List of Abstract: First International Conference on Sustainable Technologies, ICST-2024, December 12-15, 2024. ICST 2024 will be hosted in Physical Mode: 12-14th December, Virtual-mode: 15th December Venue: National Institute of Technology-Durgapur, West Bengal 713209

ABSTRACT NO.	Email	Title	Name	Organization	Abstract Title	Mode of Attending	Themes	Desired Mode of
VIRTUAL				Tec	hnical Track I : Energy Conversion and Storage			
1	Big2497653@gmail.com	Mr.	Jian-Xiang ling	Energy Conversion and Storage	Synthesis and electrical analysis of silver sulfide	Online	Energy Conversion and Storage	Oral
2	banerjeeindia.10@gmail.com	Mr.	MUKUL BANERJEE	National Institute of Technology, Mizoram		Online	Energy Conversion and Storage	Oral
3	a0966532962@gmail.com	Mr.	Chen-Xian-Qi	National Changhua University of Education	Self-powered n-Ag2Se/p-Si heterojunction photodetector	Online	Energy Conversion and Storage	Oral
4	anshikha.nautiyal@gmail.com	Ms.	Anshikha Nautiyal	Amity university	Zinc oxide-based Nanomaterial for Sustainable Energy Applications	Online	Energy Conversion and Storage	Oral
5	rc.20me1107@phd.nitdgp.ac.in	Mr.	Ramit Choudhury	NIT Durgapur	Comparative study of simple and Semi Frustrum Type Solar Air Heater based on Thermo-	Online	Energy Conversion and Storage	Oral
6	piyali.chatterjee@uj.edu.pl	Dr.	Piyali Chatterjee	Jagiellonian University	Enhanced visible-light photoelectrochemical activity of anodized WO3 by hydrothermal	Online	Energy Conversion and Storage	Oral
7	simran50016@gmail.com	Ms	Simran kaur	lovely professional university	Advance Synthesis Techniques of spinel ferrites: A detail review of their structural,	Online	Energy Conversion and Storage	Oral
8	atul206@gmail.com	Mr.	Atul Kumar	Amity University	A Review of the Estimation of State of Charge and Remaining Useful Life of Lithium-Ion	Online	Energy Conversion and Storage	Oral
9	kashyap2003mansi@gmail.com	Ms	Mansi Kashyap	Amity University	Simulation of Nickel oxide	Online	Energy Conversion and Storage	Oral
10	rajpathak775@gmail.com	Mr.	Pathak Rajkumar Babunar	Indian Institute of Technology	Upcycling LDPE Plastic into Porous Sulfurized Carbon Anodes for High-Performance	Online	Energy Conversion and Storage	Oral
11	sachchidanand.a@srmap.edu.in	Dr.	Sachchidanand	SRM University AP	SCAPS-1D simulation on Charge Transport/ Absorber Interface of Lead-free Perovskite	Online	Energy Conversion and Storage	Oral
12	sourav.saha36@gmail.com	Mr.	Sourav Saha	National Institute of Technology, Mizoram	Current Approaches for Solar Cooling PV Modules & its Assessment Systems: An	Online	Energy Conversion and Storage	Oral
13	Wang04135629@gmail.com	Mr.	Chi-Chao Wang	National Changhua University of Education	Photoelectric properties of P-CuI/N-Si heterjunction	Online	Energy Conversion and Storage	Oral
14	amitmondal009@gmail.com	Dr.	AMIT MONDAL	BIDHAN CHANDRA COLLEGE	Effect of Joule heating on rotating electro-osmotic flow in a sinusoidally varying micro-	Online	Energy Conversion and Storage	Oral
15	anshikha.nautiyal@gmail.com	Ms.	Anshikha Nautiyal	Amity university Greater Noida	Recent advances in efficiency enhancement of solar cells through zinc oxide nanomaterials	Online	Energy Conversion and Storage	Oral
16	sunee.world@gmail.com	Mr.		C ROY ENGINEERING COLLEGE, DURG	Performance Analysis of A DC Microgrid with Different Storage Management Schemes	Online	Energy Conversion and Storage	Oral
