

Electronic Supplementary Information

Synthesis of Three-Dimensionally Ordered Macroporous Composite Ag/Bi₂O₃-TiO₂ by Dual Templates and its Photocatalytic Activities for Degradation of Organic Pollutants under Multiple Modes

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SUMMARY

The emission spectrum of microwave discharge electrodeless lamp and the microwave assisted photocatalytic reaction device were shown in Fig. S1, S2.

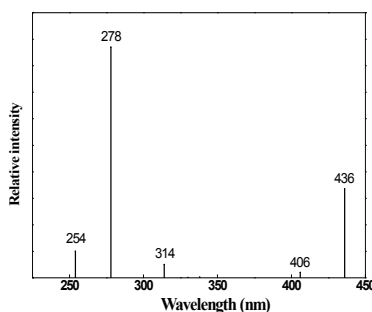


Fig. S1 Emission spectrum of microwave discharge electrodeless lamp

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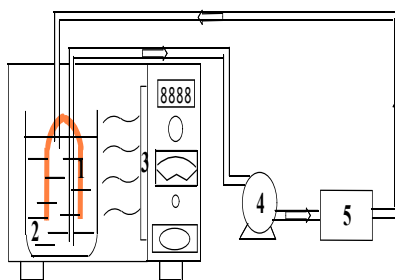


Fig. S2 The picture of microwave-assisted photocatalytic apparatus (1- microwave discharge electrodeless lamp, 2 - reaction solution, 3 - microwave transmitter, 4 - peristaltic pump, and 5-cooler)

The adsorption test results of CV using different catalysts were performed as follows: a certain amount of photocatalyst was dispersed into CV solution by ultrasound 10 min, and then the suspension was magnetically stirred in dark. At definite time interval, taking 3 mL solution into a centrifuge tube and the catalyst was removed by centrifugation after the completion of the reaction. The concentration of CV in the adsorption reaction was analyzed by a UV–Vis spectrophotometer (TU-1901, China) at 590 nm.

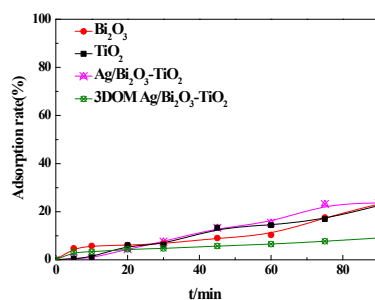


Fig. S3 The adsorption test results of CV using different catalysts

