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### **SEDIMENTATION DUE TO FLOODS IN THE IMMEDIATE UPSTREAM OF TARBELA DAM (INDUS RIVER), PAKISTAN**

Abid Hussain, A. H. Malik, Abid Sheikh and Iftikhar A. Raja

*Department of Civil Engineering, University of Engineering and Technology, Peshawar, Pakistan*

*Keywords: Sedimentation, Floods, Tarbela Dam, Indus River, Pakistan, Water Resources Management, Flood Risk Management*

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2.

### **Mandibular asymmetries in the domestic pig according to age**

Pere M. Parés-Casanova

*Department of Veterinary Anatomy, University of Barcelona, Spain*

*Keywords: geometric morphometrics, mandible, skull, symmetry*

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Mansi Jhamb

*Department of Electronics and Communication Engineering, Punjab Technical University, Punjab, India*

*Keywords: PSpice, SRAM, Handshaking, VHDL, XILINX ISE, CMOS*

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### **Chemoprophylactic and Hemato-serological effects of anti-diarrheal drugs against Neonatal Calf Diarrhea**

Muhammad Athar khan, Khawar Mahboob, Arslan Tariq, Kiran Aqil, Muhammad Saeed  
*Department of Pharmacology, University of Health Sciences, Lahore, Pakistan*  
*Keywords: Calf, Neonatal calf diarrhea, antidiarrheal drugs, Chemo-prophylactic effect*

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### **The responses in trunks increments of park trees to technical works affecting root zone**

Beata Fortuna-Antoszkiewicz,\nJan Lukaszkiwicz

*Department of Botany, University of Warsaw, Poland*

*Keywords: historical urban parks; park stands; diameter at breast height (dbh); infrastructure upgrading; black locust; common lime; Norway maple.*

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### **New data on the distribution of *Phloeosinus aubei* Perris (Coleoptera: Curculionidae) and its parasitoids in Romania**

Nicolai Olenici, Mircea-Dan Mitroiu, Milos Knizek, Valentina Olenici

*Department of Entomology, University of Bucharest, Romania*

*Keywords: Coleoptera, Hymenoptera, Curculionidae, Pteromalidae, Eurytomidae, Phloeosinus aubei, Metacolus fasciatus, Eurytoma morio, Thuja occidentalis, distribution, parasitoids*

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### **Enhanced Secure Routing Model for MANET**

Vinay Kumar Pandey\n1\nDr. Harvir Singh\n2

*Department of Computer Science, Indian Institute of Technology, Delhi, India*

*Keywords: MANET security, secure protocol, mobility, AADS mod\nel, SMART*

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### **In vitro antibacterial activity of *Vitex altissima* L. against selected pathogenic bacteria**

Sahaya Sathish S, Janakiraman N, Johnson M

*Department of Microbiology, University of Madras, Chennai, India*

*Keywords: Vitex altissima, antibacterial, bioactivity, disc diffusion assay, pharmaceutical.*

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9.

## **Comparison of Adsorption Isotherms of Bromocresol green and Bromothymol blue by Multi-walled Carbon Nanotubes and Carbon Molecular Sieves with the Models of Langmuir, Freundlich, Temkin**

Robert Thompson, Michael Anderson

*Faculty of Chemistry, Universidad Nacional Autónoma de México, Mexico*

*Keywords: isotherms, Bromothymol blue , Bromocresol green , multi-walled carbon nanotubes, carbon molecular sieve.*

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**10.**

## **Fractional LMF Algorithm for a Novel Spatial-Temporal MIMO Beamforming Architecture**

Jawwad Ahmed and Muhammad Moinuddin

*Department of Electrical Engineering, National University of Sciences and Technology, Islamabad, Pakistan*

*Keywords: Beamforming, MIMO systems, adaptive algorithm, fractional calculus, LMF*

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