



# Bharathidasan University

Tiruchirappalli - 620 024

(Accredited with A+ Grade by NAAC in the Third Cycle  
& 53<sup>rd</sup> Rank among the Indian Universities in NIRF-2020)

## Department of Physics

***Cordially Invite You To the***

**4<sup>th</sup> International Conference on Recent Trends  
in Applied Science and Technology ( ICRTAST -2020)**

### *Inauguration*

**Date: 26.12.2020**

**Time 09.30 AM**

#### **Invocation**

**Welcome Address**

**Dr. K. Jeganathan**

Convener

**Presidential Address**

**Prof. P. Manisankar**

Vice-Chancellor  
Bharathidasan University

**Inaugural address**

**Prof. M. Ponnaivaikko**

Former Vice-Chancellor  
Bharathidasan University

#### **Felicitation**

**Prof. P. Ramasamy**, President, IACG, Chennai

**Prof. R. Jayavel**, President, ISTA, Chennai

**Prof. G. Rajasekaran**, Former Director, IMSc, Chennai

**Prof. S. Sivasubramanian**, Former Vice-Chancellor,  
Bharathiar University, Coimbatore.

**Vote of Thanks**

**Dr. R. Ramesh Babu**

Convener, ICRTAST-2020

***Venue: Zoomplatform***

<https://us02web.zoom.us/j/83999575880?pwd=ZzFaWTNZYS9zY0x0OWFEY2hMQ10vZz09>

***In association with IACG, ISTA and Elavenil, Chennai***

**ICRTAST - 2020**

# 4<sup>rd</sup> International Conference on Recent Trends in Applied Science and Technology (Online) (ICRTAST-2020)

Bharathidasan University, Tiruchirappalli-620 024  
Tamil Nadu, INDIA.

**Join Zoom Link**

<https://us02web.zoom.us/j/83999575880?pwd=ZzFaWTNZYS9zY0x0OWFEY2hMQ1ovZz09>

பயனுறு அறிவியல் மற்றும் தொழில்நுட்பத்தின்  
அண்மைப் போக்கு  
குறித்த நான்காவது பன்னாட்டுக் கருத்தரங்கு (இணையவழி)

26-29, டிசம்பர் 2020

Day - 1 (26.12.2020)

Inauguration: 9.30 am to 11.00 am

Talk	Time	Speakers Name
Inaugural Function	9.30 am to 11.00 am	
Session I : Chair Person: Prof. R. Jayavel, Anna University, Chennai		
Plenary Lecture-PL1	11.00am to 11.45 am	<b>Prof. P. Ramasamy</b> Dean (Research), SSN Institutions, Rajiv Gandhi Salai (OMR), Kalavakkam - 603 110 <a href="mailto:ramasamyp@ssn.edu.in">ramasamyp@ssn.edu.in</a>
Plenary Lecture -PL2	11.45am to 12.30pm	<b>Prof. G. Rajasekaran</b> Former Director Institute of Mathematical Sciences, C I T Campus, Chennai 600113 <a href="mailto:graj@imsc.res.in">graj@imsc.res.in</a>
Plenary Lecture -PL3	12.30 pm to 1.15 pm	<b>Prof. S. Sivasubramanian</b> Former Vice-Chancellor Bharathiar University, Coimbatore <a href="mailto:profssn@hotmail.com">profssn@hotmail.com</a>

# 6<sup>th</sup> International Conference on Recent Trends in Applied Science and Technology (Deliberation in Tamil)

	ORAL PRESENTATIONS	
OP1	<b>An Investigation Of Silver Ionic Transport In The Mixed System (75pcl:25zn(Cf3so3)2+Fe2o3), For Electrochemical Device Applications – Electro Chromic Displays</b> A.C. Ganeshkumar	
OP2	<b>The fabrication and characterization of Copper doped Magnesium aluminate nanoparticles are done by Co-precipitation method</b> A Hancy Mourish	
OP3	<b>Graphene and its Derivatives coated NiTi Shape Memory Alloy for Dental Applications by Dip coating method</b> M. Muthumeenal, and M. Rajalakshmi	
OP4	<b>Green synthesis and characterization of zinc oxide nanoparticles using Water lettuce leaf extract</b> M.Kalaivani, S.Ravi	
OP5	<b>Synthesis and Analysis of Methylene blue doped Glycine Magnesium Chloride (GMC) Hybrid Crystal by means of DFT for Opto-Electronic implementations.</b> T. Kamatchi, P. Kumaresan	
OP6	<b>Kinetics and mechanism of oxidative decolorization of mono azo dye methyl orange by trichloroisocyanuric acid in aqueous acetic acid medium - a spectrophotometric approach</b> Karthikeyan, R and Manivannan, S	
OP7	<b>Design and identify the potential novel series of Primaquine derivatives</b> K.Kavitha, Krishnamoorthy.P, T.K.Arumugam	
OP8	<b>Investigations on the influence of <math>\alpha</math>- aminoacid on various bases for optical limiting applications</b> M. Madhangi, P. Murugakoothan	
OP9	<b>Synthesis, characterization and high dielectric properties of CaCu<sub>3</sub>Ti<sub>4</sub>O<sub>12</sub> ceramics</b> M. Chinnathambi, R. Robert	

