

SILIGURI INSTITUTE OF TECHNOLOGY
R & D CELL
Journal Publication July 2022-June 2023

SL NO	Title of paper	Name of the author/s	Name of journal	Year of publication	Indexed by SCI/ UGC Care list/Scopus/Web of Science
COLLEGE CODE 119					
1	High tilted antiferroelectric liquid crystals: Polymer-based approach for phase stabilisation and device development	Shantiram Nepal, Banani Das , Malay Kumar Das, Madhumita Das Sarkar, Katarzyna Stróżyńska, Ewelina Dmochowska, Michał Czerwiński	Journal of Molecular Liquids	April, 2023	UGC CARE, Scopus, SCIE.
2	Critical behaviour near the nematic-smectic-C and nematic-smectic-A phase transitions of a binary system: a comparative study from calorimetric, optical and dielectric measurements,	Smriti Mitra, Malay Kumar Das and Banani Das	Liquid Crystals	April, 2023	UGC CARE, Scopus, SCIE.
3	Chaos Based Encryption Techniques on Medical Images - A comprehensive review	Sujata Ghatak, Satyajit Chakraborty, Debasmitri Bhattacharjee , Debajyoti Misra , Biswajoy Chatterjee, Mousumi Gupta, Snehashish Bhattacharjee	SN Computer Science	June, 2023 (Communicated)	Scopus
4	Influence of areca nut husk nano-additive on combustion, performance, and emission characteristics of compression ignition engine fuelled with plastic-grocery-bag derived oil-water-diesel emulsion	Dipankar Saha , Bidesh Roy	Energy	Jan 2023	SCI, Scopus, Web of Science, etc.

5	Experimental investigation of thermal performance, kinetic triplets, and synergistic effect for bamboo-waste plastic (PP & PE) blends using thermogravimetric analyser in N ₂ atmosphere	Satyajit Pattanayak, Chancel Loha, Rohit Kumar Singh, Dipankar Saha	Sustainable Energy Technologies and Assessments	May-23	SCIE, Scopus, Web of Science, etc.
6	On the set of all I-convergent sequences over different spaces	Mandobi Banerjee , Manasi Mandal	Filomat(volume 37)	Jan, 2023	SCIE, UGC Care list
7	$\alpha\beta$ -weighted dg-statistical convergence in probability	Mandobi Banerjee	Kragujevac Journal of Mathematics, 46 (2)	2022	Scopus, Emerging Sources Citation Index (ESCI), UGC-Care list.
8	Polyethylene Glycol (PEG-200) : An Efficient , Green and Biocompatible reaction Medium for the Metal- Free Synthesis of Functionalized 1,4-	Aminul Islam, Rabindranath Singha , Pranab Ghosh	ChemistrySelect	2023	UGC Care
9	Predictive framework for crime data analysis using a hybrid logistic regression — support vector machine based ensemble classifier powered by CART (LR-SVMCART)	Anupam Mukherjee , Anupam Ghosh	Multimedia Tools and Applications	March, 2023	SCIE,UGC CARE, SCOPUS, ACM
10	Design Challenges of Circular Sector Microstrip Antenna: 170° Circular Sector is a Better Alternative of Circular Microstrip Antenna	Sudip Kumar Ghosh , A. Ghosh , L. L. K. Singh and S. Chattopadhyay	Advanced Electromagnetics (AEM)	2023 Communicated	SCIE/ Scopus
11	System Economy Improvement and Risk Shortening by Fuel Cell-UPFC Placement in a Wind-Combined System	Mitul Ranjan Chakraborty; Subhojit Dawn; Pradip Kumar Saha; Jayanta Bhusan Basu ; Taha Selim Ustun	Energies 2023,	February 2023	Science Citation Index
12	Risk Mitigation & Profit Improvement of a Wind-Fuel Cell Hybrid System with TCSC Placement	Jayanta Bhusan Basu , Subhojit Dawn, Pradip Kumar Saha, Mitul Ranjan Chakraborty, Faisal Alsaif, Sager Alsulamy, Taha Selim Ustun	IEEE Access	April 2023	SCI, Scopus, Web of Science, etc.

