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Title: Mass transfer study of water deoxygenation in a rotor-stator reactor based on principal component regression method

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- Water deoxygenation in a rotor-stator reactor (RSR) was studied.
- Mass transfer in RSR was studied by principal component regression (PCR) method.
- PCR model predicted mass transfer coefficients ( $K_x a$ ) well for water deoxygenation.
- $K_x a$  predicted by PCR agreed with experimental values with deviations within 15%.

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