**Lunch Break : 1.15 pm to 2.00 pm**

**Session II : Chair Person: Prof. P. Ramasamy, SSN Institutions**

Invited Lecture - IT1	2.00pm to 2.40pm	<b>Dr. D. Velmurugan</b> Professor, UGC-BSR Faculty Crystallography and Biophysics University of Madras, Guindy Campus, Chennai <a href="mailto:shirai2011@gmail.com">shirai2011@gmail.com</a>
Invited Lecture - IT2	2.40pm to 3.20pm	<b>Dr. N. Vijayan</b> Principal Scientist & Associate Professor (AcSIR) Indian Reference Materials (BND) Division CSIR-National Physical Laboratory New Delhi-110012. <a href="mailto:nvijayan@nplindia.org">nvijayan@nplindia.org</a> , <a href="mailto:vnjphy@yahoo.com">vnjphy@yahoo.com</a>
S-Invited Lecture - SIT1	3.20pm to 3.50pm	<b>Dr. G. Ramalingam</b> Assistant Professor, Department of Nanoscience and Technology Alagappa University Karaikudi - 630 003, <a href="mailto:ramanloyola@gmail.com">ramanloyola@gmail.com</a> <a href="mailto:alunanoram@gmail.com">alunanoram@gmail.com</a>
Invited Lecture - IT3	3.50pm to 4.30pm	<b>Dr. Varadharajan</b> New Jersey, USA

**Session III : Oral presentation - Parallel session**

Chair Person : <b>Dr. G. Ramalingam</b>	Chair Person : <b>Dr. O. Senthilkumar</b>	Chair Person : <b>Dr. M. Srinivasan</b>
4.30 pm to 5.30 pm Oral Presentation (OP-1 to OP-10)	4.30 pm to 5.30 pm Oral Presentation (OP-11 to OP-20)	4.30 pm to 5.30 pm Oral Presentation (OP-21 to OP-30)
<b>For Oral presentation only</b> <b>Join Zoom Link</b> <a href="https://us02web.zoom.us/j/83999575880?pwd=ZzFaWTNZYS9zY0x0QWFY2hMQ1ovZz09">https://us02web.zoom.us/j/83999575880?pwd=ZzFaWTNZYS9zY0x0QWFY2hMQ1ovZz09</a>	<b>For Oral presentation only</b> <b>Google meet Link1</b> <a href="https://meet.google.com/dfm-nsai-mse">https://meet.google.com/dfm-nsai-mse</a>	<b>For Oral presentation only</b> <b>Google meet Link2</b> <a href="https://meet.google.com/mou-mhpd-kiv">https://meet.google.com/mou-mhpd-kiv</a>