17	ayan@gkciet.ac.in	Mr.	Ayan Banik	GKCIET	study and Optimal Sizing of a PV Microgrid for an Institute Campus with Demand Response	Online	Energy Conversion and Storage	Oral
					nical Track II : Solid State Devices and Materials			
18	sowmyakb@rvce.edu.in	Dr.	Sowmya K B	RV College of Engineering, Bengaluru	Resourceful Shallow Clock Tree Synthesis with Lightweight Optimization Methods	Online	Solid State Devices and Materials	Oral
19	ajay@bccollegeasansol.ac.in	Dr.	AJAY KUMAR SHARMA	Bidhan Chandra College, Asansol	Thermal and Electronic Properties of AgInX2 (X=S,Se,Te) Ternary Chalcopyrites: A First-	Online	Solid State Devices and Materials	Oral
20	94rahulmandal@gmail.com	Mr.	Rahul Mandal	The University of Burdwan	Structural and Mechanical Studies on Cubic Zirconium Oxide (c-ZrO2) by DFT+GGA	Online	Solid State Devices and Materials	Oral
21	dt232c001@nitmz.ac.in	Ms	Sneha Singh	National Institute of Technology Mizoram	Exploration of Underlap with High-K Spacers in GS GAAFET for Enriched DC	Online	Solid State Devices and Materials	Oral
22	bhattacharya.ipshita153@gmail.com	Ms.	Ipshita Bhattacharjee	Jadavpur University	Electrochemical Detection of Cinnamic Acid in Green Tea using Graphite Paste Electrode	Online	Solid State Devices and Materials	Oral
23	write2joymukherjee@gmail.com	Dr	Joy Mukherjee	IIT Kanpur	Yellow to deep red sub-emissive band formation on optically porous nano-structured	Online	Solid State Devices and Materials	Oral
24	sowmyakb@rvce.edu.in	Dr.	Sowmya K B	RV College of Engineering	Layered Verification Environment for Cache Controller using Transaction-Level Modeling	Online	Solid State Devices and Materials	Oral
25	apurbasarkar954@gmail.com	Mr.	APURBA SARKAR	Kazi Nazrul University	Comprehensive Analysis of CuAlO2 Synthesized via Ball-Milling: Structural and Optical	Online	Solid State Devices and Materials	Oral
26	subhashis.samanta@makautwb.ac.in	Dr.	Subhashis Samanta	Maulana Abul Kalam Azad University of	Detection of Latent Fingerprints on Various Surfaces Using ZnO	Online	Solid State Devices and Materials	Oral
27	surajitchem11@gmail.com	Dr.	Surajit Saha	Bidhan Chandra College	A Brief Review on The Impact of Gaussian White Noise on the Oscillator Strength of	Online	Solid State Devices and Materials	Oral
28	sowmyakb@rvce.edu.in	Dr.	Sowmya K B	RV College of Engineering, Bengaluru	Analysis of Dot product using Floating point system and Posit Dot Product Unit	Online	Solid State Devices and Materials	Oral
29	singhs150898@gmail.com	Ms	Sneha Singh	National Institute of technology Mizoram	Impact on DC and Analog/RF Performance of Gate Underlap Induced High-K Spacer with	Online	Solid State Devices and Materials	Oral
30	sowmyakb@rvce.edu.in	Dr.	Sowmya K B	RV College of Engineering, Bengaluru	SPI Communication System with Integrated Clock Gating in SystemVerilog	Online	Solid State devices and Materials	Oral
31	sowmyakb@rvce.edu.in	Dr.	Sowmya K B	RV College of Engineering	Dual port RAM Verification with Multiplier Functionality using SystemVerilog	Online	Solid State Devices and Materials	Oral
32	sm7361@srmist.edu.in	Mr	Saptarshi Mukherjee	Kazi Nazrul University	Synthesis, characterization of Calcium Copper Titanate by modified solid state process: An		Solid State Devices and Materials	Oral
33	abhishek.ece.phd@nitmz.ac.in	Mr.	Abhishek Saha	NIT,Mizoram	Development of Dielectrically Influenced TG-FinFET for Biosensing applications	Online	Solid State Devices and Materials	Oral
