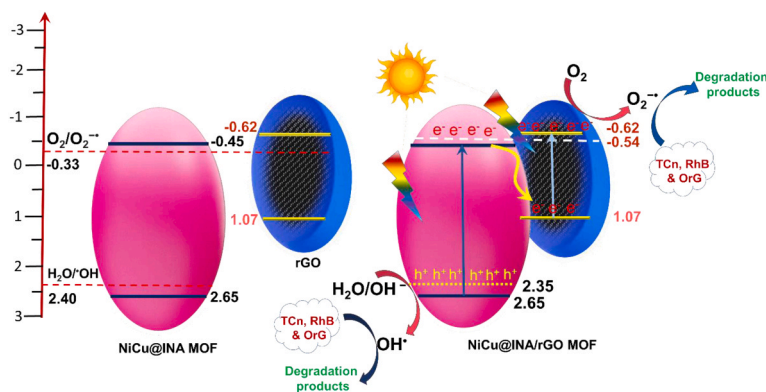
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HIGHLIGHTS

- Tailor-made NiCu@INA/rGO MOF system for the degradation of tetracycline and a mixture of dyes.
- Synergism between Ni, Cu, INA, and rGO to give enhanced photocatalysis.
- Scavenger, ESR, and Photocurrent response were used to unfold synergism.
- Mass spectral interpretation for the clear identification of reaction intermediates and the mechanism.
- Improved surface area, easy reaction system, and better reusability of catalyst make it robust.

GRAPHICAL ABSTRACT



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ABSTRACT

Bimetallic metal-organic framework materials have captivated considerable attention in photocatalysis because of their colossal properties like semiconducting, large surface area, and potent visible light harnessing ability. Self-aggregation and rapid recombination rates have greatly hindered their applications in photocatalysis. A

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