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In this issue

Research Article

Open Access Research Article PTZAID:JCEES-9-161

Viscoelastic properties of alkaline treated walnut shell/rice straw fiber/epoxy biocomposite

Published On: April 25, 2023 | Pages: 009 - 013

Author(s): Chilee Ekwedigwe, Kingsley Nnakwo and Chidume Nwambu*

The increasing demand for an eco-friendly environment has led to the recent development of polymer matrix/green plant fiber composites. In this present study, the viscoelastic performance of walnut/rice straw fiber/epoxy biocomposites was examined using a dynamic mechanical analysis (DMA) in three-point bending mode at a constant frequency (1 Hz) and temperature (25 o ...

Abstract View Full Article View DOI: 10.17352/2455-488X.000061

Short Communication

Open Access Short Communication PTZAID:JCEES-9-160

Overview of research on adhesion reduction and desorption technology of soil-contact construction equipment

Published On: April 19, 2023 | Pages: 005 - 008

Author(s): Li Qiang*, Chen Zhikai, Guan Tingting, Wang Jing and Xu XiuJie

Earthmoving machinery is prone to adhesion problems when working against soil media, resulting in a decline in construction efficiency and quality. This paper summarizes the development of soil adhesion mechanisms, describes the research progress of experts and scholars in various countries in the field of adhesion and desorption, and prospects the research on adhesio ...

Abstract View Full Article View DOI: 10.17352/2455-488X.000060

Mini Review

Open Access Mini Review PTZAID:JCEES-9-162

Model analysis of electroflotation water treatment of wastewater containing microplastics

Published On: May 30, 2023 | Pages: 014 - 019

Author(s): Ksenofontov Boris Semenovich*, Bondarenko Anna Viktorovna and Rusanova Kristina Rodionovna

The paper presents a model of the microplastic electroflotation process and considers the factors affecting the efficiency of this process during wastewater treatment. The results obtained will help optimize the microplastic electroflotation process and develop more effective ways to remove plastic particles from the treated water, as well as help in the development o ...

Abstract View Full Article View DOI: 10.17352/2455-488X.000062

Open Access Mini Review PTZAID:JCEES-9-159

Concretes on a composite gypsum binder using limestone stone crushing waste

Published On: April 13, 2023 | Pages: 001 - 004

Author(s): Natalia V Chernysheva*, Othman Azmi SA and Motorykin Dmitry Aleksandrovich

The article discusses the possibility of obtaining Composite Gypsum Binders (CGB) and heavy concretes based on them using local raw materials from Palestine. As an active mineral additive in the composition of the composite gypsum binder, it is proposed to use finely dispersed quartz sand with a specific surface area of 500 m2/kg, on the surface of which, during gri ...

Abstract View Full Article View DOI: 10.17352/2455-488X.000059