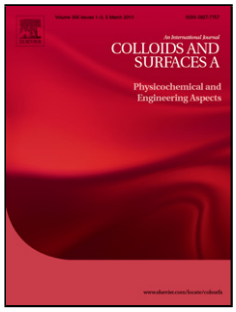

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0D/2D Fe_2O_3 Quantum Dots/2D-C_3N_4 for Enhanced Visible-Light-Driven Photocatalysis

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Graphical abstract

The Fe_2O_3 QDs/2D-C_3N_4 composites are synthesized by combining ultrasonic dispersion with low temperature calcination. The composites feature several nanometers sized Fe_2O_3 QDs well dispersed on 2D-C_3N_4, and the composites show high photocurrent response and photocatalytic activity. In addition, the Fe_2O_3 QDs/2D-C_3N_4 sample still maintains its satisfying stability with negligible activity reduction after four photoreactions.