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# 0D/2D Fe<sub>2</sub>O<sub>3</sub> Quantum Dots/2D-C<sub>3</sub>N<sub>4</sub> for Enhanced Visible-Light-Driven Photocatalysis

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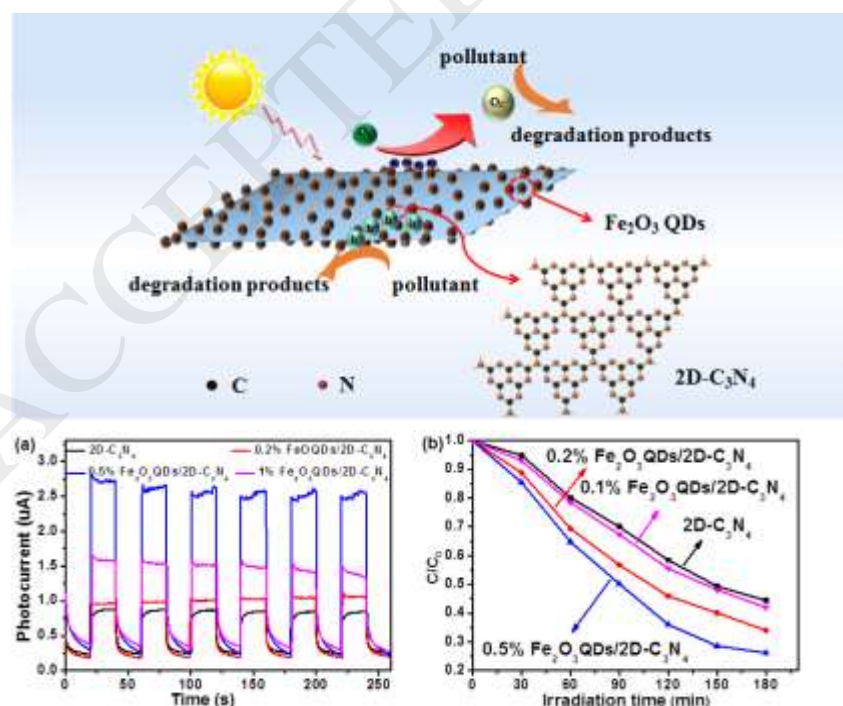
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Graphical abstract

The Fe<sub>2</sub>O<sub>3</sub> QDs/2D-C<sub>3</sub>N<sub>4</sub> composites are synthesized by combining ultrasonic dispersion with low temperature calcination. The composites feature several nanometers sized Fe<sub>2</sub>O<sub>3</sub> QDs well dispersed on 2D-C<sub>3</sub>N<sub>4</sub>, and the composites show high photocurrent response and photocatalytic activity. In addition, the Fe<sub>2</sub>O<sub>3</sub> QDs/2D-C<sub>3</sub>N<sub>4</sub> sample still maintains its satisfying stability with negligible activity reduction after four photoreactions.



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