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摘要: 大豆连作导致产量和品质下降、病虫害加剧等障碍现象发生, 研究连作大豆化感作用对揭示大豆连作障碍机理、克服大豆连作障碍具有重要的意义。该文对连作大豆根系分泌物、根茬腐解物、土壤有机化合物、土壤微生物和地上部淋洗液化感作用的研究进展进行了综述; 提出了大豆化感作用未来的研究方向, 以期今后大豆化感作用研究提供参考。

Abstract: Allelopathy is a biological phenomenon by which an organism produces one or more biochemicals that influence the growth, survival, and reproduction of other organisms. The continuous cropping of soybean leads the decrease of yield and quality and aggravates the plant disease and pest and, a detail understanding allelopathic interactions is important for revealing and overcoming the obstacle of continuous cropping soybean. The paper summarized the allelopathy of root exudates, decomposition products from soybean stubs, soil organic compounds, soil bacteria, aqueous extracts of above ground for continuous cropping soybean and, prospected the the research directions on soybean allelopathy.

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