

Accepted Manuscript

Title: Chitosan as a peroxidase mimic: Paper based sensor for the detection of hydrogen peroxide

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PII: S0925-4005(18)31051-7
DOI: <https://doi.org/10.1016/j.snb.2018.05.142>
Reference: SNB 24798

To appear in: *Sensors and Actuators B*

Received date: 22-2-2018
Revised date: 22-5-2018
Accepted date: 24-5-2018

Please cite this article as: K.V.Ragavan, Syed Rahin Ahmed, Xuan Weng, Suresh Neethirajan, Chitosan as a peroxidase mimic: Paper based sensor for the detection of hydrogen peroxide, *Sensors and Actuators B: Chemical* <https://doi.org/10.1016/j.snb.2018.05.142>

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Chitosan as a peroxidase mimic: Paper based sensor for the detection of hydrogen peroxide

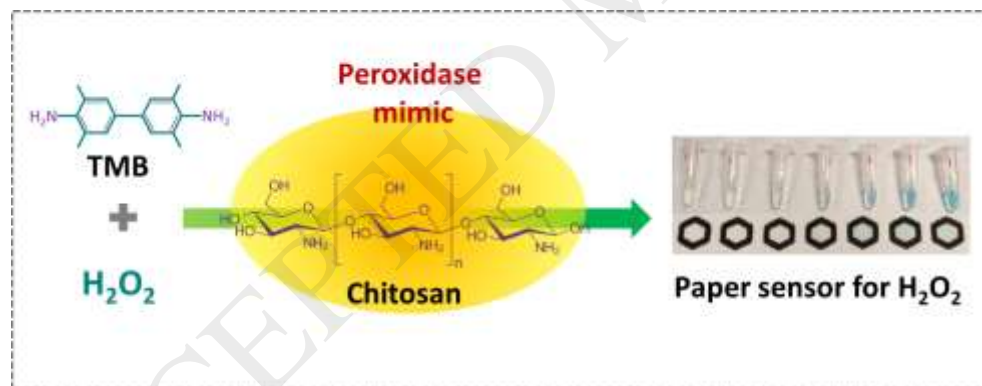
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Equal contributions

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Graphical abstract



Highlights

- We report an unique peroxidase mimicking catalytic property of chitosan
- Chitosan breaks H₂O₂ and forms highly oxidative hydroxyl ions and free radicals
- A paper based sensor for the detection of H₂O₂ was developed
- Chitosan reduces the complexity of sensors with wide range of applications

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