OP10	<b>Experimental and Theoretical investigation of novel organic non linear optical single crystal (Guanidium Hydrogen Glutarate - GHG) for NLO applications</b> E.Manjula, P.Murugakoothan, Suba Chandrasekar, Suruthi K	
OP11	<b>Synthesis and characterization OF licoo<sub>2</sub> cathode materials in rechargeable li-ion batteries</b> S. Mohamed Rafi, S. Gopinath, B. Ramya, Dr. P. Elangovan	
OP12	<b>Dielectric confinement on exciton binding energy in a strained Zn<sub>1-x</sub>Mg<sub>x</sub>Se/Zn<sub>1-x</sub>Mg<sub>x</sub> single quantum well</b> A. Muthuganesh, X. Helon Flora and Dr. P. Elangovan	
OP13	<b>Medicinal plants characteristics extract <i>Phyllanthus amarus</i> for the treatment of kidney and urinary stone</b> R. Selvaraju and M. Navaneetha	
OP14	<b>Development of Efficient Nano Photocatalyst for Waste Water Treatment</b> T. Kamatchi & P. Kumaresan	
OP15	<b>Growth, optical, thermal, and third-order nonlinear optical characterizations of 1,3-Diazole Glyoxalinium Methanedicarboxylate (DGM) single crystal</b> K. Elangova, Nirmala, and G. Vinitha	
OP16	<b>Green Synthesis of Transition Metal Oxide Nanoparticles</b> <u>Palani Karthik</u> , Paulraj Adwin Jose, Nagaraj Revathi, Siranjeevi Ravichandran, Jegathalaprathaban Rajesh, Murugesan Sankarganesh	
OP17	<b>Molecular geometry and spectroscopic investigation of [(2R,3R)-5,7-Dihydroxy-2-(3,4,5-Trihydroxyphenyl) chroma-3-YL] 3,4,5-Trihydroxybenzoate using Quantum Computational (DFT) and Experimental methods</b> R. Selvaraju and I V Priadharshini	
OP18	<b>Anti-oncogenic activity of aqueous extract of <i>brassica oleracea</i> in gastric adenocarcinoma ags cell line</b> K. Raja and R.Saravanan	
OP19	<b>The role of ND<sup>3+</sup> substitution in modification of the structural, morphological, optomagnetic, and dielectric properties of the mg-co-cu nano ferrites</b> N. Sundaramurthy, S. Rajalakshmi	
OP20	<b>Synthesis of bismuth included copper titanate nanostructuredoxides for thermoelectric applications</b> V. Selvakumar, M. Arivanandhan, P.S. Ramesh , P. Anandan	
OP21	<b>Computation and Interpretation of Vibrational spectra of 3-(2-(Piperidin-1-yl) Acetamido) Benzofuran-2-Carboxamide using Density Functional method</b> T. Ramya	
OP22	<b>Graphene oxide reduced from graphite with <i>transvaal daisy</i> plant by green synthesis method</b>	

## Day - 2 (27.12.2020)

Talk	Time	Speakers Name
<b>Session IV: Chair Person: Dr. C. Sekar</b>		
Plenary Lecture-PL4	9.30 am to 10.15 am	<b>Thiru. N. Rajasekaran</b> Hon. Secretary, Indian Welding Society <a href="mailto:nrajas@bhel.in">nrajas@bhel.in</a>
<b>Session V: Chair Person: Dr. R. Navamadhavan</b>		
Invited Lecture - IT4	10.15 am to 10.55am	<b>Dr. C. Sekar</b> Professor Department of Bioelectronics & Biosensors Alagappa University Karaikudi - 630 003 <a href="mailto:sekar2025@gmail.com">sekar2025@gmail.com</a>
Invited Lecture - IT5	10.55am to 11.35am	<b>Dr. K. Srinivasan</b> Professor and Head Department of Physics, Bharathiar University E-mail: <a href="mailto:nivas_5@yahoo.com">nivas_5@yahoo.com</a>
Invited Lecture - IT6	11.35am-12.15 pm	<b>Dr. G. Velraj</b> Associate professor, Department of Physics College of Engineering Guindy, Anna University, Chennai <a href="mailto:gvelraj@annauniv.edu">gvelraj@annauniv.edu</a>
S-Invited Lecture - SIT2	12.15pm to 12.45pm	<b>Dr. J. Kalyana Sundar</b> Assistant Professor Department of Physics, Periyar University, Salem <a href="mailto:jksundar@periyaruniversity.ac.in">jksundar@periyaruniversity.ac.in</a>
S-Invited Lecture - SIT3	12.45pm to 1.15pm	<b>Dr. O. Senthilkumar</b> Associate Professor, Chemistry Ramco Institute of Technology North Venganallur Village, Rajapalayam - 626 117, Virudhunagar District, Tamil Nadu <a href="mailto:nadusenthilkumar@ritrjpm.ac.in">nadusenthilkumar@ritrjpm.ac.in</a>
<b>Lunch Break : 1.15 pm to 2.00pm</b>		

