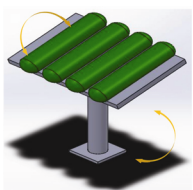


CURRENT SCIENCE

Volume 113 Number 2

25 July 2017

-
- 194 **In this issue**
- GUEST EDITORIAL**
- 195 **Supporting start-ups**
Gayatri Saberwal
-
- CORRESPONDENCE**
- 197 **Responding to requests, Subir Bandyopadhyay and Avishek Bhattacharjee** ■ 197
Research at undergraduate level, S. S. Verma
-
- NEWS**
- 198 **Science Last Fortnight** ■ 202 **Wildlife conservation efforts: Sanjay Gubbi wins Whitley Award 2017, S. Priya** ■ 204 **Innovation and science, Jenifer Clark**
-
- OPINION**
- 206 **How to protect our valuable riverine fish species from multiple stressors?**
K. D. Joshi
-
- SCIENTIFIC CORRESPONDENCE**
- 208 **Advanced computational procedures for the understanding of agricultural processes, Naveen Kalra, J. C. Biswas, M. Maniruzzaman, A. K. Choudhury, S. Akhter, F. Ahmed, M. A. Aziz, M. M. Rahman and M. M. Miah**
-
- GENERAL ARTICLES**
- 210 **Environment: a futuristic view**
J. S. Singh
- 218 **Deployment of underground coal gasification in India**
Akshay Singan and Vivek V. Ranade
-
- REVIEW ARTICLE**
- 228 **Recent advances in optimization of photoanodes and counter electrodes of dye-sensitized solar cells**
Saily Bhagwat, Riddhesh Dani, Prerna Goswami and M. A. K. Kerawalla
-
- RESEARCH ARTICLES**
- 236 **Teaching sustainability through traditional wisdom: a conceptual framework for business studies**
Ekta Sharma and Ruchi Tewari
- 245 **Pultruded fibre reinforced polymer planks as stay-in-place formwork for concrete structures**
Reema Goyal, Shweta Goyal and Abhijit Mukherjee
- 253 **Frequency-dependent electrical characterization of rock types from Ewekoro, Eastern Dahomey Basin, Nigeria**
O. B. Olatinsu, D. O. Olorode, M. Josh, B. Clennell and L. Esteban
- 264 **Estimation of crop coefficients and water productivity of mustard (*Brassica juncea*) under semi-arid conditions**
A. Gupta, A. Sarangi and D. K. Singh



- 272 **Modelling the effect of photoinhibition on microalgal production potential in fixed and trackable photobioreactors in Odisha, India**

Nazimdhine Aly, Rakesh Kumar Tarai, Paresh Govind Kale and Balasubramanian Paramasivan



- 284 **Classification of remote sensed data using hybrid method based on ant colony optimization with electromagnetic metaheuristic**

J. Jayanth, V. S. Shalini, T. Ashok Kumar and Shivaprakash Koliwad

RESEARCH COMMUNICATIONS

- 292 **Roof water harvesting in hills – innovations for farm diversification and livelihood improvement**

Anup Das, R. K. Singh, G. I. Ramkrushna, Jayanta Layek, A. K. Tripathi, S. V. Ngachan, B. U. Choudhury, D. P. Patel, D. J. Rajkhowa, Debasish Chakroborty and P. K. Ghosh

- 299 **Characterization of humic substances and their distribution of XAD fractions by absorption spectroscopy in the Godavari estuary, India**

N. V. H. K. Chari and Sudarsana Rao Pandi

- 304 **Management strategy to improve input use efficiency and enhance sorghum productivity per stored rain drop in vertisols during rabi season**

S. R. Kumar, Prabhakar Bhat and P. V. Rajappa

- 307 **Can cold tolerance bring in hybrids on commercial front in winter sorghum?**

P. Sanjana Reddy and Sunil Gomashe

- 314 **Integrated nutrient management and formulation of targeted yield equations for black gram (*Vigna mungo* L.)**

Subhashis Saren, Antaryami Mishra and Pradip Dey

- 317 **Ants indicate urbanization pressure in sacred groves of southwest India: A pilot study**

T. P. Rajesh, U. Prashanth Ballullaya, Parvathy Surendran and Palatty Allesh Sinu

- 322 **Species diversity of white grubs (Coleoptera: Scarabaeidae) in the sub-Himalayan and northern plains of India**

K. Sreedevi, Sakshi Tyagi and Veena Sharma

- 329 **Influence of astronomical (lunar)/meteorological factors on the onset of dawn song chorus in the Pied Bush Chat (*Saxicola caprata*)**

Navjeevan Dadwal and Dinesh Bhatt

BOOK REVIEW

- 335 **The Grand Design**, Stephen Hawking and Leonard Mlodinow, *reviewed by* Chetan Datta Poduri

PERSONAL NEWS

- 337 **Predhiman Krishan Kaw (1948–2017)**, P. I. John and Abhijit Sen
-



- ◀ COVER. Pied Bush Chat (*Saxicola caprata*). See page 329.

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