

# 1<sup>st</sup> International Conference on Functional Materials (ICFM-2022)

August 24-26, 2022

School of Studies in Physics and Astrophysics  
Center for Nano Science and Nano Technology  
Pt. Ravishankar Shukla University, Raipur (C. G.), India  
&  
Luminescence Society of India (LSI)

## Technical Report

The 1<sup>st</sup> International Conference on Functional Materials (ICFM-2022) was organized by School of Studies in Physics and Astrophysics and Centre for Nano Science and Nano Technology, Pt. Ravishankar Shukla University, Raipur and Luminescence Society of India (LSI). It was a three- days conference held from 24<sup>th</sup> – 26<sup>th</sup> August, 2022 at Seminar Hall, SoS in Geography, Pt. Ravishankar Shukla University, Raipur.

On the first day i.e. on 24<sup>th</sup> August 2022 the conference was inaugurated by chief guest honourable Prof. K.L. Verma, Vice Chancellor, Pt. R. S. University, Raipur, Guest of Honour Prof. KVR Chary, Department of Chemistry & Bio-chemistry, Rowan University, USA. Keynote Speaker President of LSI, Prof. KVR Murthy, MS University Varodara. After the formal inauguration, welcome speech was delivered by Prof. Nameeta Brahme, Prof. & Head, SoS in Physics and Astrophysics, Dr. Y. K. Mahipal (Convener-ICFM 2022) presented a brief introduction of Conference.

In felicitation ceremony Prof. S.K. Pandey, former vice-chancellor, Pt. RSU Raipur (C.G.), Prof. R.C. Agrawal (Retd.) and Prof. R.N. Baghel (Retd.), SoS in Physics & Astrophysics, Pt. R. S. University was honoured for their extra ordinary contributions in teaching and research. Honourable Vice-chancellor, Prof. K.L. Verma release the abstract of book. The speech related to the information about Pt. RS University was delivered by our Vice-chancellor, K.L. Verma. The last but not least, Vote of thanks was delivered by the secretary of the ICFM-2022 Mr. Chitrkant Belodhiya.



## **Technical Session-1**

The technical session was opened with Plenary talk by Prof. KVR Chary, Rowan University, USA, on the topic “Eco-friendly electro catalytic materials for Hydrogen Generation” and Plenary talk were given by Prof. S.B. Jonnalagadda, University of Kwazulu, Natal Durban, South Africa. One special Lecture was given by Prof. Balak Das from Lucknow University, Lucknow. The technical session was chaired by Prof. D.P. Bisen, SoS in Physics, Pt. R.S. University, Raipur.



## Technical Session-2

The technical session was opened with Keynote talk by Prof. KVR Murthy, MS University, Baroda, on the topic “Applications of Light Emitting Diodes in Smart Cities” and online talk were given by Prof. S. Ramesh, Department of Physics University of Malaya, Malaysia on the topic ”Hydro gels in energy devices towards sustainable smart cities”. The technical session was chaired by Prof. Anjali Oudhiya, Professor & Head, Govt. PG Science College, Raipur. SoS in Physics, Pt. R.S. University, Raipur.



## Second Day:-

### Technical Session-3

Second Day starts with the Planery talk by Prof. B.N Jagtap, Department of Physics, IIT Mumbai on the topic “Materials for Societal Applications” and Invited talk was delivered by Dr. Kamlesh Shrivastava, SoS in Chemistry, Pt. R.S University, Raipur. The technical session was chaired by Prof. Kavita Thakur, Professor & Head, SoS in Electronics & Photonics, Pt. R.S. University, Raipur.



### Technical Session-4

Dr. M. L. Verma, Department of Physics, Shree Shankaracharya Technical College, Bhilai on the topic “Ab initio approach of materials modelling for electrochemical and opto electronics devices.” and Invited talk was delivered through online mode by Dr. Ravindra

Kumar Gupta, King Abdullah Institute for Nano Technology, King Saud University, Riyadh. He delivers his talk on the topic of “A blend of Poly (Ethylene Oxide) and Tetramethylene Succinonitrile as a matrix for solid polymer electrolytes”. After that Dr. Ishwar Prasad Sahu and Dr. Vikas Dubey delivered Invited Technical talks. The technical session was chaired by Dr. N. K. Chakradhari, SoS in Physics & Astrophysics, Pt. R.S. University, Raipur.