	R. Selvaraju and S D Ravi Sharma	
OP23	<b>The promising future of wonder seeds chia (<i>Salvia hispanical.</i>) - an overview.</b> A. Saffiya Banu, Sivapriya, Mathan Periasamy	
OP24	<b>Characterization of phytochemicals derived from <i>cissus rotundifolia</i> using dft and determining the protein-ligand interaction</b> Sangeetha.Mohan, Sruthi, Radhakrishnan Narayanaswamy	
OP25	<b>LC-MS analysis of <i>solanum torvum</i> leaf extract and in-silico predictions of identified phytochemicals interaction</b> With egfr target protein R. Saravanan	
OP26	<b>Facile synthesis of organic dye degradation for <math>WO_3/g-C_3N_4</math> Heterojunction Nanocomposite</b> Velusamy Sasikala, Azhagurajan Mukkannan, P.Karthik R. Siranjeevi, J. Rajesh	
OP27	<b>Comparative study of ONA, PNA and PBA using Density functional techniques</b> T. Gnanasambandan, S. Seshadri, C. Srinivasan	
OP28	<b>Isolation and characterization of bioactive molecules by GC -MS from ethanolic extracts of <i>Ioligo vulgaris</i></b> R.shanmugapriya and R.saravanan	
OP29	ஹெக்ஸாமைன் எல் - டார்ட்ரேட் (HMLT) படிக்கத்தின் வளர்ச்சி, நிறமாலை மற்றும் ஒளியியல் பண்புகளின் பகுப்பாய்வு ரா.சிவரஞ்ஜனி, த.அருமநாயகம்*	
OP30	<b>Growth and spectral studies on nickel doped struvite Crystals</b> R. Selvaraju and A. Sivasakthi	
OP31	<b>The doctrine of signature identification in mimosa pudica to treat corona infection and pancreatic cancer</b> K. Srinivasan	
OP32	<b>Suitability of an organic single crystal Guanidinium Benzoate (GuB) for NLO device applications: A Theoretical and Experimental Approach</b> Suba Chandrasekar, P. Murugakoothan E. Manjula, Nandhini M	
OP33	<b>Structural and morphology study of Europium doped Gadolinium Oxide nanorods</b> E. Thanikaivelan, S. Gokul Raj, P.Murugakoothan	
OP34	கரிம என்.எல்.ஓ படிக்கத்தின் வளர்ச்சி, நிறமாலை, நேரியல் மற்றும் நேரியல் அல்லாத ஒளியியல் செயல்திறன் பகுப்பாய்வு: எல் -ஐசோலூசின் 4 நைட்ரோபினோலேட் (LINP) எஸ்.வைஷ்ணவி, த.அருமநாயகம்	

**Session VI : Chair Person : Dr. G. Velraj, Anna University, Chennai**

Invited Lecture - IT7	2.00pm to 2.40pm	<b>Dr. S. Moorthy Babu</b> Professor & Director Crystal Growth Centre, Anna University Chennai - 600 025 babu@annauniv.edu, <a href="mailto:babusm@yahoo.com">babusm@yahoo.com</a>
Invited Lecture - IT8	2.40pm to 3.20pm	<b>Dr. R. Navamadhavan</b> Associate Professor Division of Physics. School of Advanced Sciences. VIT Chennai <a href="mailto:navamathavan.r@vit.ac.in">navamathavan.r@vit.ac.in</a>
S-Invited Lecture - SIT4	3.20pm to 3.50pm	<b>Dr. K. Sethuraman</b> Associate Professor, Department of Materials Science Central University of Tamil Nadu Thiruvarur-610 005 <a href="mailto:sethuramn_33@yahoo.com">sethuramn_33@yahoo.com</a> <a href="mailto:ksethuraman@cutn.ac.in">ksethuraman@cutn.ac.in</a>
S-Invited Lecture - SIT5	3.50pm to 4.20pm	<b>Dr. T. C. Sabari Girisun</b> Assistant Professor Department of Physics Bharathidasan University Tiruchirappalli-620 024. <a href="mailto:sabarigirisun@bdu.ac.in">sabarigirisun@bdu.ac.in</a>