34	jrmohanty2007@gmail.com	Mr.	Jyoti Ranjan Mohanty	V PUBLIC SCHOOL, CHANDRASEKHAR	mation of self-organized nanostructures on semi-insulating InP by 100 keV Ar+-ion irradia	Online	Solid State Devices and Materials	Oral
				Techr	nical Track III: Quantum Science and Technology			
35	sanchariguha1996@gmail.com	Ms.	Sanchari Guha	Kyoto Institute of Technology	Quantum Computing: Current scenario and Future prospect	Online	Quantum Science and Technology	Oral
36	laxmansur21@gmail.com	Dr.	Suranjan Lakshan	ihar Institute of Technology, Maranga, Purnea	Implementation of Octal phase shift Keying (OPSK) using Electro-Optic Modulator (EOM)	Online	Quantum Science and Technology	Oral
				Technic	al Track IV: Data Science, Machine learning and AI			
37	priyanka2552singh@gmail.com	Mrs.	Priyanka Singh	Lovely Professional University	Academic Engagement Scale for University Students: Development and Validation in the	Online	Data Science, Machine learning and AI	Oral
38	rupanpaul9@gmail.com	Mr.	RUPAN PAUL	DEPT. OF COMPUTER SCIENCE &	Low-light Object Detection with Image Enhancement using Deep Learning	Online	Data Science, Machine learning and AI	Oral
39	labonisarkar.sona@gmail.com	Mrs.	Laboni Sarkar	Swami Vivekananda University	Machine Learning for Anomaly Detection: A Review	Online	Data Science, Machine Learning and AI	Oral
40	labonisarkar.sona@gmail.com	Mrs	Laboni Sarkar	Swami Vivekananda University	Intrusion detection system: A comprehensive review	Online	Data Science, Machine Learning and AI	Oral
41	sarder.amitava@gmail.com	Mr.	AMITAVA SARDER	SWAMI VIVEKANANDA UNIVERSITY	Spam Detection using a Naïve Bayes Classifier in the context of Social Media Big Data	Online	Data Science, Machine learning and AI	Oral
42	sarder.amitava@gmail.com	Mr.	Amitava Sarder	Swami Vivekananda University	Spam Detection on Social Media Text	Online	Data Science, Machine learning and AI	Oral
43	vasumathibaskar@gmail.com	Dr.	B.Vasumathi	University	Optimizing Prompt Engineering for Voice-Activated AI Systems	Online	Data Science, Machine learning and AI	Oral
44	bhuvan27112003@gmail.com	Mr	BHUVAN ATUL SAVANT	Department of Information Science and	Advanced Machine Learning Algorithms for Resolving Human-Animal Conflict in Hybrid	Online	Data Science, Machine learning and AI	Oral
45	utpalmajee2012@gmail.com	Mr.	Utpal Majee	Bidhan Chandra College, Asansol	A new efficient to approach to solve Multi Objective Transportation Problem	Online	Data Science, Machine learning and AI	Oral
46	kb.19ce1502@phd.nitdgp.ac.in	Mr.	Koyndrik Bhattacharjee	National Institute of Technology, Durgapur	Enhancing Pipeline Safety with Real Time Leak Detection via One Class SVM and	Online	Data Science, Machine learning and AI	Oral
47	rkarmakar@cs.buruniv.ac.in	Dr.	Rahul Karmakar	The University of Burdwan	A Prototype Modeling of a Smart Agriculture Monitoring System using IOT Based Drones		Data Science, Machine learning and AI	Oral
48	gsarker.cse@nitdgp.ac.in	Dr.	GOUTAM SARKER	Computer Science and Engineering	One Optimal Convolution Neural Network for Differentiation among Coronavirus	Online	Data Science, Machine Learning and AI	Oral
49	nagasreenivasarao p@pe.iitr.ac.in	Mr.	Nagasreenivasarao P.	IIT ROORKEE	Synthetic Data Generation and Regression Analysis of the generated data: A	Online	Data Science, Machine learning and AI	Oral
