

## Accepted Manuscript

Title: Intensification of the rate of diffusion controlled catalytic and electrochemical reactions in a new stirred tank reactor with a multi cylindrical blade impeller

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### Highlights

- A new reactor for L-S diffusion controlled electrochemical or catalytic reactions
- Electro-winning of metals from dilute solutions as it has a good mixing efficiency
- Conducting reactions involving gaseous reactants as flue gas desulphurization
- Used as a catalytic reactor for photocatalytic reactions and biological reactions
- Catalytic (removal of organic wastes & organic synthesis of gaseous reactants).

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