**Session VII : Oral presentation - Parallel session**

<b>Chair Person : Dr. T. C. Sabari Girisun</b>	<b>Chair Person : Dr. K. Sethuraman</b>	<b>Chair Person : Dr. J. Kalyana Sundar</b>
4.20 pm to 5.30 pm Oral Presentation (OP-31 to OP-40)	4.20 pm to 5.30 pm Oral Presentation (OP-41 to OP-50)	4.20 pm to 5.30 pm Oral Presentation (OP-51 to OP-60)
For Oral presentation only Join Zoom Link <a href="https://us02web.zoom.us/j/83999575880?pwd=ZzFaWTNZYS9zY0x0OWFEY2hMQ1ovZz09">https://us02web.zoom.us/j/83999575880?pwd=ZzFaWTNZYS9zY0x0OWFEY2hMQ1ovZz09</a>	For Oral presentation only Google meet Link1 <a href="https://meet.google.com/dfm-nsai-mse">https://meet.google.com/dfm-nsai-mse</a>	For Oral presentation only Google meet Link2 <a href="https://meet.google.com/mou-mhpd-kiv">https://meet.google.com/mou-mhpd-kiv</a>



OP35	மேம்படுத்தப்பட்ட கட்டமைப்பு, ஒளியியல் பண்புகள், காந்த பண்புகள் மற்றும் பாக்டீரியா எதிர்ப்பு பகுப்பாய்வுக்கான ஹேமடைட் நானோ துகள்களில் நிக்கல் மாதூட்டலின் விளைவு கோ.விருத்தகிரி, ராஜபாண்டி.ப	
OP36	<b>FTIR studies in formulated feed to analyse biochemical constituents for cultivable Indian major carp CATLA</b> <b>CATLA</b> D. Yogalakshmi and R. Saravanan	
OP37	<b>Phytogenic nano-CeO<sub>2</sub> and Zn doped CeO<sub>2</sub> by Phytocompounds in <i>Cassia angustifolia</i> seed to stimulate the phenotypic response in the growth of <i>Abelmoschus esculentus</i> on Nanoprimering</b> A. Dhivya, Rakhi Yadav	
OP38	<b>Theoretical Calculation of the Molecular Properties of Substituted Pyrazole Derivatives in the Solid Phase</b> S. Geetha & S. Lakshmi	
OP39	<b>Structural characterizations and Quantum chemical investigations on</b> <b>2-(2-Methyl-5-nitro-1H-imidazol-1-yl) ethanol</b> Karl Chinnu, A.Sekar, T.Ravishankar and J.Balaji	
OP40	அதிர்வெடி அலைகள் ஏற்றுதல் நுட்பம் மூலம் பாரா - நைட்ரோ அனிலின் ஒற்றை படிக்கத்தின் ஒளி ஊடுருவும் தன்மையின் மேம்பாடு எம்.தீபா, எஸ்.ஏ.மார்ட்டின் பிரிட்டோ தாஸ்	
OP41	<b>Structural and electrochemical properties of LiNi<sub>0.5</sub>Mn<sub>1.5</sub>O<sub>4</sub> nanoparticles synthesized by Co-precipitation method.</b> Deva P, S. Ravi and S. Velmurugan	
OP42	<b>Crystal Growth, Structural, Characterization of 4-Hydroxybenzoic acid-1H-imidazole Organic Crystal for Nonlinear Optical Applications</b> C. Elavarasi & S. Mugundan	
OP43	<b>Hydrophobic interaction between carbohydrates and amino acids in glycoproteins – a database analysis</b> T.Hema Thanka Christlet, P.R.Kanimozhi and M. Karl Chinnu	
OP44	<b>Study of Bismuth Selenide under dynamic shock waves loaded condition</b> F. Irine Maria Bincy, S.A.Martin Britto Dhas	
OP45	<b>Purification of recombinant PankIII protein from <i>Helicobacter pylori</i> bacterium</b> Jai Prakash Dharikar, Mani N, and Gunasekaran K	
OP46	<b>Computational molecular structure analysis, electronic properties of sudan dye doped thiourea barium chloride crystals for NLO applications</b> S. Panimalar, T. Kamatchi & P. Kumaresan	

