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Industrial Crops and Products

**ABSTRACT:**

Fresh Ginkgo biloba seeds (GBS) contain rich bioactive compounds but higher Ginkgotoxin and ginkgolic acid contents have dwindled its application. Though drying can lower the Ginkgotoxin and ginkgolic acid contents, it can also have an adverse effect on the bioactivity and product quality. Although there are several drying methods, infrared drying offers lower drying time, high energy savings and product quality, therefore the optimization of the process parameters is paramount. In this study, Plackett-Burman Design (PBD)-Response Surface Methodology was systematically used to optimize infrared-drying parameters of GBS. Screening of factors by PBD indicated temperature, time and height contributed significantly to moisture content (MC), colour change ( $\Delta E$ ), total phenolic content (TPC) and Ginkgotoxin (MPN). The significant factors were further investigated using rotatable central-composite design. The optimum conditions were temperature (80°C), time (159.68 min), and height (12 cm). Satisfactory results were (6.09±0.15)%, 5.56±0.45, (6.25±0.38) mg gallic acid equivalent/g, and (50.57±1.10) µg/g for MC,  $\Delta E$ , TPC and MPN, respectively, were obtained. This shows there was an increase in TPC, appreciable  $\Delta E$ , MC and a drastic reduction in MPN (5.45 fold) compared with fresh GBS. The quality assessment showed higher pyridoxine, antioxidant activities and total flavonoid, lower enzyme activity and ginkgolic acid (10 fold), granular adhesion (from the micrograph), and satisfactory product quality. This shows the infrared-dried GBS under these optimum conditions could be useful for food and industrial production as a functional food and nutraceutical.

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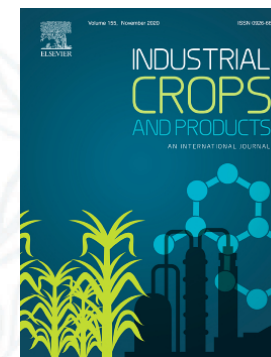
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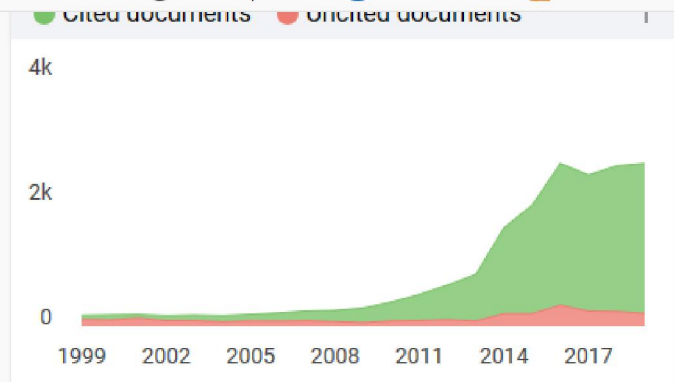
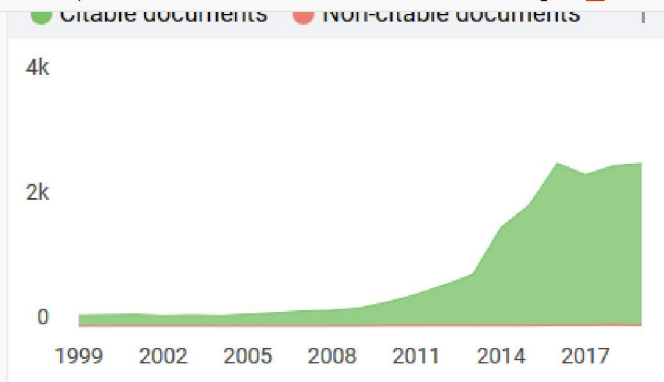
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