

Accepted Manuscript

Particle swarm optimization as alternative tool to sensory evaluation to produce high-quality low-sodium fish sauce via electro dialysis

San Ratanasanya, Nathamol Chindapan, Jumpol Polvichai, Booncharoen Sirinaovakul, Sakamon Devahastin



PII: S0260-8774(18)30073-6

DOI: [10.1016/j.jfoodeng.2018.02.018](https://doi.org/10.1016/j.jfoodeng.2018.02.018)

Reference: JFOE 9173

To appear in: *Journal of Food Engineering*

Please cite this article as: San Ratanasanya, Nathamol Chindapan, Jumpol Polvichai, Booncharoen Sirinaovakul, Sakamon Devahastin, Particle swarm optimization as alternative tool to sensory evaluation to produce high-quality low-sodium fish sauce via electro dialysis, *Journal of Food Engineering* (2018), doi: 10.1016/j.jfoodeng.2018.02.018

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- PSO was used to optimize electrodialysis desalination of liquid food
- Changes in key quality indicators were considered to arrive at optimal salt conc.
- Values of quality indicators were generated via our previous phenomenological model
- No sensory evaluation data were needed as in other optimization algorithms
- PSO with instrumental analysis data yielded same result as independent sensory test

Download English Version:

<https://daneshyari.com/en/article/6664595>

Download Persian Version:

<https://daneshyari.com/article/6664595>

[Daneshyari.com](https://daneshyari.com)