## Day - 3 (28.12.2020)

Talk	Time	Speakers name
<b>Session VIII : Chair Person: Dr. Gopalakrishnan, NIT, Trichy</b>		
Plenary Lecture-PL5	9.30 am to 10.15am	<b>Dr. J. Kumar</b> Emeritus Professor Crystal Growth Centre Anna University Chennai - 25 <a href="mailto:marsjk@gmail.com">marsjk@gmail.com</a>
<b>Session IX : Chair Person : Dr. M. Arivanandhan, Anna University, Chennai</b>		
Invited Lecture - IT9	10.15am to 10.55am	<b>Dr. K. Gunasekaran</b> Assistant Professor Centre of Advanced Study in Crystallography and Biophysics University of Madras Guindy Campus, Chennai - 600 025 <a href="mailto:gunabiophy@unom.ac.in">gunabiophy@unom.ac.in</a> , <a href="mailto:gunaunom@gmail.com">gunaunom@gmail.com</a>
Invited Lecture - IT10	10.55am to 11.35am	<b>Dr. Rita John</b> Professor and Head Department of Theoretical Physics, University of Madras, Guindy Campus, Chennai - 25. <a href="mailto:ritajohn.r@gmail.com">ritajohn.r@gmail.com</a>
Invited Lecture - IT11	11.35 am to 12.15pm	<b>Dr. A. Thamizhavel</b> Department of Condensed Matter Physics and Materials Science, Tata Institute of Fundamental Research, Mumbai 400 005. <a href="mailto:thamizh@tifr.res.in">thamizh@tifr.res.in</a>
S-Invited Lecture-SIT6	12.15pm to 12.45pm	<b>Dr. R. Sivakumar</b> Assistant Professor, Department of Physics Alagappa University, Karaikudi - 630 003 <a href="mailto:krsivakumar1979@yahoo.com">krsivakumar1979@yahoo.com</a>
S-Invited Lecture -SIT7	12.45 pm to 1.15 pm	<b>Dr. R. Robert</b> Assistant Professor Department of Physics Government Arts College for Men, Krishnagiri, Tamil Nadu 635001 <a href="mailto:roberthosur@yahoo.co.in">roberthosur@yahoo.co.in</a>
<b>Lunch Break</b>		<b>1.15pm to 2.00pm</b>

OP47	<b>Thermal &amp; dielectric studies on dyes doped LLs crystals for nonlinear optical applications</b> S. Pachiappan & P. Kumaresan	
OP48	<b>Preparation of nano fertilizer for increasing the phosphorus content and pest control to the rice plants (Oryza sativa)</b> S. Murugan, Arivanandhan M, Jayavel R	
OP49	<b>Influence of Cu/Mn on the characterization of CdS thin films grown by spray pyrolysis method</b> R. Murugesan, M. Haris, P. Anandan	
OP50	<b>Preparation of polymer based nanocomposite membrane embedded with Chrysopogan zizanioides for wastewater treatment</b> R.C. Aashikaa, M.Pavithraa, Sruthi Ann Alexa, M. Arivanandhan, R. Jayavel	
	<b>POSTERS PRESENTATIONS</b>	
PP1	ஈயமில்லா நச்சற்ற வெள்ளிய தீநாற பெரோவசுகைட்டின் நிலையறுதியின் பகுப்பாய்வு ஆரோக்கிய ஆலிவர் ராஜா த, மெர்லின் சைலா ஜோ மற்றும், புகழேந்தி க	
PP2	<b>Optimized Formulation Of Conductive INK specially prepared for flexible substrate based printed circuit boards</b> S Preethi Sudha, K Govardhan	
PP3	<b>Adsorption Studies on Removal of Chromium from Industrial Wastewater Using Powdered Eggshell</b> G.Keerthana, S. Gayathri and T.S. Renuga Devi	
PP4	<b>Thenmozhi "Hall effect"</b>	
PP5	<b>Synthesis And Characterization OF Sn<sub>x</sub>S<sub>1-x</sub> nano particles</b> K. Aravindhan, S. Karthick Raja, M. Aysha, Dr. P. Elangovan	
PP6	<b>Surface Morphology and Electrical Properties Of Nano-Crystalline LiFePO<sub>4</sub>/C Cathode Materials</b> T.K.S. Dhaarane, R. Rupesh Mohan, Dr. K. Ponnarasi, Dr. P. Elangovan	
PP7	<b>Structural and Optical Properties of Gadolinium doped Yttrium oxide Nanoparticles prepared by co-precipitation method</b> P. Anandan, P. Shanmugha Sundaram and P.S. Ramesh	
PP8	<b>A novel synthesis of Cu<sub>2</sub>P<sub>2</sub>O<sub>7</sub> composite g-C<sub>3</sub>N<sub>4</sub> as an efficient visible-light responsive Z-scheme photocatalyst for the enhanced degradation of crystal violet</b> R Aswini, A Padmanaban, S Vigneshwaran, Hector Valdes and S Arunachalam	
PP9	<b>Decomposition of H<sub>2</sub>O<sub>2</sub> over nanoporous Au-Pd-Ag alloy catalyst: Effect on Temperature</b> G. NirmalaDevi, G. Suresh, R. N. Viswanath	

