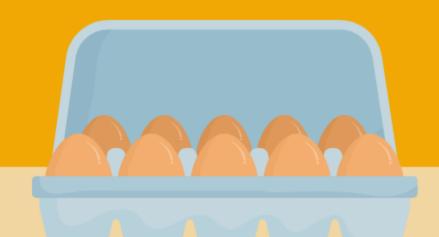


## **EGG PRESERVATION TECHNIQUES: A REVIEW** OF CONVENTIONAL AND EMERGING METHODS

BiosysFoodEng 2025



**Treatment** 

**Duong Hanh Hoa, Nguyen Le Phuong Lien\*** Institute of Food Science and Technology, Hungarian University of Agriculture and Life Sciences, **Budapest, Hungary** 





## **OBJECTIVE**

This study aim to provide a comprehensive overview of conventional and emerging preservation techniques for shell eggs.



The methods are assessed based on their effectiveness in reducing microbial load-primarily Salmonella-and preserving egg freshness, measured by Haugh Unit, yolk index, and pH.



treatments.

CONCLUSION

promise over traditional heat

**Combining preservation** 

technologies can improve

microbial control and preserve

Further studies should focus on

optimizing these methods for

egg quality more effectively

than single treatments.

commercial use.

Non-thermal technologies show

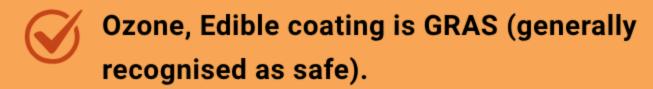


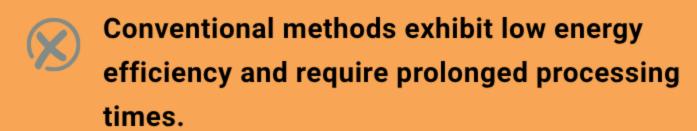


## PROS AND CONS









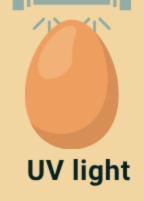
- Ozone need precise control to avoid sensory and oxidative issues.
- Microwave, Radiofrequency, UV light face issues like uneven heating and limited penetration.







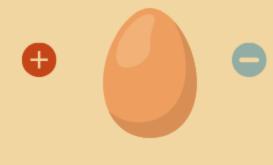
Hot water immersion





Hot/humid air





Radiofrequency

