Comparison of g-C3N4 and ZnO/g-C3N4 Nanocomposite for Their Photocatalytic Activities

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By constructing $ZnO/g-C_3N_4$ heterostructure, it was shown that Z-Scheme heterojunction forms between these materials [1,2]. Graphitic carbon nitride was synthesized by thermal treatment of melamine and ZnO was synthesized by a facile hydrothermal method. Physical mixture of ZnO/ g-C₃N₄ was obtained by simple calcination of ZnO – g-C₃N₄ physical mixture [3]. The photocatalytic activity of g-C₃N₄ is enhanced with the formation of heterojunction with ZnO due to enhanced charge separation.

References [1] Appl. Catal. B, 2021, 282, 1195383. [2] Appl. Catal. B, 2021, 283, 119638. [3] Appl. Surf. Sci., 2019, 466, 133–140.