<b>Session X : Chair Person : Dr. A. Thamizhavel, TIFR, Mumbai</b>		
Invited Lecture – IT12	2.00pm to 2.40pm	<b>Dr. M. Arivanandhan</b> Associate Professor Centre for Nanoscience and Technology, Anna University, Chennai - 600 025, E-mail: arivucz@gmail.com, <a href="mailto:marivucz@annauniv.edu">marivucz@annauniv.edu</a>
Invited Lecture – IT13	2.40pm to 3.20pm	<b>Dr. S. Brahadeeswaran</b> Professor and Head Department of Physics UCE- Tiruchirappalli (BIT Campus) Anna University Chennai <a href="mailto:sbrag67@yahoo.com">sbrag67@yahoo.com</a>
S-Invited Lecture–SIT8	3.20pm to 3.50pm	<b>Dr. R. Arun Kumar</b> Assistant Professor, NIT, Andhra Pradesh <a href="mailto:arunkumar@nitandhra.ac.in">arunkumar@nitandhra.ac.in</a>
S-Invited Lecture– SIT9	3.50 pm to 4.20pm	<b>M. Karl Chinnu</b> Department of Physics, Dr. Ambedkar Government Arts College, University of Madras, Chennai- 600039, <a href="mailto:chinnu0202@gmail.com">chinnu0202@gmail.com</a>

### Session XI : Oral presentation – Parallel session

Chair Person : <b>Dr. Dr. R. Sivakumar</b>	Chair Person : <b>Dr. R. Arunkumar</b>	Chair Person : <b>Dr. M. Senthil Pandian</b>
4.30 pm to 5.30 pm Oral Presentation (OP-61 to OP-71)	4.20 pm to 5.30 pm Oral Presentation (OP-72 to OP-83)	4.20 pm to 5.30 pm Oral Presentation (OP-84 to OP-96)
<b>For Oral presentation only</b>	<b>For Oral presentation only</b>	<b>For Oral presentation only</b>
<b>Join Zoom Link</b> <a href="https://us02web.zoom.us/j/83999575880?pwd=ZzFaWTNZYS9zY0x0QWFEY2hMQ1ovZz09">https://us02web.zoom.us/j/83999575880?pwd=ZzFaWTNZYS9zY0x0QWFEY2hMQ1ovZz09</a>	<b>Google meet Link1</b> <a href="https://meet.google.com/dfm-nsai-mse">https://meet.google.com/dfm-nsai-mse</a>	<b>Google meet Link2</b> <a href="https://meet.google.com/mou-mhpd-kiv">https://meet.google.com/mou-mhpd-kiv</a>

PP10	<b>Evolving The Complexities Of Glycine Magnesium Chloride (GMC) Crystal Through DFT Computation For NLO utilizations</b> T Kamatchi, G Suresh & P Kumaresan	
PP11	<b>Photocatalytic degradation of organic pollutant TC over CuS/CdS in different solvents under dark and light condition</b> E. V. Siddhardhan, T. Arumanayagam	
PP12	<b>Growth And Characterization Of Boric Acid Doped L-Alanine Nonlinear Optical Single Crystals For Photonic Applications</b> A. Dilli Rani, C. Rathika Thaya Kumari, M. Nageshwari, P. Sangeetha, G. Vinitha, M. Lydia Caroline, S. Kumaresan	
PP13	<b>Physico-chemical parameters by industrial area water in quality assessment analysis</b> R. Selvaraju and V. Mahalakshmi	
PP14	<b>swethambari</b>	
PP15	<b>Solar Greenhouse Dryer</b> Dinisha, Durgalakshmi, Hannah Ruben	
PP16	<b>Investigation of the structural behavior of Bismuth Sulfide under shocked conditions.</b> S. Oviya, S. A. Martin Britto Dhas	
PP17	<b>Enhanced photocatalytic performance of Gadolinium doped Ceria under visible light</b> R. Pradeep Kumar, P. Pandi, S. Karthikeyan and M. Karl Chinnu	
PP18	<b>Biodegradable Mask with Bioactive layer</b> Priyanka J, K. Govardhan	
PP19	<b>Biophysical analysis of a Mannose-binding lectin from <i>crinum asiaticum</i> with a single domain and three carbohydrate binding sites.</b> Jai Prakash, Shaik Abdul Azeed A, Prithivi Raj I, Nandhagopal N, Gunasekaran K	
PP20	<b>Preparation of CeO<sub>2</sub>/nanocellulose nanocomposite for photocatalytic degradation of industrial wastewater</b> K. Sumi, M. Arivanandhan, R. Jayavel	
PP21	<b>Green Synthesis of silver nano crystals using Muraya Koenigii leaf extract and its characterization</b> K. Velvizhi, Dr. P. Shanmugha Sundaram <sup>a</sup> , S. Ravi	
PP22	<b>The influence of Lanthanum Dopant on L-Alanine Tartarate Single Crystals</b> Silviya M, Robert R	

