GUEST EDITORIAL

691 The need to become science-friendly
Jayant Narlikar

NEWS

697 ‘Superbugs’ and antibiotic resistance, Parul R. Sheth

COMMENTARY

698 Bioinformatics: how it helps to boost modern biological research
Suvakanta Barik, Niles Sh Rai, Pradeep Mishra, Santosh K. Singh and Vibhav Gautam

SCIENTIFIC CORRESPONDENCE

700 Assessing the response of forests to environmental variables using a dynamic global vegetation model: an Indian perspective
Manoj Kumar, Naveen Kalra and N. H. Ravindranath

701 Earthquake swarms in Palghar district, Maharashtra, Deccan Volcanic Province
P. Mahesh, A. Sateesh, Charu Kamra, Santosh Kumar, Sumer Chopra and M. Ravi Kumar

GENERAL ARTICLES

705 Duality in science
Varun S. Bhatta and Sundar Sarukkai

714 Visualization analysis of health informatics research from 2001 to 2018
Lu-Xi Zou and Ling Sun

RESEARCH ARTICLES

722 Functional prediction from conformational dynamics of glycated and glutathionylated HbE and HbD Punjab
Sreekala Narayanan, Boby Mathew, Bindu Y. Srinivasu, Monita Muralidharan, Vijay Bhat and Amit Kumar Mandal

728 A geospatial approach to assess health coverage and scaling-up of healthcare facilities
Oinam Bakimchandra, Joymati Oinam and R. K. Kajal

737 Impact assessment of a severe dust storm on atmospheric aerosols over an urban site in India
Kanika Taneja, Shamshad Ahmad, Kafeel Ahmad and S. D. Attri

750 Changes in pmoA gene containing methanotrophic population and methane oxidation potential of dry deciduous tropical forest soils
Yashpal Bhardwaj and Suresh Kumar Dubey

759 Seismic behaviour of RC building with raft foundation in the Ganges basin, India
J. S. Rajeswari, Rajib Sarkar, Sekhar Chandra Dutta, Jai Prakash Singh and Ranjeet Saw
771 Pedo-transfer functions for saturated hydraulic conductivity of cultivated soils in the mid hills of Sikkim
G. T. Patle and P. C. Vanlalnunchhani

778 Role of meteorology and local orography on a flood event in the Lower Subansiri Basin and post-flood changes to land use and land cover
Partha Pratim Gogoi, V. Vinoj and Parag Phukon

RESEARCH COMMUNICATIONS

786 Analysis of various factors responsible for hair loss and awareness level in Delhi and the National Capital Region of India
Archana Aggarwal, Rakhi Gupta, Navdha Thukral, Gargi Nandi and Garima Bora

791 A comparative study of physical properties of yarns and fabrics produced from fresh and recycled fibres
Neelam Saini, Saroj Yadav and Neelam M. Rose

796 Anticandidal efficiency of Cinnamomum zeylanicum extracts against vulvovaginal candidiasis
Mohamed Taha Yassin, Ashraf Abdel-Fattah Mostafa and Abdulaziz Abdulrahman Al-Askar

801 First record of circa 970 Ma post-collisional A-type magmatism in the Sendra Granitoid Suite, central Aravalli orogen, northwest India
Jaideep K. Tiwana, Parampreet Kaur, Naveen Chaudhri and Manisha

809 Occurrence of liddicoatite-bearing LCT pegmatites in Sirohi region, northwest India and their rare metal potentiality
Manideepa Roy Choudhury, Nikhil Agarwal and Suresh Chander

819 Studies on butterfly (Insecta: Lepidoptera) diversity across different urban landscapes of Delhi, India
Monalisa Paul and Aisha Sultana

827 Functional response of three species of predatory pirate bugs to different densities of blossom thrips, Frankliniella schultzei Trybom (Thysanoptera: Thripidae)
Richa Varshney, Neeraj Budhlakoti and Chandish R. Ballal

BOOK REVIEWS

834 Retrovirus-Cell Interactions. Leslie J. Parent (ed.); reviewed by Matto Rohini

835 Space and Human Development, Revised Edition. Mohan Sundara Rajan; reviewed by Ranganath Navalgund

836 Sambhu Nath De: The Discovery of Cholera Toxin. M. S. S. Murthy; reviewed by Anisha Maria Fernandes and Sanjay A. Pai

PERSONAL NEWS

837 M. K. Bhan (1947–2020), Renu Swarup

COVER. Oriental Lemon Emigrant Catopsilia pomona F. at Aravalli Biodiversity Park, New Delhi (Photo credit Dr Aisha Sultana). See page 819.

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