

Contemporary Applications

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Journal: <average periodical, not specified>

Peer Review Verdict: Recommend publication after minor revisions

Key Strengths:

- Comprehensive coverage of molecular electronic transitions
- Rigorous presentation of quantum mechanical framework and methods
- Extensive validation against experimental data
- Insightful structure-property relationship analysis
- Identification of challenges and future directions

Suggestions for Improvement:

- Expand discussion of multi-reference methods
- Provide more specific examples of rational molecular design applications
- Discuss potential of machine learning approaches
- Add glossary or list of abbreviations
- Ensure consistent reference and figure caption formatting

Publication Recommendation: High-impact journal

Date of Review: 17 January 2026