## CURRENT SCIENCE

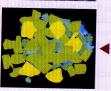
Volume 126 Number 3

10 February 2024

294	In this issue
1	GUEST EDITORIAL
295	Revisiting radiation realities Dinesh K. Aswal and Anirudh Chandra
	CORRESPONDENCE
297	Should scientists seek Government approval for accepting awards? S. Ramasesha
297	The dangers of purely numerical rankings in the World of Science Kishore M. Paknikar
298	In-house-built isothermal visual assays for rapid detection of African swine fever Gyanendra Singh Sengar, Soumendu Chakravarti, Rajib Deb, Seema Rani Pegu, Joyshil Sonowal, Swaraj Rajkhowa, Pranab Joyti Das and Vivek Kumar Gupta
	NEWS Supra
299	Current Science Reports
303	Raj-Prathama: India's first Marwari filly born through embryo transfer technology Thirumala Rao Talluri, Sajjan Kumar, Yash Pal, Ram Avtar Legha, Ramesh Kumar Dedand Tarun Kumar Bhattacharya
304	Assured access to neutron and muon sources at RAL, UK under the DST-STF collaboration Rahul Kumar, Poonam Yadav and A. Sundaresan
18 220	SCIENTIFIC CORRESPONDENCE
307	Theoretical modelling of alpha particle-induced X-ray signals from the lunar surface Debabrata Banerjee
	GENERAL ARTICLE
309	National Geospatial Policy: perspectives on height systems, vertical datums and gravimetric geoid modelling in India Ropesh Goyal and Onkar Dikshit
	REVIEW ARTICLE
320	The influence of type-2 diabetes on cataract and their shared genetic basis through relevant genome-wide association studies  Janaki Sneha, Saravanan Yogaprabhu, Ranjit Mohan Anjana, Viswanathan Mohan and Venkatesan Radha



326



## RESEARCH ARTICLES

Advancing GIS map maintenance: change detection and update using ResU-Net: a case study on Chandigarh and Hyderabad cities, India
S. Vasavi, Dibyaranjan Parida, N. Malathi, M. Sobhana and Reedhi Shukla

A hybrid of GNSS remote sensing and ground-based laser technology for georeferenced surveying in mining

Amar Prakash, Aniket Verma, Anand Sharma, Prerna Jaiswal and Sujit K. Mandal

- Sources of rare earths and prospects for a viable REE deposit in river sediments of Kerala, southwest India
  Shaik Sai Babu, A. Prajith, V. Purnachandra Rao, M. Ram Mohan, R. V. Ramana and N. Satyasree
- 360 Machine learning algorithms for predicting rainfall in India Sandip Garai, Ranjit Kumar Paul, Md. Yeasin, H. S. Roy and A. K. Paul
- 368 Inventive behaviour of farm scientists: a structural equation model Balusu Gopichand, V. L. Madhuprasad and G. Chaitra
- Natural rubber: a renewable industrial raw material with negative carbon footprint K. Annamalainathan and James Jacob
- 281 Efficacy of short-term cognitive group treatment to reduce obesity among overweight Indian women: a randomized control trial F. Muskan, S. Jain and K. Bains
- 388 Method to assess the accessibility of essential amenities in Tripura, North East India Mukti Advani and Partha Pratim Sarkar

## **BOOK REVIEW**

395 Machine Learning for Neuroscience: A Systematic Approach. Chuck Easttom; reviewed by Zilong Zhong and Hui Guo

## **ACADEMY NEWS**

397 Indian Academy of Sciences announces new Fellows for 2024



◆ COVER. Raj-Prathama: India's first Marwari filly born through embryo transfer technology. See page 303.

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

