

Review of: "Another rate view on autocatalytic reactions"

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Potential competing interests: No potential competing interests to declare.

Interesting paper on finding deeper insights on autocatalytic reactions. These reactions play a significant role in a range of processes, such as chemical oscillations, polymerization reactions, enzyme-catalyzed reactions, and certain biochemical pathways. Autocatalysis also has implications in the study of prebiotic chemistry and the origin of life, as it provides a mechanism for self-replication and self-propagation of molecules.

Clarify the following:

Add few autocatalytic reactions examples, which are studies well in the recent times such as, Ester Hydrolysis, Enamine Formation, Oxidation of Alcohols, Epoxidation of Alkenes and few polymerization reactions, and then get into the modelling and simulation work would be more appropriate.

Page 4: Table:1, Verify the rate constants are valid with any other co-workers work in the literature?

Page 4: Specify the order of the reaction, specific type of reaction used including reaction scheme, reactants and products, and then get into explanation.

Page 4: What happens if the reactions are reversible?, is still this hypothesis valid?

Page 5: Ostwald's reaction- Explain the reaction scheme and stoichiometry including structure. Is this reaction a batch reaction, or a semi batch?

Page 6: Justify the reasons in details for a non- autocatalytic reaction

Page 7: Explain Landolt reaction scheme with structure and significance of the reaction, and examples

Page 8; Table 4: What is the case when its not an equimolar reactions, say 1:1.2?

Page 10: Why cant we consider the limiting reagent (Which are rate controlling steps) concept and work on the schemes, where the limiting reagent are tracked, rather tracking the standard substrates?

Page 13: In the conclusion, provide few common reaction examples, and how we can delve the reaction understanding in detail.

Note: Get these corrections from the researcher and proceed with the publication. I'm fine with this article being published.

Good Luck