13	The night of scorpion:The table of the Juxtapositionof the indian reality	Hrishikesh Roy, Rimni Chakravarty	Organizational Development Journal	June 2023	UGC Care
14	Review and Approximate Analysis of Edge Detection Algorithms using MATLAB	Anindita Sinha, Dr. Surajit Mandal	International Journal of Innovative Research in Technology	August 2022	UGC Care
15	Formation of Li ₁₀ Zn ₄ O ₉ , Li ₂ MoO ₃ , and ZnSeO ₃ Nanophases: Roles in Electrical Conductivity and Electrochemical Stability in Lithium Ion Conductors and their Crystalline Counterparts”	Aditi Sengupta, Anil Chamuah, Rakesh Ram, Chandan Kumar Ghosh, Sanghraj Diyali, Bhaskar Biswas, Mir Sahidul Ali and Sanjib Bhattacharya	ECS Journal of Solid State Science and Technology	2022	Scopus
16	A Strategy for System Risk Mitigation using FACTS Devices in a Wind Integrated Competitive Power System	Arup Das, Subhojit Dawn, Sadhan Gope, Taha Selim Ustun	Sustainability	2022	Science Citation Index
17	Load frequency control scheme for a microgrid system with the application of hTLO-DE algorithm. Accepted for publication.	Indrajit Koley, Asim Datta, G.K.Panda	Engineering Reviews	2022	Science Citation Index
18	Li ₂ O-ZnO-MoO ₃ -SeO ₂ glass-nanocomposites and their crystalline counterparts: microstructure, electrical transport mechanism and first principle	Aditi Sengupta, Prolay Halder, Mir Sahidul Ali, Chandan Kumar Ghosh and Sanjib Bhattacharya	Physica Scripta	2022	Scopus
19	A Study of 4G Internet Service Provider (ISP) Brand Selection Behavior of Customers and Market Standing of ISPs in Siliguri and Darjeeling Towns of North	Shuvendu Dey, Shomnath Dutta & Santana Guha	Social Science Research Sustainable Practices	2022	Taylor & Francis-Routledge Publication
20	Learner Satisfaction of Academic Dynamics of Learner-Centric Online Learning method: A Multivariate	Dr. Dipak Saha and Shuvendu Dey	Empirical Economic Letters	2022	ABDC-C
21	A Comparative Review on Energy Storage Systems and Their Application in Deregulated Systems	Mitul Ranjan Chakraborty, Subhojit Dawn, Pradip Kumar Saha, Jayanta Bhusan Basu and Taha Selim Ustun	Batteries	2022	Science Citation Index

22	A Comparative Study on System Profit Maximization of a Renewable Combined Deregulated Power System	Jayanta Bhusan Basu , Subhojit Dawn, Pradip Kumar Saha, Mitul Ranjan Chakraborty and Taha Selim Ustun	Electronics	2022	Science Citation Index
23	Economic Enhancement of Wind–Thermal–Hydro System Considering Imbalance Cost in Deregulated Power Market	Jayanta Bhusan Basu , Subhojit Dawn, Pradip Kumar Saha, Mitul Ranjan Chakraborty and Taha Selim Ustun	Sustainability	2022	Science Citation Index
24	System profit improvement of a thermal-wind-CAES hybrid system considering imbalance cost in the electricity market	Mitul Ranjan Chakraborty, Subhojit Dawn, Pradip Kumar Saha, Jayanta Bhusan Basu and Taha Selim Ustun	Energies	2022	Science Citation Index
25	Artificial Intelligent based Smart Drainage System (Communicated)	Debajyoti Misra , Gautam Das, Debaprasad Das	Wireless Personal Communication	2022	Science Citation Index Expanded (SCIE), SCOPUS
26	Controlling birhythmicity in a new Dual Loop Optoelectronic Oscillator with an injection locked van der Pol oscillator	Dia Ghosh , Arindum Mukherjee, Shantanu Mandal et. Al.	Physica D	2022	SCI
27	Diabetic Retinopathy Detection using Curvelet and Retina Analyzer	Manas Saha , B. N. Chatterji	International Journal of Information and Communication Technology	2022 (in press)	Scopus
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28	Efficiency Management of Women Poultry Farmers Using Hybrid DEA and Machine Learning Approach: A Case of SHG-based Production in Sub-Himalayan North Bengal	Anirban Nandy , Poulomi Chaki Nandi, and Mousumi Chatterjee	Vision: The Journal of Business Perspective	2023	SCOPUS, ABDC, ESCI, UGC CARE

29	The Adivasi Rice Growers of Sub Himalayan North Bengal Efficient Enough? Role of Machine Learning in Farm Business after COVID-19	Anirban Nandy , Poulomi Chaki Nandi, and Mousumi Chatterjee	Global Business Review	R and R - 2023	SCOPUS, ABDC, ESCI, UGC CARE
College - 335					
30	Impact ,Prospect, Sustainability & Economic value of Community based Eco Tourism in North Bengal-An overview of Doars.	Apurba Chakraborty	Change Management: An International Journal	2022	Scopus
College - 336					
31	Long term and short term forecasting of horticultural produce based on the LSTM network model	T Banerjee , S Sinha, P Choudhury	Applied Intelligence	2022	Science Citation Index
32	State-of-the-Art Analysis of Malware Evasion Techniques: Current Trends and Emerging Strategies	Amit Kumar Singh, Swapnesh Taterh, Uddalak Mitra	SN Computer Science (Journal publication)	2023	Scopus
33	A novel algorithm for genomic STR mining: application to phylogeny reconstruction and taxa identification	Uddalak Mitra , Soumya Majumder and Sayantan Bhoumick	Int. J. of Bioinformatics Research and Applications	2023	Scopus

