

# CURRENT SCIENCE

Volume 129 Number 2

25 July 2025



C.S  
391

**Flax: the economic crop transforming lives**

**Insights on geologic hydrogen from marine settings**

**Safeguarding caprock: strategies for carbon storage success**



# CURRENT SCIENCE

104 **Highlights of the Issue**

**EDITORIAL**

- 105 **Air pollution impact on neurocognitive development**  
H. Paramesh

**CORRESPONDENCE**

- 107 **A multi-species foraging aggregation of Delphinids in Western Indian waters**  
R. Ratheesh Kumar, U. Utthamapandian and K. R. Aju

**COMMENTARY**

- 108 **Invasion of small hive beetle (*Aethina tumida* Murray 1867) in India: an emerging threat to bee health and beekeeping**  
Sourabh Maheshwari

**GENERAL ARTICLE**

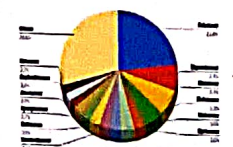
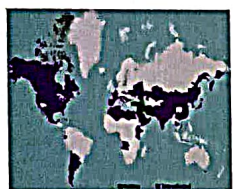
- 111 **Flax: a valuable economic crop with a boon of natural products for human welfare**  
Alok Kumar Panda, Shatabisha Bhattacharjee, Subhojit Datta and Dipnarayan Saha

**REVIEW ARTICLES**

- 118 **Marine litter assessment using remote sensing techniques – a review**  
Kharatmole Gayathri, Sisir Kumar Dash, Tune Usha, Palanisamy Thanabalan, Kandasami Nimalan, Thangavelu Mayamanikandan, Pravakar Mishra and Mallavarapu Venkata Ramana Murthy
- 129 **Ensuring long-term caprock integrity in carbon capture, utilisation and storage: a comprehensive review of geo-mechanical and monitoring approaches**  
Mohd Sadiq, Ravi Sharma, Beer Singh Bisht and Manisha Chaudhary

**RESEARCH ARTICLES**

- 139 **Risk to resilience: analysing barriers to cyclone vulnerability in coastal Odisha**  
Subhakanta Mohapatra, Anil Kumar Gupta, Uma Shankar Singh and Rakesh Ranjan Thakur
- 146 **Alterations in 3D vectorcardiographic loop length in acute myocardial infarction patients: a quantitative study**  
Tania Ghosal, Imran Ahmed, Soham Mukhopadhyay, Damodar Prasad Goswami, Anupam Bandyopadhyay and Arnab Sengupta
- 151 **Understanding chlorophyll dynamics in aquatic ecosystems in Bay of Bengal**  
Hari Warrior and P. V. Nagamani
- 158 **How do urban trees vary across India? a comparative analysis across ten Indian cities**  
Satyajit Oraon, Prachi Gupta and Jayanti Ray-Mukherjee
- 169 **Performance of *Melia dubia* under different planting densities: effects on growth and carbon sequestration**  
D. C. Hanumanthappa, V. Bhaskar, B. H. Ganesh, Rajath Kumar and Nagaraju



## RESEARCH COMMUNICATION

- 175 **Glauconite and ferric illite authigenesis in marine settings as a source for geologic hydrogen**  
Ayoti Banerjee, Santanu Banerjee, Amlan Banerjee and Somnath Dasgupta
- 

## PERSONAL NEWS

- 179 **K. Kasturirangan (1940–2025) – a Unique Legacy**  
V. Jayaraman
- 



◀ COVER. Flax plant and its economic products. See page 111.

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