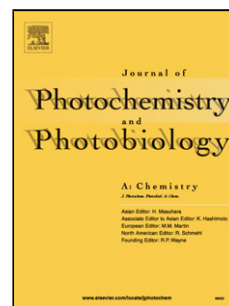


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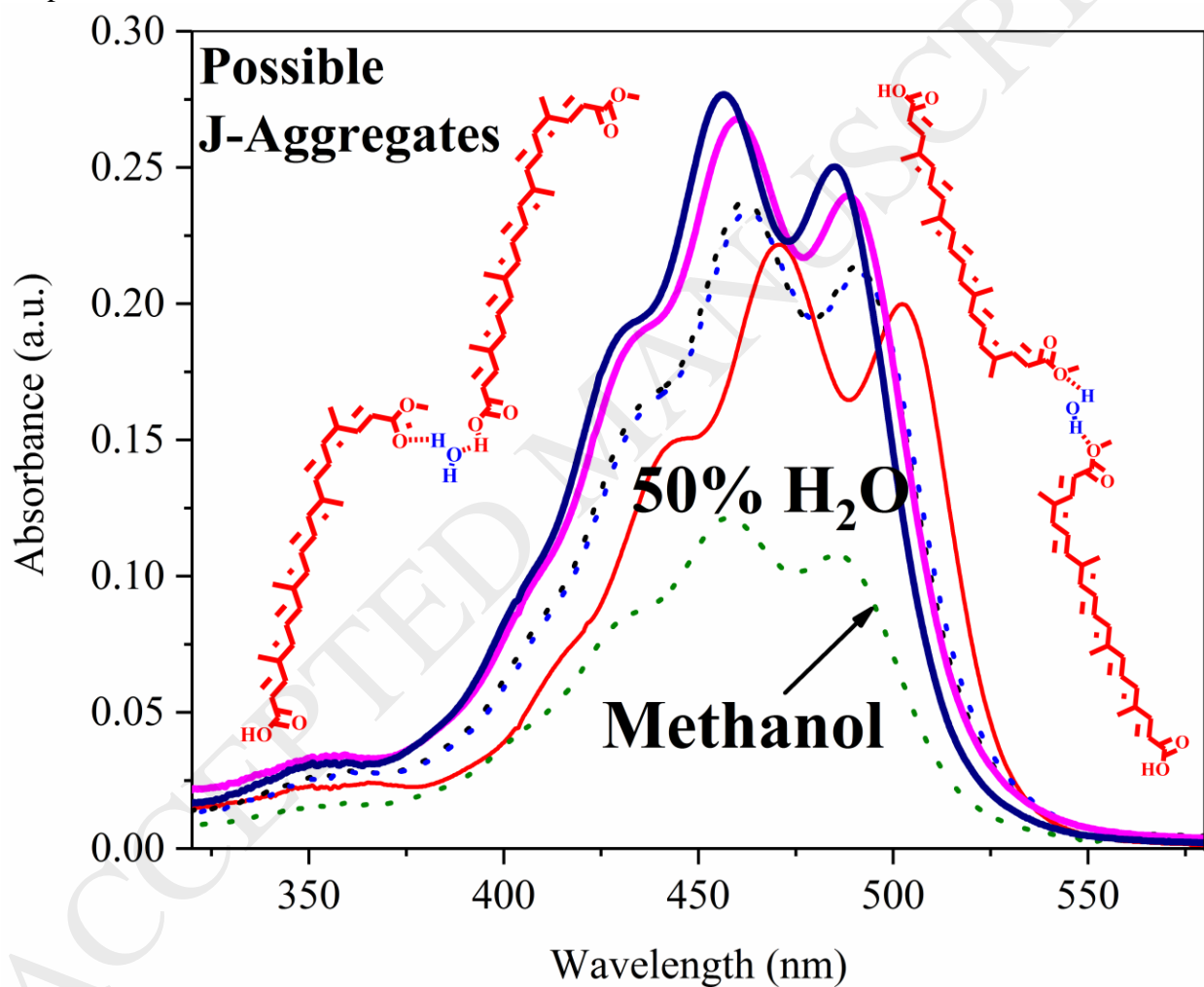
# The Carotenoid Bixin: Optical Studies of Aggregation in Polar/Water Solvents

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Graphical Abstract



Highlights:

- Bixin exhibits a 4 nm red shift in a 50% water-methanol solution, suggesting possible J-aggregation.
- The lack of H aggregation can be traced to the fact that the ground state geometry for bixin is *cis* and not *trans*, resulting in an unfavorable geometry for H aggregate formation.

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