

CURRENT SCIENCE

Volume 125 Number 11

10 December 2023

1154 In this issue

EDITORIAL

- 1155 **Rooting for the love of plants: importance of being a taxonomist**
Vinita Gowda

CORRESPONDENCE

- 1157 **A universal primer set for specific vis-à-vis simultaneous differentiation of *Escherichia coli* and *Klebsiella* species**
Rajib Deb, Gyanendra Singh Sengar, Soumendu Chakravarti, Linda Ningthoukhongjam, Seema Rani Pegu, Swaraj Rajkhowa, Pranab Joyti Das and Vivek Kumar Gupta

NEWS

- 1158 **Current Science Reports**
- 1162 **Nobel Prize in Chemistry 2023: discovery and synthesis of quantum dots**
Malay Krishna Mahato and Anoop Thomas
- 1166 **Physics Nobel 2023: the study of physical phenomena with Attosecond time resolution**
Reji Philip
- 1168 **The 2023 Nobel Prize in Physiology or Medicine**
Manish Nag and Raghavan Varadarajan
- 1170 **Vishwavidyalaya Anusandhan Utsav 2023 – showcasing the research potential of Indian universities**
A. Shivaprasad and Pratishtha Pandey

- 1171 **Deccan-next**
Hetu Sheth

COMMENTARY

- 1173 **Geoscience education and workforce development for energy transition**
Rasoul Sorkhabi

GENERAL ARTICLES

- 1175 **'Reach the Unreached': a perspective for public outreach in Earth and space sciences**
B. Kakad, S. Devanandhan, C. Nayak and A. P. Dimri
- 1180 **Unknown urban cavities – formation, problem and possible mapping**
P. Anbazhagan, H. Thakur, K. Panjami, Malashree and V. Logu

REVIEW ARTICLE

- 1190 **Impact of climate change on agriculture ecosystems and resilience for sustainable development under the Global Framework for Climate Services in India**
Kamaljit Ray and Shibendu S. Ray

RESEARCH ARTICLES

- 1197 **Uncertainty analysis using Monte Carlo simulation and rock physics modelling to explore subsurface properties of Krishna–Godavari Basin, India**
Richa and Satya P. Maurya



- 1216 **Ancient megafloods of Mars: interpretations from MOM MCC data and hydrodynamic simulations**
Praveen Kumar Thakur, Sanjay Kumar Dwivedi, Sehajpal Singh, Pankaj Ramji Dhote and Raghavendra Pratap Singh
- 1227 **Space-time dynamics of local scour around submerged tandem and staggered piers in sand beds**
L. N. Pasupuleti, P. V. Timbadiya and P. L. Patel
- 1235 **Do the information networks of farmers differ across gender? Evidence from the hills of Uttarakhand, India using social network analysis**
Kushagra Joshi and Jyoti Rawal
- 1244 **A machine learning model for studying the seasonality of aphids in wheat-based cropping systems of the terai zone of Darjeeling, West Bengal, India**
Biwash Gurung, Suprakash Pal, Md. Wasim Reza, Bishal Gurung and Achal Lama
- 1250 **GC-MS profiling of phytochemicals in the leaves of *Vitex negundo* L.**
Sangeetha Kaliyannagounder, Swaminathan Chitraputhirapillai, Renuka Raman, Vellaikumar Sampathrajan, Nivethadevi Palani and Sivasankari Baskaran
- 1259 **Implications of single-stage deep learning networks in real-time zooplankton identification**
Sadaf Ansari, Dattesh V. Desai, Aya Saad and Annette Stahl

BOOK REVIEWS

- 1267 **Annual Review of Cell and Developmental Biology, 2022.** Ruth Lehmann, Jennifer Lippincott-Schwartz and Alexander F. Schier (eds); *reviewed by* R. Nagaraj
- 1268 **Annual Review of Phytopathology, 2022.** Steven E. Lindow and John M. McDowell (eds); *reviewed by* Chandramani Raj and Rasappa Viswanathan

HISTORICAL NOTES

- 1271 **Lieutenant-Colonel Henry Haversham Godwin-Austen (1834–1923): a pioneering surveyor, naturalist, geologist and malacologist of British India**
Neelavar Ananthram Aravind
-



- ◀ COVER. Full disk image of Mars taken on 07 October 2014 from Mars Colour Camera (MCC) onboard Mars Orbiter Mission (*left*) and Mangala Valles image taken on 02 December 2014 from MCC draped over MOLA-HRSC Digital Elevation Model (*right*). See page 1216.

Indexed in CURRENT CONTENTS/GEOTitles/CHEMICAL ABSTRACTS/IndMED/SCOPUS/
WEB OF SCIENCE

