

# CURRENT SCIENCE

Volume 122 Number 4

25 February 2022

366 In this issue

## GUEST EDITORIAL

- 367 Coastal agriculture and aquaculture in India: outlooks in the context of climate change  
S. Ayyappan and B. Mohan Kumar

## CORRESPONDENCE

- 369 Asservation of mangroves on the Gulf of Mannar, Tamil Nadu, India  
V. Sankara Vel, A. Arunprasath and S. Sreeram
- 369 Mass occurrence of blue button hydrozoan fauna in the Lakshadweep Archipelago, India  
N. Marimuthu, S. Vignesh Kandasamy, C. N. Abdul Raheem and K. K. Idreesbabu

## NEWS

- 371 Bioengineers are close to finding a cure for arthritis  
Arjun R. Krishnan
- 372 2021 UNESCO Sultan Qaboos Prize for Environmental Conservation  
Sameen Ahmed Khan
- 373 Bioelectronic medicine  
U. Kesarwani, A. K. Dubey, Asish Kumar Panda, B. Basu and Jonny J. Blaker
- 376 Current Science Reports

## OPINION

- 380 Orthopaedic segment in India – from pandemic dormancy to a better future  
Arvind Kumar Prajapati and Manoj Komath

## COMMENTARY

- 384 Remembering the remnants of trout fisheries in the Nilgiris, Western Ghats, South India  
Walter Devaa and U. Ramesh

## GENERAL ARTICLES

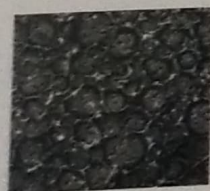
- 386 Policy perspectives on agricultural water management and associated technologies suitable for different agro-climatic zones of West Bengal, India  
K. G. Mandal, A. K. Thakur, R. K. Mohanty, A. Mishra, Subhas Sinha and Benukar Biswas
- 396 Disrupting predatory journals  
G. Leena and V. K. J. Jeevan

## REVIEW ARTICLE

- 402 Indian astronomical tables – a study with special reference to *Makarandasārinī*  
Banuvalli Chetana, M. and S. K. Uma

## RESEARCH ARTICLES

- 405 Development of carbon membrane for CO<sub>2</sub>/N<sub>2</sub> and CO<sub>2</sub>/CH<sub>4</sub> separation  
Abdulaziz A. Alomair



- 410 **Design and optimization of solar parabolic trough collector with evacuated absorber by grey relational analysis**  
S. Arunkumar and K. Ramesh
- 419 **Coal dust monitoring and computational simulations of dust dispersion in continuous miner development heading through auxiliary ventilation systems**  
Aashish Sahu and Devi Prasad Mishra
- 429 **Evaluation of chemopreventive potential of xanthone from *Swertia chirata* against DMBA/croton oil-induced chemical carcinogenesis in Swiss mice**  
Atish Barua, Pritha Choudhury, Chinmay Kumar Panda and Prosenjit Saha
- 439 **Use of machine learning algorithms for damage estimation of reinforced concrete buildings**  
Swapnil Nayan and Pradeep Kumar Ramancharla
- 448 **Key informant perceptions on wildlife hunting during the first COVID-19 lockdown in India**  
Uttara Mendiratta, Munib Khanyari, Nandini Velho, Kulbhushansingh Ramesh Suryawanshi and Nirmal Kulkarni

---

#### RESEARCH COMMUNICATIONS

- 455 **Predicting the service life of high-voltage insulators using actual leakage current values**  
Ivanov Valeriy and Breido Iosif
- 461 **Experiment results of a novel sub-bottom profiler using synthetic aperture technique**  
Xuebo Zhang, Peixuan Yang and Miao Sun
- 464 **Efficient molecular method/s for detection of *Bt* brinjal Event 142**  
Ruchi Sharma, Monika Singh and Gurinderjit Randhawa

---

#### BOOK REVIEWS

- 469 **Homi Bhabha: A Visionary & Science Administrator Extraordinaire.** Narendra Dutt Sharma and Baldev Raj; *reviewed by* Arun Kumar Grover ■ 473 **Scorched Earth: Environmental Warfare as a Crime against Humanity and Nature.** Emmanuel Kreike; *reviewed by* Meera Baidur
- 
- 475 **Publications received – 2021**
- 



- ◀ COVER. SST and wind mediated occurrence of Blue button Hydrozoan fauna, *Porpita porpita* (Linnaeus, 1758) in the Lakshadweep Archipelago. See page 369.

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