

CURRENT SCIENCE

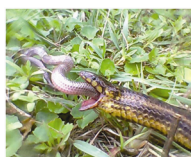
Volume 112 Number 6

25 March 2017

1078 In this issue

GUEST EDITORIAL

- 1079 Joy of discovery as a reason for pursuing a career in science**
B. Ananthanarayan



CORRESPONDENCE

- 1081 Professional doctorates and Ph D holders, Anantanarayanan Raman ■ 1081 Opportunistic feeding behaviour of *Xylophis perroteti* in Emerald Valley, Nilgiris, Tamil Nadu, India, P. Santhoshkumar and P. Kannan ■ 1082 Data analytics: India needs an agency for health data, Partha Pratim Ray**

NEWS

- 1083 Science Last Fortnight ■ 1087 Infosys Prize in Life Sciences 2016, Sasirekha Ramani ■ 1088 2017 King Faisal International Prize for Science and Medicine, Sameen Ahmed Khan ■ 1090 Teacher training workshops in India, R. Shankar, Nir Orion, Chris King, Anish Kumar Warriar, A. M. Narahari and S. G. S. Swamy ■ 1093 Plant molecular farming, R. Satishkumar and Ma K.-C. Julian ■ 1094 Solar-DC inverterless: an Indian technology bags IEEE Spectrum ‘Technology in the Service of Society’ Award 2017, Prabhjot Kaur**

RESEARCH NEWS

- 1095 An island chain lost in the Bay of Bengal**
K. Srinivas, K. S. Krishna, M. Ismaiel, J. Mishra and D. Saha

OPINION

- 1097 Can insecticide resistance be developed in termites?**
G. K. Mahapatro

COMMENTARY

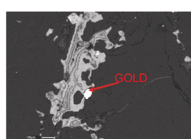
- 1099 The Paris Climate Change Agreement and after**
Manu V. Mathai and P. S. Narayan

TECHNICAL NOTES

- 1101 Effect of confining pressure on the mechanical properties of thermally treated sandstone**
Feng Xu, Chunhe Yang, Yintong Guo, Tongtao Wang, Lei Wang and Ping Zhang

SCIENTIFIC CORRESPONDENCE

- 1107 Implications of mistaken identities in conservation of wild mangoes**
M. Venkat Ramana, P. Venu and M. Sanjappa
- 1109 A bird’s-eye view of landslide dammed lakes in Zaskar Himalaya, India**
K. Babu Govindha Raj, Tapas R. Martha and K. Vinod Kumar
- 1112 Coordinates and chronology of the ancient port city of Poompuhar, South India**
Sm. Ramasamy, J. Saravanel, C. J. Kumanan and S. Gunasekaran
- 1115 Incidence of gold associated with copper mineralization in Garhwal Lesser Himalaya, Rudraprayag district, Uttarakhand, India**
P. S. Misra, Arindam Das, S. Balakrishnan and A. Anand



- 1118 **Fishes inhabiting fly ash-polluted tributary of Hasdeo river, Chhattisgarh, India**
Shikha Shrivastav and Sushma Singh

GENERAL ARTICLES

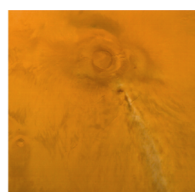
- 1121 **Are small-sized firms really innovative? Understanding the Indian scenario**
Debanjana Dey
- 1127 **If systems approach is the way forward, what can the ayurvedic theory of *tridosha* teach us?**
Rama Jayasundar
- 1134 **Research on literature involving zirconia-based on Pubmed database: a bibliometric analysis**
Huiyan Yu, Zhuangzhi Zhi, Chunxia Zhang and Huazhe Yang

REVIEW ARTICLE


- 1138 **Water quality of River Beas, India**
Vinod Kumar, Anket Sharma, Ashwani Kumar Thukral and Renu Bhardwaj

