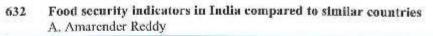
CURRENT SCIENCE

25 August 2016 Volume 111 Number 4 In this issue 598 GUEST EDITORIAL 599 Solar-DC: India towards energy independence Ashok Jhunihunwala CORRESPONDENCE Shanghai rankings 2016: poor performance of Indian universities, Hardey Singh 601 Virk 601 Coping with disability - suggestions to institutions, M. Vijayan 602 Measurement of background radiation, R. Mohanty; Response by Debashish Sengupta NEWS Science Last Fortnight 609 CSIR-NPL establishes facility for efficiency 605 validation of solar cells, Sushil Kumar and D. K. Aswal 609 Technology Vision 2035, Parul R. Sheth OPINION Air pollution linked to destruction of green belts in Delhi: a harsh reality 612 Mayank Tripathi COMMENTARY Enabling holistic approach towards women's health through Draft National 613 Health Policy, 2015 Sunita Sangar SCIENTIFIC CORRESPONDENCE Genetic fidelity studies in tissue culture raised plantlets of Himalayan poplar 615 (Populus ciliata Wall.) Ayesh Gaur, Gauray Aggarwal, Pankaj Kumar and D. K. Srivastava 617 Influence of flower colour and seasonality on plant invasion success R. Indhar Saidanyan, N. Kamaladhasan, N. Krishnankutty and S. Chandrasekaran 620 Automobile exhaust pollution: an imperceptible threat to sericulture in Kashmir, Faroz Ahmad Ahanger, Rugeya Nazir and Irfan Illahi Siderophores of haloalkaliphilic archaea from Lonar lake, Maharashtra, India 621 Jaysing Patil, Priyanka Suryawanshi and Shyam Bajekal TECHNICAL NOTES A differential electrometer for vector electric field measurements on a balloon 624 platform K. Jawahar, S. Manu and S. Gurubaran. GENERAL ARTICLES

Reflecting on the International Year of Light and light-based technologies

627

Sameen Ahmed Khan



REVIEW ARTICLE

641 Advanced trends in treatment of wounds Oshin John Miranda and Ganga Srinivasan

RESEARCH ARTICLES

- 648 Hepatitis B virus genome analysis in patients of hepatocellular carcinoma and asymptomatic carriers from northern, southern and North East India Manash Pratim Sarma, Giasuddin Ahmed, Subhash Medhi and Premashis Kar
- 662 Ligand-tagged cationic liposome facilitates efficient gene delivery to folate receptors

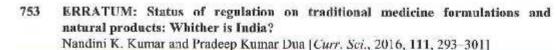
 Sridevi Gorle, Alisha Sewbalas, Mario Ariatti and Moganavelli Singh
- 671 Upregulation of Th1 polarization by Taraxacum officinale in normal and immune suppressed mice Kiranjeet Kour, Sarang Bani, Payare Lal Sangwan and Ajaydeep Singh
- 686 Perennial to ephemeral transformation of a Lesser Himalayan watershed Jiwan Singh Rawat, Ajit Govind, Geeta Rawat, Mallickarjun Joshi, Shive Prakash Rai and Navneet Gahlot
- 694 Effect of numerical truncation error on implicit finite difference methods in groundwater transport models
 K. V. Sruthi and Kim Hyun-su
- 700 Bus travel time prediction under high variability conditions Kranthi Kumar Reddy, B. Anil Kumar and Lelitha Vanajakshi

RESEARCH COMMUNICATIONS

- 712 Low-cost renewable hydrogen production using solar photovoltaic panel Saurabh Sonwani and Ram Prasad
- 717 Modelling of declining groundwater depth in Kurukshetra district, Haryana, India G. T. Patle, D. K. Singh and A. Sarangi
- 723 DB IndAlgae: an on-line resource of marine algae from India identified on the basis of molecular and morphological features Satej Bhushan, Richa Mehra, Pooja Rani and Felix Bast
- 727 Trends, periodicities and discontinuities of precipitation in the Huangfuchuan Watershed, Loess Plateau, China
 Yi He, Xingmin Mu, Peng Gao, Guangju Zhao, Fei Wang, Wenyi Sun, Pengfei Li and Jinxi Song
- 733 Predatory stress paradigm to induce anxiety-like behaviour in juvenile male C57BL/6J mice Abraão Tiago Batista Guimarães, Joyce Moreira de Souza, Wellington Alves Mizael da Silva, Bruna de Oliveira Mendes, Joice Gomes de Queiroz, André Luis da Silva Castro and Guilherme Malafaia
- 739 Transplantation worthiness of cryopreserved germ cells of Indian major carp rohu, Labeo rohita
 S. Patra, G. Mishra, S. K. Dash, D. K. Verma, S. Nandi, P. Jayasankar and P. Routray
- 747 Follar litter decomposition of four dominant tree species in the Hollongapar Gibbon Wildlife Sanctuary, Assam, North East India Moumita Sarkar, Ashalata Devi and Monoranjan Nath







BOOK REVIEWS

- 754 Essentials of Botanical Extraction: Principles and Applications, Subhash C. Mandal, Vivekananda Mandal and Anup Kumar Das, reviewed by Sarada Subramanian
- 755 Where Mathematics Goes Wrong...: Mathematical Fallacies, Howlers & Number Tricks..., Sachin Vyavahare and V. K. Mangwani, reviewed by Wallace Jacob

PERSONAL NEWS

756 B. P. Chandra (1946–2015) Hardev Singh Virk



COVER. Effect of automobile pollution on the quality of fresh mulberry leaves. Left, Leaf from a plantation near the roadside; right, Leaf from a plantation far away from the road. See page 620.

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