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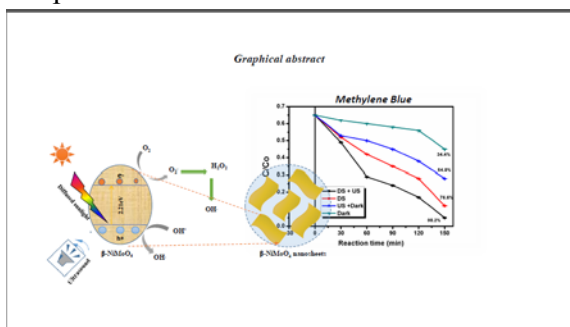
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Graphical abstract



Highlights:

- β -nickel molybdate nanosheets as new visible light photocatalysts.
- **Enhanced photo-carrier generation and charge transfer.**
- Efficient sonophotocatalytic degradation of methylene blue under diffused sunlight.

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