In this issue

GUEST EDITORIAL

100 Years of Biochemistry at the Indian Institute of Science
Pundi N. Rangarajan

NEWS

Science Last Fortnight
Towards a sustainable water future
Pratik M. Pawar and S. Priya

IN CONVERSATION

Ken Ono
Tirthankar Bhattacharyya

RESEARCH NEWS

Exploring North East India’s non-mulberry silk based bioinks for three dimensional bioprinting
Rocktotpal Konwarh

COMMENTARY

Science and innovation in the 21st century: new paradigms and challenges for policy design
Sujit Bhattacharya

SCIENTIFIC CORRESPONDENCE

Uraninite-bearing leucosomes from migmatites of Chhotanagpur Granite Gneiss Complex, Karke area, Garhwa district, Jharkhand, India
A. P. Kushwaha, S. P. Upadhyay, Kuldeep Nautiyal, B. V. S. N. Raju and D. K. Sinha

GENERAL ARTICLES

Eleven years of Dr D. S. Kothari Postdoctoral Fellowship scheme of the University Grants Commission

Professional competence of teachers in Indian higher agricultural education
P. Ramesh and P. Krishnan

REVIEW ARTICLE

The forests and elephants of Wayanad: challenges for future conservation
N. R. Anoop and T. Ganesh

RESEARCH ARTICLES

Imaging Infrared Spectrometer onboard Chandrayaan-2 Orbiter
Instrument for Lunar Seismic Activity Studies on Chandrayaan-2 Lander

Lunar near surface plasma environment from Chandrayaan-2 Lander platform: RAMBHA-LP payload

Analysing impact of major solar flares on ionospheric total electron content using NavIC signals
Sonal Parmar, Upena Dalal and Kamlesh Pathak

Simulating reinforcement corrosion-induced strain in concrete using expansive grout
Prasanna Kumar Behera, K. Mondal and Sudhir Misra

Assessment of sedimentation and useful life of Tehri reservoir using integrated approaches of hydrodynamic modelling, satellite remote sensing and empirical curves
Ayan Anil Garg, Alemayehu A. Shawul and Sumedha Chakma

Electrical signature of the October 2013 very severe cyclonic storm Phailin
Adarsh Dube, Ajeet K. Maurya and Rajesh Singh

Identifying critical links on disruption-prone road networks: an approach that obviates scenario enumeration
Gopal R. Patil and B. K. Bhavathrathan

Development of artificial neural network-based model for prediction of temperature field in host rock of a geological disposal facility for radioactive waste
Vrinda Brajesh Gupta, T. K. Pal and R. K. Bajpai

Climate change smart option and doubling farmer’s income through Melia dubia-based agri-silviculture system
P. Chandana, A. Madhavi Lata, M. A. Aariff Khan and A. Krishna

Energy use pattern in wheat crop production system among different farmer groups of the Himalayan Tarai region
Rajat Kumar Sharma, T. K. Bhattacharya, Akanksha Kumain, Priyanka Chand, Sandip Mandal and Deepshikha Azad

Iron and zinc bioavailability from Madhukar × Swarna derived biofortified rice lines
Raghu Pullakhandam, Surekha Agarwal, V. G. N. Tripura Venkata, C. V. Ratnavathi, K. Madhavan Nair and Sarla Neelamraju

A significant shift in particulate organic matter characteristics during flooding of River Krishna, eastern peninsular India
C. Prakash Babu, V. Ramaswamy, P. S. Rao, V. V. S. S. Sarma and P. Praveen Kumar

Unique breeding activity and oviposition in Annandale’s high-altitude tree frog, Kurixalus naso (Annandale, 1912) in Meghalaya, North East India
P. W. Shangpliang, R. N. K. Hooroo and S. K. Dutta
Small hydropower using pump as turbine: an alternative for energy generation in Southern Africa
Jinfeng Zhang, Daniel Adu, Mao Jioyin, Samuel Joe Acquah and Stephen Ntiri Asomani

BOOK REVIEWS


Annual Review of Immunology, 2018. Dan R. Littman and Wayne M. Yokoyama (eds); reviewed by Beneeta Kelha, Ruchi Sachdeva, Anjali Bose, Moumita Sarkar, Hritika Sharma, Monika Malik and Rahul Pal

PERSONAL NEWS

Kailasam Venkatesan (1932–2019)
T. N. Guru Row

R. Jayaraman (1937–2019)
M. Hussain Munavar and K. Dharmalingam

ACADEMY NEWS

Indian Academy of Sciences announces new Fellows and Honorary Fellow for 2020

COVER. A pencil sketch of the old building of the Biochemistry Department, Indian Institute of Science, Bangalore. See page 331.

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