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Fabrication of Z-scheme Bi₃O₄Cl/g-C₃N₄ 2D/2D heterojunctions with enhanced interfacial charge separation and photocatalytic degradation various organic pollutants activity

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Highlights

- The novel Z-scheme Bi₃O₄Cl/g-C₃N₄ 2D/2D heterojunctions were prepared firstly by solid phase calcination method.
- The Z-scheme Bi₃O₄Cl/g-C₃N₄ 2D/2D heterojunctions showed the enhanced photocatalytic degradation activity and universality for various pollutants.
- The enhanced photocatalytic activity can be ascribed to the interfacial interaction between 2D Bi₃O₄Cl and 2D g-C₃N₄, which enlarged the specific surface area and improved separation efficiency of photogenerated charge carriers.

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