

CURRENT SCIENCE

Volume 129 Number 10

25 November 2025

850 Highlights of the Issue

GUEST EDITORIAL

- 851 Strengthening India's energy security in a changing global context**
S. Dasappa
-

NEWS

- 853 The 2025 Nobel Prize in Physics**
Apoorva D. Patel and Vibhor Singh
-


RESEARCH NEWS

- 857 Cirriped barnacles: a major threat to the economically important marine crabs in its natural environment**
L. Bindu, P. Arya, Deepa R. Pillai and P. T. Aneesh
-

SCIENTIFIC CORRESPONDENCE

- 859 Upgradation of aviation meteorological services through installation of advanced weather observing systems in India and its impact on the accuracy of aviation forecast**
Anoop Kumar Mishra, Gajendra Kumar, Sourav Adhikary, Neeti Singh, Krishna Kumar Shukla and Srabanti Ballav
-

REVIEW ARTICLE

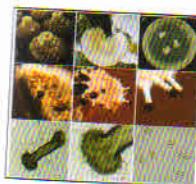
- 863 Mainstreaming Ayurveda healthcare modalities for the management of insomnia in geriatric populations: a scoping review of current evidence and future directions**
Niranjan Ram, Lalita, Meena S. Deogade, Pradip Kumar Panda and Tanuja Manoj Nesari
-


RESEARCH ARTICLES

- 876 Satellite remote sensing-based analysis of agricultural stubble burning and its impacts on air quality in Haryana**
Anshul Yadav, Jayanarayanan Kuttippurath and G. S. Gopikrishnan
- 886 Advanced hybrid deep learning methodology for Alzheimer's disease detection**
Tulip Das, Chinmaya Kumar Nayak and Parthasarathi Pattnayak
-

- 894 A dual-platform approach to DNA methylation profiling in blood and tissue for non-invasive diagnosis of urinary bladder cancer**
Amandeep Singh, Bhasker Mukherjee, G. Rahul, Mukesh Singh, Jyothsana Vardhani Pabbineedi and Rattan Deep Singh

- 900 Dynamical behaviour of the time-dependent Ginzburg-Landau equation for atomic Fermi gases near the BCS-BEC crossover**
Chunyan Xiong and Shuhong Chen



- ◀ 909 Unraveling the mycosphere microbiome: bacterial diversity in *Pleurotus cystidiosus* substrates
Lakshitha Kumara, J. M. A. I. K. Jayamanna, T. C. Bamunuarachchige, Ajith I. Rathnayake and Gayan Abeysinghe
-
- RESEARCH COMMUNICATIONS
- 921 Evidence of shift in stubble burning timing over northwest India from geostationary satellite observations
Nimisha Singh, Rohit Pradhan, Bipasha Paul Shukla and Mehul R. Pandya
- 924 A rare bloom and a buzz of life: bee communities visiting *Strobilanthes callosus* flowering in the northern Western Ghats, India
Amar Kharmate, Sarika Torawane, Samadhan Phuge and Varsha Wankhade
-



- ◀ COVER. Bee visiting the flower. See page 924.