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1.

Study the Effect of Nano SiO₂ Prepared from Rice Husk Ash on Compressive Strength of Reactive Powder Concrete

Dang Thi Thanh Le, Vuong Dang Le Mai, Vu Viet Cuong, Hoang Anh Tuan

Keywords: Nano-SiO₂, rice husk ash, reactive powder concrete, compressive strength, water-to-cement ratio, mesoporous structure, cementitious materials

2.

Tutorial on Continuously Observational Hidden Markov Model

Loc Nguyen

Keywords: Hidden Markov Model, Continuous Observations, Mixture Model, Probability Density Function, Statistical Modeling

3.

Determination of Optimum Nativo SC 300 (Trifloxystrobin 100g/l + Tebuconazole 200g/l) Spray Frequency for Control of Rust (*Puccinia allii* Rudolphi) on Garlic in the Highlands of Bale, South Eastern Ethiopia

Yonas Worku Mulat

Keywords: Garlic, Puccinia allii, Fungicide, Trifloxystrobin, Tebuconazole, Crop Yield, Disease Control

4.

Heart Rate Analysis and Monitoring of Patients from Offsite through Wireless Sensor Network

Deepak Choudhary

Keywords: Heart Rate Monitoring, Wireless Sensor Network, Remote Patient Monitoring, Zigbee Protocol, Medical Device Enhancement

5.

Scrophularia atropatana extract reverses TP53 gene promoter hypermethylation and decreases survivin antiapoptotic gene expression in breast cancer cells

Mehrdad Ghavifekr Fakhr, Behzad Baradaran, Majid Farshdousti Hagh, Dariush Shanehbandi, Jafar Majidi, Tohid Kazemi, Saeed Sadigh-Eteghad, Habib Zarredar, Elham Safarzadeh

Keywords: Scrophularia atropatana, TP53, breast cancer, hypermethylation, survivin, apoptosis, epigenetics

6.

The Comparison of Body Composition Bioelectrical Impedance Analysis Method of Primary School Students Who Do and Don't Do Exercise

Recep Kurkcu

Keywords: bioelectrical impedance analysis, primary school students, body composition, exercise, physical activity, BMI, childhood health

7.

Chromogranin A (CgA) and N Terminal -proBNP (NT-proBNP) in Evaluation and Differentiation of Systolic and Diastolic Ischemic Heart Failure: Severity Related Study

Basil O Saleh, Nada A Abdu Huseen, Hilal B Al-Saffar, William M Frankul

Keywords: chromogranin A, NT-proBNP, ischemic heart failure, systolic dysfunction, diastolic dysfunction