In this issue

GUEST EDITORIAL
1801 Indian education: challenges
Anil Kakodkar

NEWS
1803 Pratyush: India’s fastest supercomputer for weather and climate prediction, Abhay S. D. Rajput
1804 Science Last Fortnight

RESEARCH NEWS
1808 RNA base editing: programmable protein machine
Kulbhushan Chaudhary

COMMENTARY
1810 SERB and other sources of extramural support under the Ministry of Science and Technology, M. Vijayan
1812 Will India’s coal power plans pose a threat to limiting global warming to safe levels?, Rajiv Kumar Chaturvedi

SCIENTIFIC CORRESPONDENCE
1815 Analysis of soil organic matter accumulation in a millennium chronosequence using a spectral parameter
Guanghui Zheng, Caixia Jiao, Gang Shang and Fenfang Lin
1818 Emergence of multidrug-resistant Raoultella ornithinolytica associated with Indian major carp
Binod Kumar Choudhary, Mamta Choudhary, B. C. Bera and S. B. Barbuđhe
1821 Nesting sites of birds and spiders in the semi-arid zone of Rajasthan, India
Sandhya A. Marathe

GENERAL ARTICLES
1825 Aspects of science education in India: a synoptic review and possible directions for the future
Ramjit Kumar and Smriti Singh
1829 Engineering curriculum development based on education theories
Jitendra Prasad, Avijit Goswami, Brijesh Kumbhani, Chittaranjan Mishra, Himanshu Tyagi, Jung Hyun Jun, Kamal Kumar Choudhary, Mukesh Kumar, Naveen James, V. Ravi Shankar Reddy Satwinder Jit Singh, Deepak Kashyap, Milind Sohoni, Nandita DasGupta, Prabhu Krishna Raina, Samir Kumar Saha, Sanjay Mittal, Suman Chakraborty and Sarit Kumar Das
1835 SERB merit review process: adapting to emerging challenges
Premila Mohan and Ramasamy Brakaspathy
1840 Social media and communication by scientists: M. S. Swaminathan on Twitter
B. Jayashree
1846 Water soluble nanocarbon materials: a panacea for all?  
S. V. Eswaran

1851 Fluoride distribution in drinking groundwater in Rajasthan, India  
Shanti Lal Choubisa

1858 Cellular and molecular basis of heavy metal-induced stress in ciliates  
Sripoorna Somasundaram, Jeeva Susan Abraham, Swati Maurya, Seema Makhija, Renu Gupta and Ravi Toteja

RESEARCH ARTICLES

1866 Knowledge, attitude and practice of antibiotic use and antimicrobial resistance: a study post the ‘Red Line’ initiative  
Deepanwita Banerjee and Anu Raghunathan

1878 Layered Pt.ZSM-5-C by greener chemical reduction for catalysing fuel cell reactions  
Basu M. Daas and Susanta Ghosh

1885 Assessing unrealized yield potential of maize producing districts in India  

1894 Magneto-mineralogical characterization and manifestations of magnetic fabrics from the gneissic rocks and associated intrusive bodies in and around Bankura and Purulia districts, West Bengal, India  
Sauradeep Chatterjee, Supriya Mondal, Pratik Roy, Debesh Gain and Amitava Bhattacharya

1903 Migmatization, granite generation and melt accumulation in the Himalayan Orogenic Channel, Central and Eastern Bhutan  
A. K. Jain, Sushmita, Sandeep Singh and P. K. Mukherjee

1913 Travel time reliability as a level of service measure for urban and inter-urban corridors in India  
Anish Kumar Bharti, Ch. Ravi Sekhar and Satish Chandra

RESEARCH COMMUNICATIONS

1923 Extreme space-weather effect on D-region ionosphere in Indian low latitude region  
K. Venkatesham and Rajesh Singh

1927 Morphometric and internally transcribed spacer gene sequence-based characterization of Alternaria burnsi  
Nirbhay K. Singh, Dasharathbhai B. Patel, Smitkumar R. Chaudhari, Bindiyaben G. Morad, Sonalben M. Rabari, Anirudh Chattopadhyay and Mohan L. Tetarwal

1934 Women empowerment through agricultural mechanization in India  
C. R. Mehta, L. P. Gite and A. Khadatkar

1940 Last 42 ky sediment chemistry of oxygen deficient coastal region of the Bay of Bengal: implications for terrigenous input and monsoon variability  
T. Sarathchandraprasad and V. K. Banakar

1946 Multiple regression analysis of geoelectric imaging and geotechnical site investigation test results  
Rambhatla G. Sastry, Sumedha Chahar and Mahendra Singh

1953 Mixing dynamics in double-diffusive convective stratified fluid layers  
Rishabhb More and Sridhar Balasubramanian
1961 Mechanical properties and differentiation assessments of neural stem cells with pneumatic micropipette aspiration
Ming Wu, Qili Zhao, Cui Yang, Wen Shen, Xin Zhao, Yun Lu and Xi Zeng Feng

1967 Coral mortality in the Gulf of Mannar, southeastern India, due to bleaching caused by elevated sea temperature in 2016

BOOK REVIEWS
1973 C. V. Raman’s Laboratory and Discovery of the Raman Effect, Rajinder Singh. Shaker; reviewed by E. S. Rajagopal
1974 The Dark Side of Technology, Peter Townsend; reviewed by Subbiah Arunachalam
1976 Climate Change and Urban Settlements: A Spatial Perspective of Carbon Footprint and Beyond, Mahendra Sethi; reviewed by Subhakanta Mohaptra

HISTORICAL NOTES
1978 Assessing scientific evidences in the Aryan debate
T. R. S. Prasanna


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