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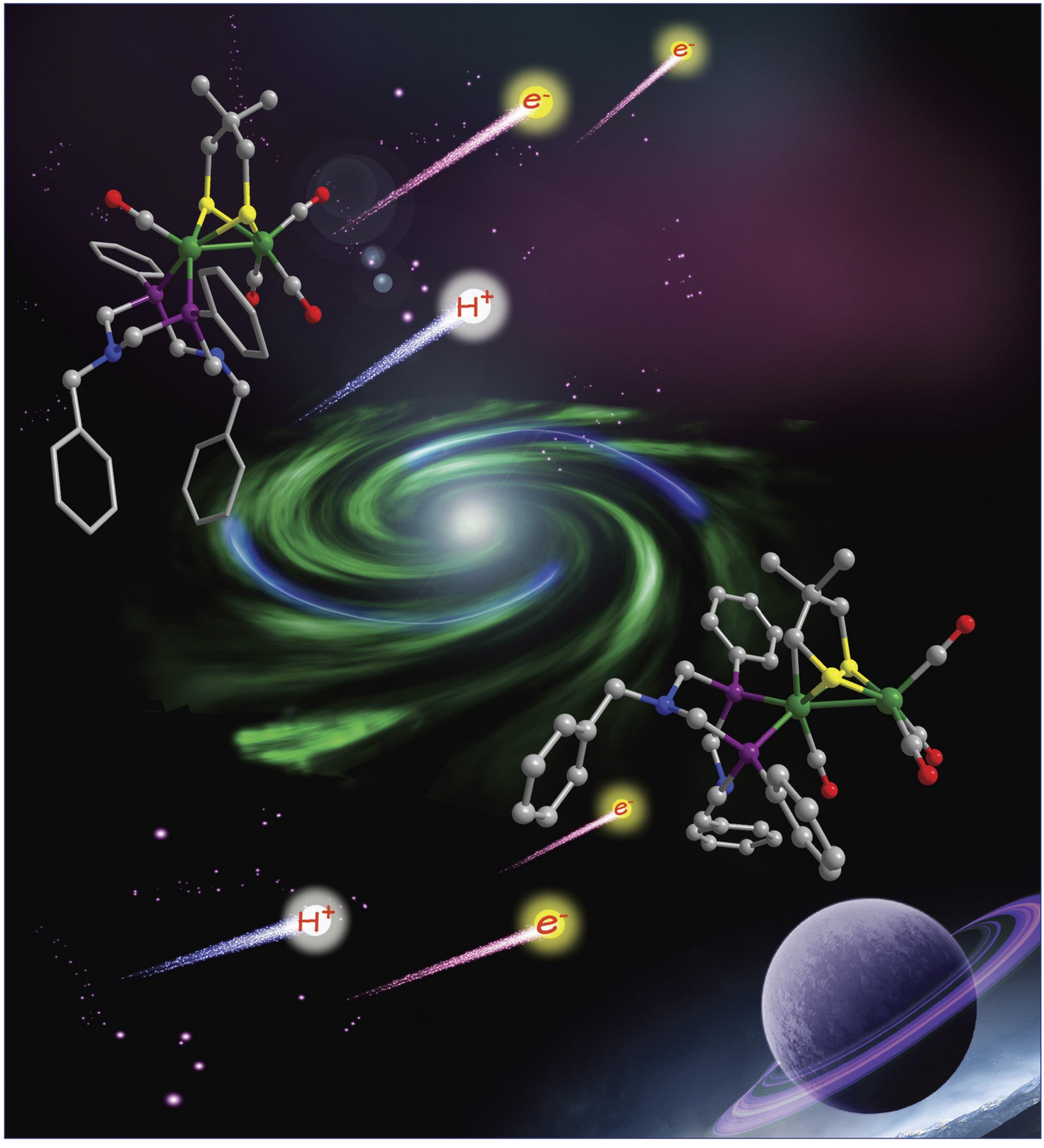

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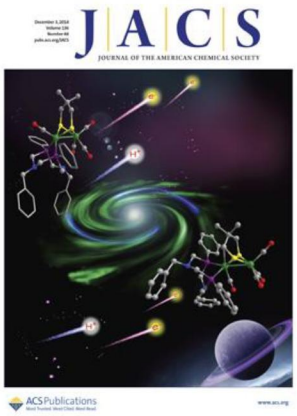

A [FeFe]-hydrogenase active site model containing a diphosphine ligand fitted with a pendant amine base accommodates iron-mediated intramolecular C−H heterolytic cleavage via an agostic C−H interaction, with proton removal by the nearby pendant amine. The reversibility of the oxidation/deprotonation reaction is demonstrated by subsequent reduction in the presence of acid. See Wang and co-workers, p 16817.

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