



Planetary ball-mill as a versatile tool to controlled potato starch modification to broaden its industrial applications

E.A. Juárez-Arellano^a, M. Urzua-Valenzuela^b, M.A. Peña-Rico^c, A. Aparicio-Saguilan^c, M. Valera-Zaragoza^a,
A.A. Huerta-Heredia^c, A.K. Navarro-Mtz^c  

[Show more](#) 



Share



Cite

<https://doi.org/10.1016/j.foodres.2020.109870> 

[Get rights and content](#) 

Highlights

- Energy supplied by the ball-mill tune the physicochemical properties of starch.
- Three stages of transformation of potato starch through energy supplied can be.
- identified.
- Above 4.5J/g of energy supplied, potato starch loses every characteristic property.
- High-energy ball-milling not only modified but also destroy potato starch.

Abstract