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Title: Highly efficient degradation of phenol over a Pd-BiOBr Mott-Schottky plasmonic photocatalyst

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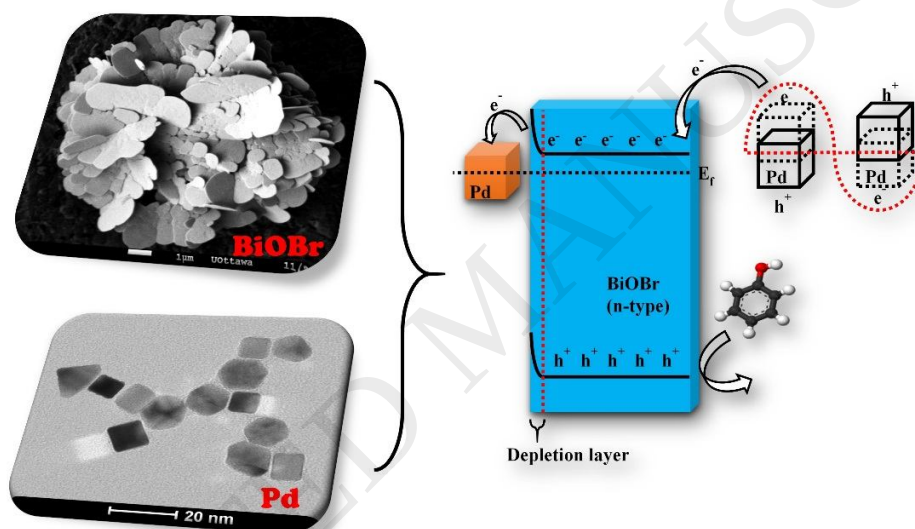
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Graphical abstract



HIGHLIGHTS:

1. Pd cubes were successfully prepared and electrostatically assembled with BiOBr
2. A Mott-Schottky junction may be formed between Pd and BiOBr
3. Pd nanoparticles may be activated, due to SPR effect
4. Pd modified BiOBr exhibited excellent activity in photocatalytic removal of phenol

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