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Authors: Xichuan Zhai, Caiping Zhu, Yang Zhang, Jingru Sun, Aamina Alim, Xingbin Yang



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**Chemical characteristics, antioxidant capacities and hepatoprotection of polysaccharides from pomegranate peel**

Xichuan Zhai, Caiping Zhu\*, Yang Zhang, Jingru Sun, Aamina Alim, Xingbin Yang\*

Shaanxi Engineering Laboratory for Food Green Processing and Safety Control,  
College of Food Engineering and Nutritional Science, Shaanxi Normal University,  
Xi'an 710062, China

**Corresponding author**

Tel.: +86-29-85310517; Fax: +86-29-85310517

E-mail address: zcaiping@snnu.edu.cn; xbyang@snnu.edu.cn

**Highlights**

- A novel heteropolysaccharide was extracted from pomegranate peel.
- PPP has good antioxidant activity *in vitro*.
- PPP had a prominent preventive effect against CCl<sub>4</sub>-induced liver injury.
- Pathological test confirmed PPP could alleviate CCl<sub>4</sub>-caused histological lesion.
- PPP is a good natural source for dietary supplement and therapeutic application.

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