50	yeshali64@gmail.com	Ms	SHALINI S	St. Joseph's Insititute of Technology	Development of smart school id card system	Online	Data Science, Machine learning and AI	Oral
51	gourango.ghosh121@gmail.com	Mr.	Gourango Ghosh	THE UNIVERSITY OF BURDWAN	Enhancing Fraud Detection Accuracy through Hyperparameter Optimization of	Online	Data Science, Machine learning and AI	Oral

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				Techn	ical Track V: Sustainable Composites Technology			
72	gm.21u10620@btech.nitdgp.ac.in	3.6	G + Mil	National Institute of Technology Durgapur	1 00	0.1	Sustainable Composites Technologies	Oral
52 53	PASIBHANGARMUKHERJEE@GMAIL.C	Mr. Ms	Gautam Mishra PRIYASI BHANGAR	Brainware University	Effect of change in quantity and layers of chopped jute strand mat on the structure and	Online Online	Sustainable Composites Technologies Sustainable Composites Technologies	Oral
	shantanu3511@vahoo.com			SRKR Engineering College, Bhimavaram	Sustainable Superalloy Machining in a near dry Lubrication Environment: A GEP-PSO		1 8	
54 55	nil192.iitkep@email.com	Dr Mrs.	SHANTANU DEBNATH Nilima Maji	Lovely Professional University, Puniab	Advancements in Surface Modification of Ferrite Nanoparticles and Their Diverse	Online Online	Sustainable Composites Technologies Sustainable Composites Technologies	Oral
56	81 08	Mrs. Dr.		Bidhan Chandra College, Asansol	Characterizations of some types of solitons in general relativistic spacetime		1 8	Oral
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57 58		Ms.	Aditi Roy		Fabrication of efficient packaging substitute by blending of recycled polymer with surface	Online		
•••	dey.sayon@gmail.com	Mr.	Sayon Dey	Brainware University	Numerical analysis and optimization of different process parameters in AZ31B magnesium	Online	Sustainable Composites Technologies	Oral
59	dl.21u10072@btech.nitdgp.ac.in	Mr.	Deep Laha	NIT Durgapur	Application of Biopolymer based flocculants in re-refining of waste lubricating oil using	Online	Sustainable Composites Technology	Oral
60	kushagra.bhargava1@s.amity.edu	Mr.	Kushagra Bhargava	Amity Institute of Nanotechnology	DEVELOPMENT OF SILVER-THERMOCOL NANOCOMPOSITE FOR ANTI-	Online	Sustainable Composites Technology	Oral
61	nityanandomahato@gmail.com	Mr.	NITYANANDO MAHATO	BRAINWARE UNIVERSITY	Stress distribution and heat transfer of steel alloys insights into gas turbine compressor	Online	Sustainable Composites Technologies	Oral
62	sayanton140503@gmail.com	Mr.	Sayanton Mazumder	National Institute of Technology Durgapur	ute fibre reinforced unsaturated polyesters laminate preparation using egg shell filler	Online	Sustainable Composites Technologies	Oral
63	chatterjeebhaskar36@gmail.com	Mr.	BHASKAR CHATTERJEE	RNTU,BHOPAL,MP	Application of Operation Research in Sustainable Environmental Management System	Online	Sustainable Composites Technologies	Oral
64	sayanton140503@gmail.com	Mr.	Sayanton	National Institute of Technology Durgapur	Parametric optimization of jute fibre reinforced unsaturated polyesters laminate synthesis	Online	Sustainable Composites Technologies	Oral
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					Fechnical Track VI: Environment and Water			
65	ashraf.sumayab@gmail.com	Ms	Sumaya Binta Ashraf	National Institute of Technology Durgapur	Optimized Adsorption of Toxic Ions Using Modified Rice Husk in Aqueous Solutions	Online	Environment and Water	Oral
