

## Advancing Bismuth Redox Catalysis

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We will present how our group has unlocked the ability of the bismuth (Bi) to maneuver between different oxidation states in a catalytic redox cycle for organic synthesis.<sup>1-6</sup> We will show how Bi challenges the current dogmas of catalysis and is capable of performing one- and two-electron catalysis. Moreover, we will also show how the photochemistry of Bi complexes can also be unlocked to the service of organic synthesis. Finally, a selection of the organometallic curiosities we discovered along the way on bismuth will also be presented.