RESEARCH ARTICLES

- 1158 **Correction of Mars Colour Camera images for identification of spectral classes**
Kurian Mathew, A. S. Arya, Harish Seth, S. Manthira Moorthi and P. N. Babu
- 1165 **DNA methylation changes in a gene-specific manner in different developmental stages of *Drosophila melanogaster***
Chitra S. Panikar, Mandar S. Paingankar, Saniya Deshmukh, Varada Abhyankar and Deepthi D. Deobagkar
- 1176 **Changes in vapour pressure deficit and air-to-leaf temperature difference due to the effects of watering frequency and seasonal variation-induced adaptive responses in *Balanites aegyptiaca* in Saudi Arabia**
A. A. Elfeel
- 1183 **Antioxidant and alleviatory effects of hydroalcoholic extract of cauliflower leaves against sodium fluoride-induced cardiotoxicity in Wistar male rats**
Raghavendra Mitta, Ravindra Reddy Kandula, Raghuvveer Yadav Pulala, Narasimha Jayaveera Korlakunta and Uma Maheswara Rao Vattikuti
- 1187 **Balancing conservation and development in Nandhaur Wildlife Sanctuary, Uttarakhand, India**
Michelle Irengbam, Pariva Dobriyal, Syed Ainul Hussain and Ruchi Badola
- 1197 **Macropore flow as a groundwater component in hydrologic simulation: modelling, applications and results**
M. Ranjit Kumar, T. Meenambal and V. Kumar
- 1208 **Estimation of snow accumulation on Samudra Tapu glacier, Western Himalaya using airborne ground penetrating radar**
K. K. Singh, H. S. Negi, A. Kumar, A. V. Kulkarni, S. K. Dewali, P. Datt, A. Ganju and S. Kumar
- 1219 **Inter- and intra-annual variations in the population of *Tripes* from the Bay of Bengal**
Rajath R. Chitari, Arga Chandrashekar Anil, Vinayak V. Kulkarni, Dhiraj D. Narale and Jagadish S. Patil
- 1230 **Identification of single nucleotide polymorphism from Indian *Bubalus bubalis* through targeted sequence capture**
A. B. Patel, R. B. Subramanian, H. Padh, T. M. Shah, A. Mohapatra, B. Reddy, S. J. Jakhesara, P. G. Koringa, D. Dash and C. G. Joshi
- 1239 **Erratum: Should Indian researchers pay to get their work published?**
Muthu Madhan, Siva Shankar Kimidi, Subbiah Gunasekaran and Subbiah Arunachalam
[*Curr. Sci.*, 2017, 112(4), 703–713]



RESEARCH COMMUNICATIONS

- 1240 **Making scientometric sense out of NIRF scores**
Gangan Prathap
- 1242 **Hierarchy of parameters influencing cutting performance of surface miner through artificial intelligence and statistical methods**
A. Prakash and V. M. S. R. Murthy
- 1250 **Evaluation of the genetic diversity and population structure in drumstick (*Moringa oleifera* L.) using SSR markers**
R. Rajalakshmi, S. Rajalakshmi and Ajay Parida
- 1257 **Inferring gene regulatory networks using Kendall's tau correlation coefficient and identification of salinity stress responsive genes in rice**
Samarendra Das, Prabina Kumar Meher, Upendra Kumar Pradhan and Amrit Kumar Paul
- 1262 **An interactive computer vision system for tree ring analysis**
S. Subah, S. Derminder and C. Sanjeev
-  1266 **QTL mapping for early ground cover in wheat (*Triticum aestivum* L.) under drought stress**
Biswajit Mondal, Anupam Singh, Aneeta Yadav, Ram Sewak Singh Tomar, Vinod, Gyanendra Pratap Singh and Kumble Vinod Prabhu
- 1272 **Impact of particulate pollution on photosynthesis, transpiration and plant water potential of teak (*Tectona grandis* L.)**
P. Anooob, A. V. Santhoshkumar and Paul C. Roby

BOOK REVIEWS

- 1277 **Annual Review of Earth and Planetary Sciences, 2016**, Raymond Jeanloz and Katherine H. Freeman (eds), *reviewed by* C. P. Rajendran
- 1279 **Psychological Perspectives on Childcare in Indian Indigenous Health Systems** by Kapur Malavika, *reviewed by* Bharat Chandra Rout
- 1280 **Soil Health and Climate Change**, Bhupinder Pal Singh, Annette L. Cowie and K. Yin Chan (eds), *reviewed by* Akhilesh Kumar, Durgesh Kumar Jaiswal and Jay Prakash Verma

PERSONAL NEWS

- 1282 **Eugene Garfield (1925–2017)**
Subbiah Arunachalam
- 1285 **J. G. Negi (1936–2016)**
Arun Bapat
-

◀ COVER. Ayurvedic model of human system for an integrated approach. See page 1127.

Indexed in CURRENT CONTENTS/GEOTitles/SCOPUS/
WEB OF SCIENCE