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Berdasarkan surat Saudara Dr. Ir. Gatot Priyanto, M.S. tanggal 03 Agustus 2021, Dekan Fakultas Pertanian Universitas Sriwijaya menugaskan Tenaga Pendidik Fakultas Pertanian, Saudara :

Nama : Dr. Ir. Gatot Priyanto, M.S.
NIP : 196005291984031004
Pangkat/golongan : Pembina Tk.I/(IV/b)
Jabatan : Lektor Kepala

sebagai **Reviewer** karya ilmiah dengan judul : "**The Addition of Gambir Catechin Extract In The Production of Functional Robusta Coffee Powder**", pada Journal Food Science and Technology, Jurnal Internasional Bereputasi dan Berdampak Faktor (Q2-Scopus SJR 0,49 2020, H-Index 43) ISSN : 01012016, 1678457X, Penerbit : Sociedade Brasileira de Cienciae Tecnologia de Alimentos, SBCTA Brazil.

Surat tugas ini berlaku sejak tanggal 01 Agustus 2021 sampai dengan selesainya kegiatan tersebut.

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Dikeluarkan di : Indralaya

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Dear Dr. -:

Manuscript ID CTA-2021-0557 entitled "THE ADDITION OF GAMBIR CATECHIN EXTRACT IN THE PRODUCTION OF FUNCTIONAL ROBUSTA COFFEE POWDER" has been submitted to the Food Science and Technology.

I invite you to review this manuscript. The abstract appears at the end of this letter. Please let me know as soon as possible if you will be able to accept my invitation to review. If you are unable to review at this time, I would appreciate you recommending another expert reviewer. You may e-mail me with your reply or click the appropriate link at the bottom of the page to automatically register your reply with our online manuscript submission and review system.

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MANUSCRIPT DETAILS

TITLE: THE ADDITION OF GAMBIR CATECHIN EXTRACT IN THE PRODUCTION OF FUNCTIONAL ROBUSTA COFFEE POWDER

ABSTRACT: This study aims to improve the functional properties of robusta coffee by adding gambir catechin extract. Furthermore, a completely randomized non-factorial design with 5 treatment is used and each treatment was repeated three times. The treatments consist of: robusta coffee powder (%): gambir catechin extract (%) F1=100:0, F2=95:5, F3=90:10, F4=85:15, and F5=80: 20. The results showed that the addition of gambir catechin extract has a significant effect on increasing the total phenol value from 10.65 mg/mL to 101.20 mg/mL and the antioxidant activity with an IC50 value of 40.10 g/mL to 583.06µg/mL. In addition, the taste, color, and aroma of the functional coffee produced have no significant influence due to the addition of catechin gambir extract. The combination of 80% robusta coffee powder with 20% gambir catechin extract (F5) produces the best functional coffee, total phenol content of 101,20mg/mL, antioxidant activity (IC50=40,10µg/mg), acidity degree (pH=5.43), and percentage solubility 31.15%.

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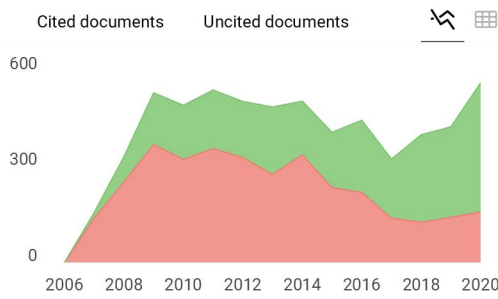
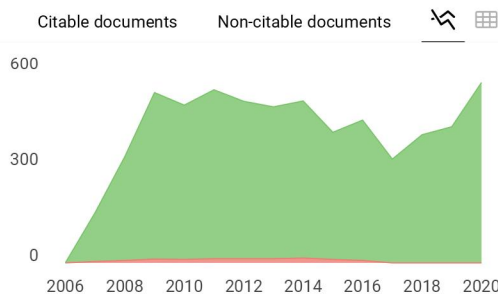
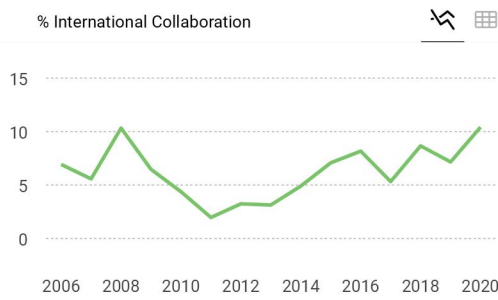
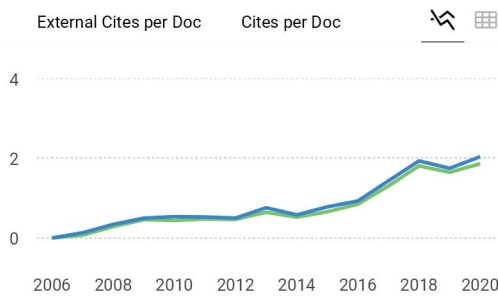
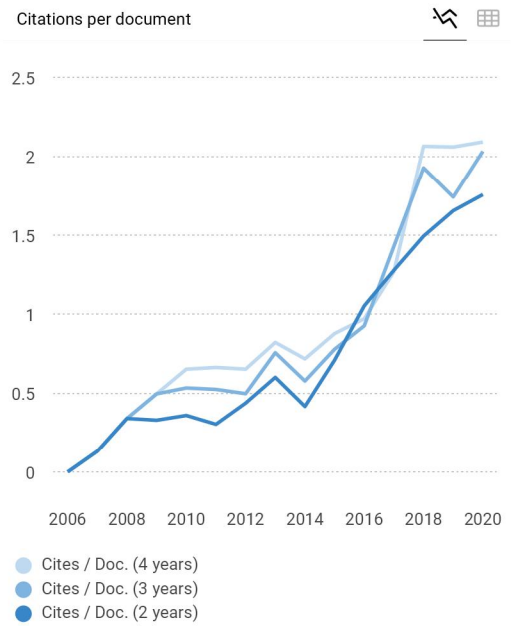
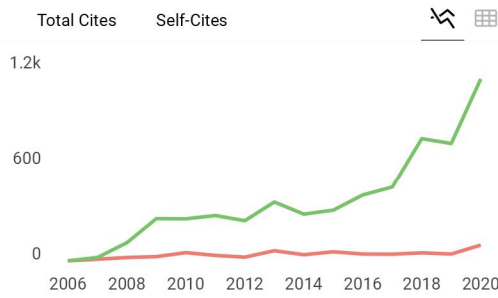
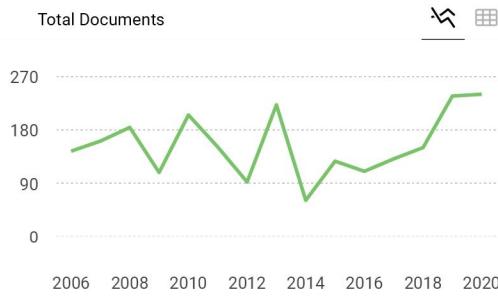
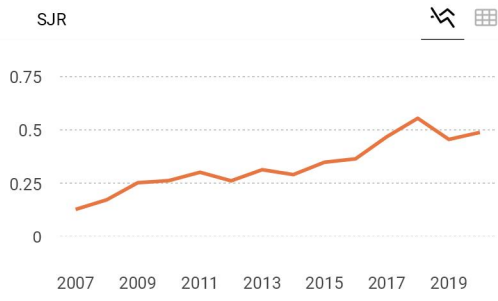
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