



COMPROPORTIONATION-BASED AUTOCATALYTIC CYCLES AND RELATED METHODS

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The Invention

UW-Madison researchers have developed an approach capable of identifying numerous (200+) inorganic autocatalytic cycles. Their method combined a comproportionation reaction with an auxiliary oxidation or reduction reaction (coined Comproportionation-based Autocatalytic Cycle or CompAC). When combined, these distinct sets of chemical reactions stoichiometrically form an autocatalytic cycle of a compound at an intermediate redox state (figure linked below). The result is the identification of reactions which consume a chemical species to generate more autocatalysts.

Tech Fields

- [Research Tools : Other research tools](#)

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Figures

Comproportionation-based Autocatalytic Cycle (CompAC)