## Day - 4 (29.12.2020)

Talk	Time	Speakers name
<b>Session XII : Chair Person: Dr. S. Brahadeeswaran, BIT-Trichy, Anna Univ.</b>		
Plenary Lecture-PL6	9.30 am to 10.15am	<b>Prof. V. Masilamani</b> Research chair in laser diagnosis of cancers King Saud University, Riyadh, KSA Masila's Research Center, Thiruppangili, 621005, India. masila123@gmail.com <a href="mailto:marsjk@annauniv.edu">marsjk@annauniv.edu</a>
<b>Session XIII : Chair Person : Dr. R. Jayavel, Anna University, Chennai</b>		
Invited Lecture - IT14	10.15am to 10.55 am	<b>Dr. G. Ravi</b> Professor & Head Department of Physics, Alagappa University Karaikudi - 630 003, Tamil Nadu, <a href="mailto:raviganesa@rediffmail.com">raviganesa@rediffmail.com</a> , <a href="mailto:gravicrc@gmail.com">gravicrc@gmail.com</a>
Invited Lecture - IT15	10.55am to 11.35am	<b>Dr. S. Karuppuchamy</b> Professor and Head Department of Energy Science Alagappa University Karaikudi - 630 003 Tamil Nadu, INDIA <a href="mailto:skchamy@gmail.com">skchamy@gmail.com</a>
Invited Lecture - IT16	11.35am to 12.15 pm	<b>Dr. S. Balakumar</b> Professor and Director National Centre for Nanoscience and Nanotechnology University of Madras (Guindy) Campus Chennai-600025 <a href="mailto:balakumar@unom.ac.in">balakumar@unom.ac.in</a> <a href="mailto:balasuga@yahoo.com">balasuga@yahoo.com</a>
S-Invited Lecture-SIT10	12.15pm to 12.45 pm	<b>Dr. Senthilkumar Chandran</b> Department of Physics, Government Arts College, Hosur, Tamil Nadu- 635109 <a href="mailto:senthilkumarchandran89@gmail.com">senthilkumarchandran89@gmail.com</a>
S-Invited Lecture-SIT11	12.45pm to 1.15 pm	<b>Dr. D. Joseph Daniel</b> Department of Physics, Kyungpook National University, Daegu 41566, South Korea <a href="mailto:josephphy@gmail.com">josephphy@gmail.com</a>

PP23	<b>Growth and characterizations of cobalt (II) chloride doped L-histidine hydrochloride monohydrate single crystals for optical applications</b> Sweatha L, Robert R	
PP24	<b>Identification of a novel inhibitor for New Delhi metallo-<math>\beta</math>-lactamase 1 (NDM-1) to combat multi drug resistance bacteria using in-silico approaches</b> Anantha Krishnan Dhanabalan, Selvakumar Rajendren and Gunasekaran Krishnasamy	

**Lunch Break      1.15pm to 2.00pm**

**Session XIV : Chair Person: Dr. M. Srinivasan, SSN Institutions**

Invited Lecture - IT-17	2.00pm to 2.40pm	<b>Dr. K. Sankaranarayanan</b> Professor, Department of Physics Alagappa University, Karaikudi - 630 003 Tamil Nadu, <a href="mailto:hhsankar@yahoo.com">hhsankar@yahoo.com</a>
S-Invited Lecture-SIT12	2.40 pm to 3.00 pm	<b>Dr. Muthu Senthil Pandian</b> Research Scientist Email: <a href="mailto:senthilpandianm@ssn.edu.in">senthilpandianm@ssn.edu.in</a> SSN Institutions Rajiv Gandhi Salai (OMR) Kalavakkam - 603 110

**Session XV:**

**3.00 pm 04.00 pm Prof. V. C. Kulandaiswamy Award - Group Discussion**

**VALEDICTORY (04.00 pm to 05.00 pm)**