

**Arunai International Research Foundation, India &  
Sanata Dharma University, Yogyakarta, Indonesia**

# **International Conference on Advances in Science and Technology (ICAST-2022)**



**Dates : 17<sup>th</sup> & 18<sup>th</sup> Sep 2022**

**Mode : Online**



## About Sanata Dharma University

Sanata Dharma University aims to educate the youths by integrating academic excellence and humanistic values rooted in the universal Christian values and humanity as stated in Pancasila (the ideology of five principles), so that the youth would obtain academic abilities in accordance with their major and high integrity.

## About Arunai International Research Foundation

Arunai International Research Foundation was founded in February 25th , 2016 - Licensed under Section 8 of Companies Act, 2013, Ministry of Corporate Affairs, Government of India. It is constituted to spread and emphasise the cause of multidisciplinary research subjects in international scenario. Arunai International Research Foundation, Tiruvannamalai, Tamil Nadu, India founded by Mrs. Ekambaram Radha and Dr.Kasi Kamalakannan, the Directors are actively involving in promoting the realm of research.

## Objective of the Conference

The main objective of this International Conference is to bring together Senior and Young Researchers working in the area of Applied Material Sciences and Engineering to exchange new schemes and to discuss current challenging issues.

## Organising Committee

### Chief Patrons

**Mrs. E.Radha** Founder Chairman, Arunai International Research Foundation, Tiruvannamalai

### Conference Chairman

**Dr.Sudi Mungasi** Associate Professor, Department of Mathematics & Dean Faculty of Science and Technology, Sanata Dharma University Yogyakarta, Indonesia.

### Organising Secretaries

**Dr. Kasi Kamalakannan**, CEO, Arunai International Research Foundation, Tiruvannamalai.

**Dr. M. Seenivasan** Associate Professor, Department of Mathematics, Annamalai University

### Organising Committee Members

**Dr. Hartono**, Department of Mathematics, Faculty of Science and Technology, Sanata Dharma University, Yogyakarta, Indonesia

**Dr. Lusia Krismiyati Budiasih**, Department of Mathematics, Faculty of Science and Technology, Sanata Dharma University, Yogyakarta, Indonesia

**Dr. Natalia Diah Hapsari**, Department of Chemistry, Sanata Dharma University Yogyakarta, Indonesia.

**Dr. Muthu Manickem**, Department of Computer Science, Gondu Nadu Engineering College, Musiri.

**Dr. Subeena Begum**, Department of Animal Health & Management, Alagappa University, Karaikudi.

**Dr. V. J. Chakravarthy**, Principal, Arulmigu Kapaleeswarar Arts and Science College Kolathur, Chennai



## Keynote Speakers



**Dr. C. Sharmeela**  
Associate Professor  
Department of Electrical and  
Electronics Engineering  
Anna University



**Dr. Manoj Gupta**  
Professor  
Department of Mechanical Engineering,  
National University of Singapore, Singapore



**Dr. Ramesh L. Gardas**  
Professor  
Department of Chemistry  
IIT Madras



**Dr. Augustinus Bayu Primawan**  
Associate Professor  
Faculty of Science and Technology  
Sanata Dharma University, Indonesia



**Dr. Ajeet K. Kaushik**  
Assistant Professor  
Department of Chemistry Environmental Engineering  
Florida Polytechnic University



**Dr. S. Elango**  
Associate Professor  
Department of Electrical and Electronics Engineering  
Coimbatore Institute of Technology  
Coimbatore

## Guest Editors

### Dr. Manoj Gupta

Professor  
Department of Mechanical Engineering,  
National University of Singapore, Singapore

**Dr. H. Manikandan**  
Department of Chemistry  
Annamalai University  
Annamalainagar

**Dr. G. Rajarajan**  
Department of Chemistry  
Bharathiyar University  
Coimbatore

## Call for Papers

Original research papers are invited from academicians, research scholars and industrialists in the following areas (but not limited to):

Maths for scientists  
Classical mechanics  
Elementary mechanics  
Analytical mechanics  
Physics: Fluid mechanics  
Dynamics and statics  
Energy  
Low temperature physics  
Condensed matter physics (liquid state and solid state physics)  
Soft matter physics  
Thermodynamics and heat  
Laser physics  
Electricity, electromagnetism and magnetism  
Atomic and molecular physics  
Nuclear physics  
Particle and high-energy physics  
Quantum physics (quantum mechanics and quantum field theory)  
Statistical physics  
Mathematical physics  
Applied physics  
Medical physics  
Geophysics

Atmospheric physics  
Biophysics  
Chemical physics  
Analytical chemistry  
Chromatography  
Inorganic chemistry  
Organic chemistry  
Organometallic chemistry  
Polymer chemistry  
Physical chemistry  
Colloid chemistry  
Electrochemistry and magnetochemistry  
Nuclear chemistry, photochemistry and radiation  
Quantum and theoretical chemistry  
Solid state chemistry  
Thermochemistry and chemical thermodynamics  
Surface chemistry and adsorption  
Crystallography  
Chemistry of minerals, crystals and gems  
Sustainability  
Engineering: general  
Nanotechnology

## Conference Online Platform

The Conference will be held on Zoom platform and the link with meeting ID & Password will be communicated to the registered participants, via e-mail-[directorairf1@gmail.com](mailto:directorairf1@gmail.com).

E-Certificate will be given to all the registered participants.



### Submissions Guidelines

Authors willing to present their research work can Submit their full length Paper in LaTeX or Word format electronically (not more 8 pages) via e-mail to [directorairf1@gmail.com](mailto:directorairf1@gmail.com) on or before 5<sup>th</sup> Sep 2022.

### Paper Publication

Authors will be informed about the acceptance of their paper based on the recommendation of the review committee. The short listed research papers will be published in the Peer reviewed following Conference Series, subject to the fulfilment of all conditions and formalities. Publication Cost has per the journals.

### Important Dates

Last Date for Submission of full Paper : 5<sup>th</sup> Sep 2022

Notification of Acceptance : 5 days after Submission

Registration Deadline : 10<sup>th</sup> Sep 2022

Conference Date : 17/09/2022 & 18/09/2022

E-mail to which the paper should be sent : [directorairf1@gmail.com](mailto:directorairf1@gmail.com)

### Registration Fees

For Indian Students / Research Scholars: 500 INR

For International Students / Research Scholars : 20 USD

For Indian Academicians: 750 INR

For International Academicians : 30 USD

### Payment Mode

RTGS/NEFT/DD/Multicity check is to be made in favour of

Account Holder: Arunai International Research Foundation

Current A/C No: 35804937280

Bank: State Bank of India

Branch: 34, Kosa Mada Street, Tiruvannamalai – 606601

IFSC Code: SBIN0000938

Website : <http://arunai.in/ICAST-2022>

### Contact Us

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