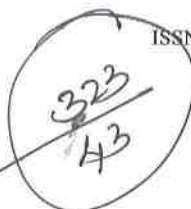




CURRENT SCIENCE



708 In this issue

GUEST EDITORIAL

- 709 Genius in medicine**
Sanjay A. Pai and Sunil K. Pandya

CORRESPONDENCE

- 711 Profiling India's research impact in mathematics**, Gangan Prathap ■ **712 Triple-blind review is the way to go**, A. A. Shah ■ **713 Soil degradation**, R. P. Dhir; *Response by* D. K. Pal

NEWS

- 714 Science Last Fortnight** ■ **718 Wildlife Watch in the Indian Himalayan Region**, S. Sathyakumar, V. B. Mathur, K. Mondal and Soumya Dasgupta

RESEARCH NEWS

- 719 Synbiotics prevent neonatal sepsis in rural India**, P. Surat Saravanan

IN CONVERSATION

- 721 Frank H. Shu**, S. Priya

OPINION

- 723 A perception-based approach to robotics and artificial life**, Rupert Young

COMMENTARY

- 725 Zika virus – a global emergency**, Debosree Ghosh ■ **726 Refuge-in-bag for Bt cotton**, Mohan Komarlingam S.

SCIENTIFIC CORRESPONDENCE

- 728 Interactions between non-native plants and native insects: research gaps**, Anupam Sunny, Swati Diwakar and Gyan Prakash Sharma ■ **729 Time reduction for determination of infective propagule numbers of arbuscular mycorrhizal fungi by most probable number assay**, T. Abinaya, D. J. Bagyaraj, G. Thilagar and R. Ashwin ■ **730 Corals dominate monofilament lines in Sesoko Island, Japan**, Rocktim Ramen Das and Hideyuki Yamashiro

GENERAL ARTICLES

- 732 Role of electric mobility in a sustainable, and energy-secure future for India**
R. Srikanth
- 740 Research output of Indian institutions during 2011–2016: quality and quantity perspective**
K. S. Rajan, S. Swaminathan and S. Vaidhyasubramaniam
- 747 A bibliometric analysis of research on multiple criteria decision making**
Dejian Yu, Wanru Wang, Wenyu Zhang and Shuai Zhang

SPECIAL SECTION: HIMALAYAN CRYOLOGY

- 759 Preface**
Anil V. Kulkarni and S. K. Satheesh



- 760 **Recent wintertime climatic variability over the North West Himalayan cryosphere**
H. S. Negi, Neha Kanda, M. S. Shekhar and A. Ganju
- 771 **Remote sensing analysis of changes in Chorabari glacier, Central Himalaya, India**
Debmita Bandyopadhyay, Gulab Singh and Farjana Birajdar
- 776 **Temporal change and flow velocity estimation of Patseo glacier, Western Himalaya, India**
K. K. Singh, D. K. Singh, H. S. Negi, A. V. Kulkarni, H. S. Gusain, A. Ganju and Babu Govindha Raj K.
- 785 **Estimation of ice thickness of the Satopanth Glacier, Central Himalaya using ground penetrating radar**
Aditya Mishra, B. D. S. Negi, Argha Banerjee, H. C. Nainwal and R. Shankar
- 792 **Decadal change in supraglacial debris cover in Baspa basin, Western Himalaya**
S. Pratibha and Anil V. Kulkarni
- 800 **Trends of snow cover in Western and West-Central Himalayas during 2004–2014**
B. P. Rathore, I. M. Bahuguna, S. K. Singh, R. M. Brahmabhatt, S. S. Randhawa, P. Jani, S. K. S. Yadav and A. S. Rajawat
- 808 **Investigating the performance of snowmelt runoff model using temporally varying near-surface lapse rate in Western Himalayas**
Smarika Kulshrestha, RAAJ Ramsankaran, Ajay Kumar, Manohar Arora and A. R. Senthil Kumar

REVIEW ARTICLE

- 814 **Developing extension model for uptake of precision conservation agricultural practices in developing nations: learning from rice–wheat system of Africa and India**
G. A. Shitu, M. S. Nain and Rashmi Singh

RESEARCH ARTICLES

- 826 **Response of bacterial biosorbents to chemical treatment as influenced by cell membrane structure and impact on the adsorption behaviour of dyes**
Lwandle P. Simelane, Elvis Fosso-Kankeu, Patrick Njobeh and Sadanand Pandey
- 835 **Production, purification and partial characterization for an oxalate decarboxylase (OxDcase) from the probiote *Lactobacillus plantarum* KSK-II**
Essam Kotb
- 845 **Phosphate solubilization mechanisms in alkaliphilic bacterium *Bacillus marisflavi* FA7**
Neha Prabhu, Sunita Borkar and Sandeep Garg
- 854 **Analysis of regional competitiveness in the high-tech industry**
Weida He, Zhifeng Lin and Rong Hao
- 861 **Quantitative inventories of ants from India: gaps, prospects and recommendations**
Aniruddha Marathe and Priyadarsanan Dharma Rajan
- 868 **Seasonal surface chlorophyll *a* variability in the Seychelles–Chagos Thermocline Ridge**
Jenson V. George, M. Nuncio, N. Anilkumar, Racheal Chacko and D. Rajashekhar
- 879 **Archaeological studies at Dholavira using GPR**
Silky Agrawal, Mantu Majumder, Ravindra Singh Bisht and Amit Prashant

RESEARCH COMMUNICATIONS

- 888 **Strong electron–phonon interaction establishes correlation between superconducting and charge density wave states in NbSe₂**
I. Naik and S. Sethy
- 891 **Selecting clinical and laboratory methods of manufacture of orthopaedic titanium alloy structures using a biopotentiometer**
Alexei V. Yumashev, Anatolij S. Utyuzh, Maria V. Mikhailova, Vadim O. Samusenkov and Ilona R. Volchkova
- 897 **Nanocellulose as functional filler in starch/polyvinyl alcohol film for preparation of urea biosensor**
Prasad Satyamurthy and Vigneshwaran Nandanathangam
- 901 **Identification of unique characteristics of deception from facial expression**
Ananya Mondal, Pritha Mukhopadhyay, Nabanita Basu, Samir Kumar Bandyopadhyay and Tanima Chatterjee
- 906 **Soybean MAGIC population: a novel resource for genetics and plant breeding**
M. Shivakumar, Giriraj Kumawat, C. Gireesh, S. V. Ramesh and S. M. Husain
- 909 **Moisture-dependent physical and physiological properties of accelerated aged pea (*Pisum sativum* L.) seeds**
Manoj Kumar Mahawar, D. V. K. Samuel, J. P. Sinha and Kirti Jalgaonkar
- 915 **Proline-rich proteins may regulate free cellular proline levels during drought stress in tomato**
Ranjit Singh Gujjar, Suhas G. Karkute, Ashutosh Rai, Major Singh and Bijendra Singh

BOOK REVIEWS

- 921 **Protected Areas: Are They Safeguarding Biodiversity?** L. N. Joppa, J. E. M. Baillie and J. G. Robinson (eds); *reviewed by* S. Suresh Ramanan ■ **922 Sparks from the Spirit: from Science to Innovation, Development and Sustainability**, Yongyuth Yuthavong; *reviewed by* D. Balasubramanian
- 923 **Publications received – 2017**



- ◀ **COVER.** Mudh village in Pin Valley, Himachal Pradesh, India. The village lies at an altitude of 3850 m.a.s.l and depends on glacier and snowmelt for its water needs. See special section.

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