### Technical Session-5

Poster session was organised in seminar hall in SoS in Physics & Astrophysics, their around 40 posters were displayed and the session was chaired by Dr. B. G. Sharma, Govt. Science College Raipur.



### Third Day:-

### Technical Session-6

Third day starts with the talk by Dr. Ajaya Kumar Singh, Govt. Science College Durg on the topic” Nano Materials based advanced oxidation processes for waste water treatment” and Dr. Jay Singh, GGU Bilaspur delivered his talk on the topic “ Two dimensional matelas Di-chalcogenides nano materials for transistor application”. The technical session was chaired by Dr. Ravi Sharma, Devendra Nagar Girls College, Raipur.



### Technical Session-7

Prof. S. J. Dhoble, RTM University Nagpur, on the topic “Natural Materials for high dose Thermoluminescence radiation dosimetry.” and Invited talk was delivered by Dr.

Manmohan Lal Satnami, SoS in Chemistry, Pt. Ravishankar Shukla University, Raipur on the topic of “Multi colour emissive carbon quantum dots for FRET dissection of gold nano rods”. The technical session was chaired by Dr. Laxmikant Chaware, CBS, Pt. R.S. University, Raipur.



### Technical Session-8

Dr. R. P. Patel, GGU Bilaspur delivered his talk on this session. The session was chaired by Dr. Govind Kumar Sahu, CBS, Pt. R.S. University, Raipur.

In this International Conference total 16 oral presentation delivered and around 41 posters were presented by participants came to different states. After this the conference was conclude by Prof. D. P. Bisen, Professor, SoS in Physics & Astrophysics, Pt. R.S. University, Raipur. On Valedictory function Best oral and Best poster prize has been announced and distributed certificates to the all participants.



## हाइड्रोजन के जरिए ईंधन की आपूर्ति पर आत्मनिर्भरता हासिल कर सकता है भारत

**इंटरनेशनल कॉन्फेंस** रविवार में अमरीकी साइंटिस्ट प्रो. केवीआर चॉरी ने कहा

व्यापार-प्रौद्योगिकी में तेजीवर्धमान 'एअरिंग' के विकास काफ़ी ज़रूरी है। दुनिया के राष्ट्रों का चीन से प्रतिस्पर्धा करने में सक्षम होना आवश्यक है। भारत में हाइड्रोजन ईंधन की आपूर्ति पर आत्मनिर्भरता हासिल कर सकता है।

**एक विचार से बदलाव**  
प्रो. केवीआर चॉरी ने बताया, एअरिंग के विकास के लिए ईंधन की आपूर्ति का सबसे महत्वपूर्ण पहलू है। भारत में हाइड्रोजन ईंधन की आपूर्ति पर आत्मनिर्भरता हासिल कर सकता है।

**व्यक्तिगत**  
प्रो. केवीआर चॉरी ने बताया, एअरिंग के विकास के लिए ईंधन की आपूर्ति का सबसे महत्वपूर्ण पहलू है। भारत में हाइड्रोजन ईंधन की आपूर्ति पर आत्मनिर्भरता हासिल कर सकता है।

**रिसर्च के लिए अग्रिम मदद की जरूरत**  
उन्होंने कहा कि हाइड्रोजन की आपूर्ति पर आत्मनिर्भरता हासिल कर सकता है। भारत में हाइड्रोजन ईंधन की आपूर्ति पर आत्मनिर्भरता हासिल कर सकता है।

**लक्ष्यों को पूरा करने में सक्षम होगा**  
उन्होंने कहा कि हाइड्रोजन की आपूर्ति पर आत्मनिर्भरता हासिल कर सकता है। भारत में हाइड्रोजन ईंधन की आपूर्ति पर आत्मनिर्भरता हासिल कर सकता है।

**उत्पादों की खपत कम करने पर है फोकस**  
उन्होंने कहा कि हाइड्रोजन की आपूर्ति पर आत्मनिर्भरता हासिल कर सकता है। भारत में हाइड्रोजन ईंधन की आपूर्ति पर आत्मनिर्भरता हासिल कर सकता है।





**Convener**