

# CURRENT SCIENCE

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- 1891 Earth Sciences for societal and economic benefits**  
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**CORRESPONDENCE**

- 1893 Recent forest fire in Uttarakhand**  
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- 1894 Language families in India**  
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**NEWS**

- 1895 Science Last Fortnight**
- 1897 Shanti Swarup Bhatnagar Prize for Science and Technology 2016**
- 1901 Infosys prize in physical science**  
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- 1903 Communicating through visible light: internet of things perspective**  
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**RESEARCH NEWS**

- 1906 Folk medicine meets metabolomics and public health**  
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**COMMENTARY**

- 1908 Undergraduate research in physics: an Indian perspective**  
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**SCIENTIFIC CORRESPONDENCE**

- 1911 Effect of environmental temperature on the isolation of *Mycobacterium tuberculosis* from sputum samples stored in cetylpyridinium chloride**  
Dasarathi Das and Bhagirathi Dwivedi
- 1912 Perspectives for geoscience in India**  
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- 1914 Unique geological and geomorphic features of River Ken with a bedrock channel**  
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- 1917 Gold and uranium occurrences in quartz-pebble conglomerate of Iron Ore Group, Bagiyabahal–Baratangra area, Sundargarh district, Odisha, India**  
Ashim Jana, B. C. Sarkar, Suresh Kumar, Ajay Kumar, G. S. Yadav and Pramod Kumar
- 1921 The *Pollu* beetle in Andamans – do several lies make a truth?**  
S. Ramani

**GENERAL ARTICLES**

- 1924 Publication delay of manuscripts in periodicals published by CSIR-NISCAIR**  
K. C. Garg



- 1929 **Eco-technologies for agricultural and rural livelihoods in North East India**  
Prasanna K. Samal, Er. Mahendra S. Lodhi, Satish C. Arya, Rakesh C. Sundriyal and  
Pitambar P. Dhyani

#### REVIEW ARTICLES

- 1936 **Extracting cell and fibre orientation from microscopic images: computational methods and tools**  
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- 1946 **Sustainable options for mitigation of major toxicants originating from electronic waste**  
Amrik Bhattacharya and S. K. Kharc

#### RESEARCH ARTICLES

- 1955 **Livestock farming in the Uttarakhand Himalaya, India: use pattern and potentiality**  
Vishwambhar Prasad Sati
- 1961 **Amelioration of soybean plant from saline-induced condition by exopolysaccharide producing *Pseudomonas*-mediated expression of high affinity K<sup>+</sup>-transporter (*HKT1*) gene**  
Amrita Kasotia, Ajit Varma, Narendra Tuteja and Devendra Kumar Choudhary
- 1968 **Non-organic solid wastes – potential resource for construction materials**  
B. V. Venkatarama Reddy, H. Hemanth Kumar, S. N. Ullas and K. Gourav
- 1977 **Estimation of glacier mass balance on a basin scale: an approach based on satellite-derived snowlines and a temperature index model**  
S. A. Tawde, A. V. Kulkarni and G. Bala
- 1990 **Effect of submarine canyons on tsunami heights, currents and run-up off the southeast coast of India**  
Jaya Kumar Seelan, R. Mani Murali and T. E. Baldock

#### RESEARCH COMMUNICATIONS

- 2005 **Directed rotational motion of birefringent particles by randomly changing the barrier height at the threshold in a washboard potential**  
Basudev Roy and Erik Schäffer
- 2008 **Greener production of magnetic nanoparticles and their fabrication**  
Ashima Sharma and Kavita Tapadia
- 2014 **Speckle-type POZ protein acts as a predictive biomarker for mTOR target therapy in renal cell carcinoma**  
Ashutosh Chauhan, Rani Ojha, Deepak Kumar Semwal, Satyendra Prasad Mishra and Ruchi Badoni Semwal
- 2020 **Solar-powered evaporatively cooled vegetable vending cart**  
D. V. K. Samuel, P. K. Sharma and J. P. Sinha
- 2022 **Development of ELISA exploring recombinant variable surface glycoprotein for diagnosis of surra in animals**  
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- 2028 ***In vitro* evaluation of the antimalarial activity of a designed novel quinuclidine derivative**  
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- 2031 **Permeability of *Aloe vera* composite coatings and their effect on quality of peeled carrots**  
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- 2035 **Effect of ultra graphite application on morphological and physico-chemical properties of red soil**  
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- 2040 **Ancient Indians (Harappan settlement) were aware of tsunami/storm protection measures: a new interpretation of thick walls at Dholavira, Gujarat, India**  
R. Nigam, R. Dubey, R. Saraswat, Surdaresh, A. S. Gaur and V. J. Loveson
- 2044 **Incidence of aggressive territoriality between two ant species: *Camponotus compressus* Fab. and *Oecophylla smaragdina* Fab. (Hymenoptera: Formicidae)**  
Viyolla Pinto, M. S. Reddy, M. Pratheepa and Abraham Verghese

#### BOOK REVIEW

- 2047 **Romance of Innovation: Human Interest Story of R&D in Rural Setting** by Anil K. Rajvanshi, reviewed by K. S. Jayaraman

#### PERSONAL NEWS

- 2048 **Emilio Gatti (1922–2016)**  
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- 2050 **Institutional Members**



- COVER. *Oecophylla* nest on the new flush of inflorescence. See page 2044.

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