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Preparation of a visual pH-sensing film based on tara gum incorporating cellulose and extracts from grape skins

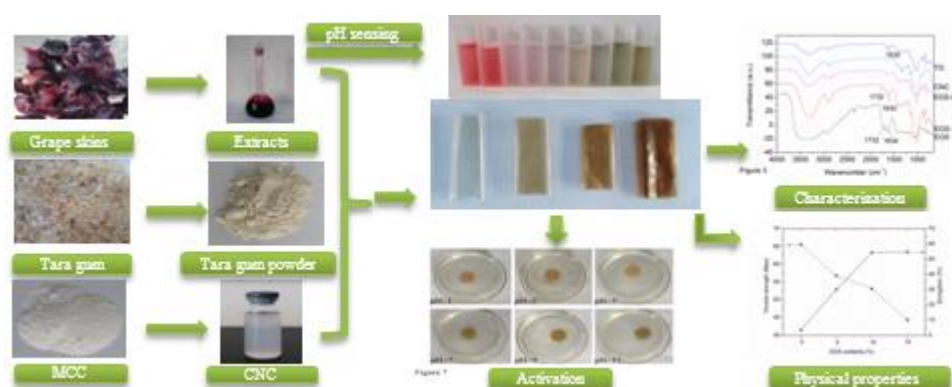
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Graphical abstract



Research Highlights

- Cellulose nanocrystals were blended with tara gum to develop sensing films.
- Extracts from grape skin were incorporated into the films.
- The composite films were sensitive to pH changes.
- The sensing films could be potentially used to monitor the food quality.

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