GUEST EDITORIAL

2225 Indian science must attract more international students – opportunities for our Academics
P. J. Lavakare

CORRESPONDENCE

- 2227 Impact of abrupt weather change on benthic life: a note on sea hare in a tropical coast, Gujarat, India
 Santosh Gaikwad, Sabyasachi Sautya, Udita Basu, Anirudh Ram and Sanofar Khokher
- 2228 DBT Star College Scheme: a positive intervention in capacity building in colleges Monika Koul

NEWS

- 2230 Science Last Fortnight
- **Drug discovery: mining microbes for bioactive compounds**Hemant J. Purohit, Yogesh Shouche and Arun Balakrishnan
- 2236 C. N. R. Rao wins the Materials Research Society's Von Hippel Award
- 2236 Infosys Prize 2017
- 2237 Science jargon and society S. Priya
- 2238 Biodiversity conservation in the Arabian Peninsula
 Sanjay Gairola, Hatem A. Shabana, Tamer Mahmoud, Shahina A. Ghazanfar and
 Ali El-Keblawy
- 2239 Strategic environmental assessment of hydropower projects
 Jagdish Chandra Kuniyal, Renu Lata, Amit Kumar, Bhim Chand, Nidhi Kanwar,
 Sheetal Chaudhary, Kireet Kumar and Pitamber Prasad Dhyani
- **2241 Women empowerment** Sunita Sangar

RESEARCH NEWS

2243 What lies beneath the anamolous geoid low in the Indian Ocean?

Dhananjai K. Pandey

SCIENTIFIC CORRESPONDENCE

- **Hepatomyoencephalopathy in Malkangiri district of Odisha, India** T. Jacob John, G. Arunkumar, Madan M. Pradhan and Mukul Das
- 2246 Solar-powered on-farm storage structure for fruits and vegetables P. K. Sharma, S. M. Mansuri and D. V. K. Samuel
- 2249 Polygonum polystachyum: peril to biodiversity of the alpine ecosystem, Western Himalaya, India
 Vikram S. Negi, R. K. Maikhuri and Ajay Maletha





ĹV



2251 Recycling sugar effluent in hybrid flow constructed wetland and reusing for agriculture

J. D. Sophia, Jastin Samuel and J. Hemamalini

2253 Quantification of rainfall during the late Miocene-early Pliocene in North East India

Gaurav Srivastava, R. P. Tiwari and R. C. Mehrotra

GENERAL ARTICLES

2258 Revisiting the Kothari Commission (1964–66) Report from the perspective of strengthening our science education and research enterprise

Dipankar Mukhopadhyay

2262 Science communication as an academic discipline: an Indian perspective Abhay S. D. Rajput

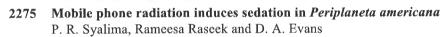
REVIEW ARTICLE

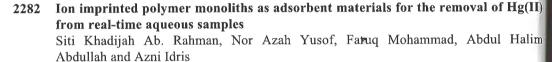
Chaitanya G. Joshi

2268 Combinatorial optimization in science and engineering Julius Beneoluchi Odili

A. Suman Kumar, Sonali Ghike and V. N. Dhengre

RESEARCH ARTICLES





2292 Genome-wide analysis of a potent functional dairy starter bacterium Streptococcus thermophilus MTCC 5460: a comprehensive study of its dairy Niche adaptive features

Jashbhai B. Prajapati, Hemaxi P. Zala, Neelam M. Nathani, Manisha Sajnani and

Field testing of indigenously synthesized sex pheromone for the management of Phyllocnistis citrella Stainton under central Indian conditions

C. N. Rao, Anjitha George, A. R. Prasad, Hafeez Ur Rehman, Rathod Aravind Kumar,

2305 Interactive effect of elevated carbon dioxide and elevated temperature on growth and yield of soybean
Narendra K. Lenka, Sangeeta Lenka, J. K. Thakur, R. Elanchezhian, S. B. Aher, Vidya

Antagonistic interactions of sponge-associated Actinobacteria heterotrophic bacteria from sponge and ambient water
N. S. Subina, C. S. Sonam, Shanta Nair and Maria-Judith Gonsalves

Simaiya, D. S. Yashona, A. K. Biswas, P. K. Agrawal and A. K. Patra

2317 Dendrogeomorphic potential of the Himalaya – case studies of process dating of natural hazards in Kullu valley, Himachal Pradesh
Amalava Bhattacharyya, Markus Stoffel, Mayank Shekhar, Juan Antonio Ballesterol Cánovas and Daniel Trappmann

RESEARCH COMMUNICATIONS

325 Transition probability approach for direct calculation of coefficients configuration interaction wave function
Arijit Bag





agains

- 2328 Satellite-based mapping and monitoring of heavy snowfall in North-Himalaya and its hydrologic consequences Bhaskar R. Nikam, Vaibhav Garg, Prasun K. Gupta, Praveen K. Thakur, A. Şenthil Kumar, Arpit Chouksey, S. P. Aggarwal, Pankaj Dhote and Saurabh Purohit
- New approaches towards measuring cupule volume for empirical analysis: an experimental study from Brahmagiri, Southern India
 R. Arjun
- 2341 M 6.7, 4 January 2016 Imphal earthquake: dismal performance of publicly-funded buildings
 Durgesh C. Rai, Hemant B. Kaushik and Vaibhav Singhal
- 2350 Negative allometry for egg size in ladybeetles (Coleoptera: Coccinellidae): Tradeoff between egg hatch time and size B. K. Agarwala and A. F. G. Dixon
- Application of indigenously developed remotely operated vehicle for the study of driving parameters of coral reef habitat of South Andaman Islands, India

 S. Ramesh, G. A. Ramadass, V. Doss Prakash, C. S. Sandhya, R. Ramesh, D. Sathianarayanan and N. V. Vinithkumar
- Foraging rhythm of bees in relation to flowering of sweet basil, Ocimum basilicum L.
 D. P. Abrol, Uma Shankar and Debjyoti Chatterjee

BOOK REVIEWS

- 2363 Indira Gandhi: A Life in Nature by Jairam Ramesh, reviewed by Kartik Shanker
- 2364 Annual Review of Nuclear and Particle Science, 2016, Barry R. Holstein, Wick C. Haxton and Abolhassan Jawahery (eds), reviewed by B. Ananthanarayan

PERSONAL NEWS

- 2367 Mihir Chowdhury (1937–2017): scientist and teacher extraordinaire D. S. Ray and S. P. Bhattacharyya
- 2373 Institutional Members
- 2380 Acknowledgements



COVER. Underwater photo of Polar cum Shallow water Remotely Operated Underwater Vehicle deployed at South Andaman Coral islands with high definition visuals of corals and associated fauna. See page 2353.

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