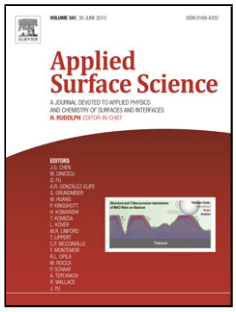

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CdS nanoparticles immobilized on porous carbon polyhedrons derived from a metal-organic framework with enhanced visible light photocatalytic activity for antibiotic degradation

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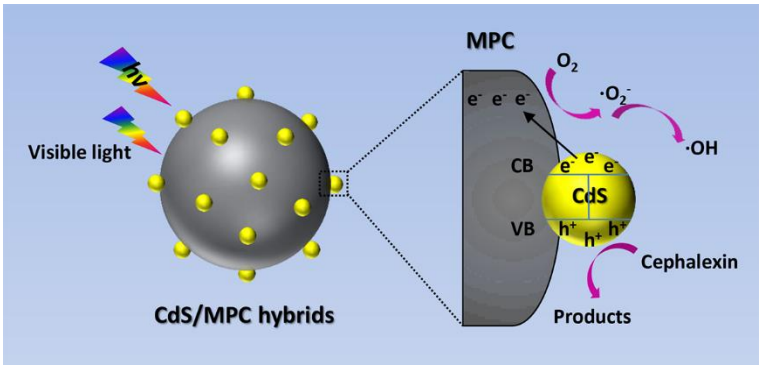
Graphical Abstract



Highlights

- • A novel CdS/MOF-derived porous carbon (MPC) composite was prepared.
- • The evenly disperse growth of CdS nanoparticles on the MPC surface was realized.
- • The CdS/MPC (20 wt%) showed the highest photocatalytic degradation rate.
- • The MPC as the electron acceptor promoted the separation of charges.

ABSTRACT