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In this issue

Research Article

Open Access Research Article PTZAID:ASB-7-122

Combined Application Strategy of Biochar/Phosphate Fertilizer Affects the rice Production by Regulating Soil Bacteria Taxa Composition

Published On: August 27, 2024 | Pages: 035 - 050

Author(s): Yutao Li, Yu Cheng and Hui Liu*

Phosphate fertilizer affects the rice yield and has a critical role in arable land management. Biochar regulates soil nutrient and soil microbe taxa composition. Our study aimed to elucidate the effects of co-application for biochar-phosphate on soil nutrient indicators, soil microorganisms, and crop production. Our experiment was set up as follows: 0 t/hm2, 28 t/hm2, ...

Abstract View Full Article View DOI: 10.17352/asb.000022

Open Access Research Article PTZAID:ASB-7-121

Application of (bio) chemical engineering concepts and tools to model genetic regulatory circuits, and some essential central carbon metabolism pathways in living cells. Part 4. Applications in the design of some Genetically Modified Micro-Organisms (GMOs

Published On: January 19, 2024 | Pages: 001 - 034

Author(s): Gheorghe Maria*

In the first part of this work, the general Chemical and Biochemical Engineering (CBE) concepts and rules are briefly reviewed, together with the rules of the control theory of Nonlinear Systems (NSCT), all in the context of (i) deriving deterministic Modular Structured Kinetic Models (MSDKM) to describe the dynamics of metabolic processes in living cells, and (ii) of ...

Abstract View Full Article View DOI: 10.17352/asb.000021

Short Communication

Open Access Short Communication PTZAID:ASB-7-124

A Possible Path towards Prevention

Published On: November 22, 2024 | Pages: 054 - 056

Author(s): Mihai Nadin*

Vaccination related to the COVID-19 pandemic turned out to be a global experiment. In the absence of clinical studies for assessing safety, dosage, immune response of subjects of different age groups, etc., vaccination as a means of reducing the number of victims practically replaced the final phase of the customary cycle of trials for FDA approval. Given this reality ...

Abstract View Full Article View DOI: 10.17352/asb.000024

Opinion

Open Access Opinion PTZAID:ASB-7-123

A Rapid Fluorescent in vitro Assay Suitable for Studying the Kinetics of O6-Alkylguanine Lesion Progression to DNA Inter-Strand Cross-Links and the Kinetics of the Primary Lesion’s Repair

Published On: November 15, 2024 | Pages: 051 - 053

Author(s): Philip G Penketh*

An assay is described that permits the study of the kinetics of DNA cross-link precursor formation, the kinetics of cross-formation, and the kinetics of the repair of these DNA cross-link precursor lesions, at physiological pH values. Due to the relatively rapid nature of these processes existing assays are not suited to the study of these processes. Data obtained usi ...

Abstract View Full Article View DOI: 10.17352/asb.000023