66	naresh@bccollegeasansol.ac.in	Dr.	Naresh Chandra Pati	Bidhan Chandra College, Asansol	Delayed carrying capacity induced intricate dynamics in single-species evolution in ecology	Online	Environment and Water	Oral
67	saifireza007@gmail.com	Mr.	Md Saifi Reza	Brainware University	Extraction and characterization of fiber from pineapple leaf by different treatment	Online	Environment and Water	Oral
68	aditikoley02@gmail.com	Ms.	Aditi Koley	Maulana Abul Kalam Azad University of	Marigold (Calendula officinalis) leaves powder as a cost-effective and eco-friendly	Online	Environment and Water	Oral
69	chandana280418@gmail.com	Ms	kolluru sree manaswini	Andhra University	Green synthesis of Titanium Dioxide nanoparticles and its adsorptive studies on removal of	Online	Environment and Water	Oral
70	sv.21u10406@btech.nitdgp.ac.in	Mr	Shivam verma	National institute of technology durgapur	Adsorption-regeneration simulation for fluoride removal from simulated wastewater	Online	Environment and Water	Oral
71	db.me@brainwareuniversity.ac.in	Dr.	Debayan Bhowmick	Brainware University	Effect of Wall Corrugation on Entropy Generation for Mixed Convective Flows Over a	Online	Environment and Water	Oral
72	roykajari@gmail.com	Mrs.	Kajari Roy	Jharkhand Rai University	Impact of Sponge Iron Contamination on Soil Microbial Communities: A Metagenomic	Online	Environment and Water	Oral
73	sunnysaurabh197@gmail.com	Mr	Sunny Saurabh	National Institute of Technology Durgapur	Optimization of arsenic detection in water using electrochemical sensors fabricated from	Online	Environment and Water	Oral
74	freddysolomonsd@gmail.com	Mr	FREDDY SOLOMON S	PSG Institute of Advanced Studies	Preparation of an Ultrathin Graphitic Carbon Nitride (g-C3N4) for Visible-Light-Driven	Online	Environment and Water	Oral
75	subhab@ml.tanaka.co.jp	Dr.	Subhabrata Das	Tanaka Kikinzoku Kogyo K.K.	Nanocluster Assemblies as Electrocatalyst for Electrochemical Carbon Dioxide Reduction R	Online	Environment and Water	Oral
				Tecl	hnical Track VII: Biotechnology and Healthcare			
76	mukhopadhyay.rameswar007@gmail.com	Mr.	Rameswar Mukhopadhyay	Adamas University	Antibiofilm and antimicrobial potential of choi jhal (Piper chaba Hunter) extract against	Online	Biotechnology and Healthcare	Oral
77	sourajit.cse.ju@gmail.com	Mr.	Sourajit Maity	Sister Nivedita University	Skin Disease Classification: A Feature Fusion-based Custom Deep Learning Model	Online	Biotechnology and Healthcare	Oral
78	moupiyaghosh29091994@gmail.com	Dr.	Moupiya Ghosh	Institute of Engineering and Management	Enhanced antibacterial activity of a novel drug-conjugated magnetic nanoparticles	Online	Biotechnology and Healthcare	Oral
79	saptarsika@gmail.com	Mrs.	Saptarsika Das	Mizoram University	Design of a Multiband FSS Absorber	Online	Biotechnology and Healthcare	Oral
80	debichhandade@gmail.com	Ms	Debichhanda De	Ming Chi University of Technology	High Throughput Fabrication of Cost-Effective SERS Substrate with Remarkable	Online	Biotechnology and Healthcare	Oral
81	mr.das201718@yahoo.com	Mr.	AMIT KUMAR DAS	BANKURA UNIVERSITY	Stochastic gene transcription with non-competitive transcription regulatory architecture	Online	Biotechnology and Healthcare	Oral
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ADDITIONAL								
82	kh.19ce1502@nhd.nitden.ac.in	Mr.	Kovndrik Bhattachariee	National Institute of Technology, Durgapur	Leveraging Hybrid Deep Reinforcement Learning and Ensemble	Online	Data Science, Machine learning and AI	Oral