

Faculty Publication

Sl No .	Name of Author	Title of Publication	Published in (Name of Journal, Volume, Page number)	Impact Factor	Indexed in (SCI/Scopus/Web of Science)	Link of the journal	Link to the recognition in UGC enlistment of the Journal / Digital Object Identifier (doi) number
1	Dr. Anirban Patra	Secured communication of multiple compressed infrared images using 6D hyper-chaotic encryption	Journal of Optics	1.6	SCIE (Journal)	https://link.springer.com/article/10.1007/s12596-024-01655-x	doi.org/10.1007/s12596-024-01655-x
2	Dr. Anirban Patra	Data Protection Using Optical System and Steganography Tool	IEEE Xplore	1.2	Scopus (conference)	https://ieeexplore.ieee.org/document/10421449	https://doi.org/10.1109/NEleX.2023.10421449
3	Dr. Anirban Patra	Compression of High-Resolution Space Video Using Phase Grating,	Journal of the Indian Society of Remote Sensing, vol-51, pp-2057-2066	2.2	SCIE (Journal)	https://link.springer.com/article/10.1007/s12524-023-01748-3	doi.org/10.1007/s12524-023-01748-3
4	Dr. Anirban Patra	Second level storage space optimization for lossless imagecompression using diffraction grating	Journal of Optics	1.6	SCIE (Journal)	https://link.springer.com/article/10.1007/s12596-024-01919-6	doi.org/10.1007/s12596-024-01919-6

5	Dr. Anirban Patra	Progress in Birefringent Material-Based Achromatic Phase Modulators	“Next Generation Wireless Communication: Advances in Optical, mm-Wave, and THz Technologies, pp- 527-555	NA	Scopus (Book chapter)	https://link.springer.com/book/10.1007/978-3-031-56144-3	doi.org/10.1007/978-3-031-56144-3_31
6	Dr. Anirban Patra	Video Encryption using Diffraction Grating and QR Code in Optical Frequency Domain	“Next Generation Wireless Communication: Advances in Optical, mm-Wave, and THz Technologies, pp- 587-597	NA	Scopus (Book chapter)	https://link.springer.com/book/10.1007/978-3-031-56144-3	doi.org/10.1007/978-3-031-56144-3_33
7	Dr. Ashim Kumar Biswas	An implantable ISM band antenna for biomedical application	Frequenz	2.4	SCIE (Journal)	https://www.degruyter.com/document/doi/10.1515/freq-2023-0207/html	https://doi.org/10.1515/freq-2023-0207
8	Dr. Ashim Kumar Biswas	Compact body-worn MIMO antenna with high port isolation for UWB applications	International Journal of Communication Systems	5.9	SCIE (Journal)	https://onlinelibrary.wiley.com/doi/10.1002/dac.5764	doi.org/10.1002/dac.5764
9	Dr. Ashim Kumar Biswas	A Highly Decoupled Flexible 4-element MIMO Antenna with Band Notched Characteristics for Ultra Wide-band Wearable Applications	AEU - International Journal of Electronics and Communications, vol-173,pp-154985	5.6	SCIE (Journal)	https://www.sciencedirect.com/science/article/pii/S1434841123004594	doi.org/10.1016/j.aeue.2023.154985

10	Dr. Ashim Kumar Biswas	Non-conventional leather substrate based high isolation wideband MIMO antenna for body- centric applications	AEU - International Journal of Electronics and Communications, vol-170, pp-154871	5.6	SCIE (Journal)	https://www.sciencedirect.com/science/article/abs/pii/S143484112300345X	doi.org/10.1016/j.aeue.2023.154871
11	Dr. Ashim Kumar Biswas	Performance Analysis of Automatic Modulation Classification Method for Different Modulation Techniques Using CNN Algorithm	International Conference on Intelligent Systems and Sustainable Computing, pp-489-496	NA	Scopus(conference)	https://link.springer.com/chapter/10.1007/978-981-99-4717-1_46	doi.org/10.1007/978-981-99-4717-1_46
12	Dr. Ashim Kumar Biswas	Design of a Tri-Band Patch Antenna with Metamaterial Aperture Ground	2023 International Conference on Next Generation Electronics (NEleX)	1.2	Scopus (conference)	https://ieeexplore.ieee.org/document/10421002	https://doi.org/10.1109/NEleX.59773.2023.10421002
13	Dr. Indranath Sarkar	Reconfigurable Antennas for 5G Wireless Applications	IoP Journal of Physics	2.0	Scopus (journal)	Waiting	Waiting
14	Dr. Moumita Pal	A Machine Learning Approach for The Analysis Of Human Emotions	Journal of Chemical Health Risks, vol-14	1.3	Scopus (journal)	https://www.scopus.com/sourceid/21100912214	https://www.jchr.org/index.php/JCHR/article/view/3833

15	Dr. Indranath Sarkar	High Isolation Wide band MIMO Antenna for Applications in IoT Devices	IoP Journal of Physics	2.0	Scopus (journal)	Waiting	Waiting
16	Dr. Moumita Pal	Upper limb muscle grading for some daily life activity using surface electromyography (S-EMG) and Discrete Wavelet transform	Journal of Xidian University	5.4	Scopus (journal)	https://xadzkjdx.cn/index.php/volume-17-issue-7-july-23/	DOI:10.37896/jxu17.7/102
17	Dr. Moumita Pal	A Data-Driven Framework Addressing Students' Motivation, Regulation and Strategic Approaches	Scope	0.17	Scopus (journal)	https://www.scopus.com/sourcid/5800161874	https://scope-journal.com/published_paper/679/A+Data+Driven+Framework+Addressing+Students++Motivation%2C+Regulation+and+Strategic+Approaches
18	Dr. Moumita Pal	Study of “Examination System” Introducing IP Based Robo Invigilator Technique	Journal for Basic Science	6.1	Scopus (journal)	https://fzgjkxb.com/volume-23-issue-10-2023/	https://doi.org/10.37896/JBSV.23.10/2633
19	Dr. Anirban Patra	Remote Sensing Image Encryption And Error Detection Using Hamming Code	Journal Of Physics; Vol 2286	0.48	SCOPUS (conference)	https://iopscience.iop.org/article/10.1088/1742-6596/2286/1/012018	Doi:10.1088/1742-6596/2286/1/012018

20	Dr. Anirban Patra	Efficient Storage And Encryption Of 32-Slice CT Scan Images Using Phase Grating	AJSE; Vol - 48; Pp- 1757-1770	2.8	SCIE; (Journal)	https://link.springer.com/article/10.1007/s13369-022-06986-0	Doi:10.1007/S13369-022- 06986-0
21	Dr. Anirban Patra	Compression Of High – Resolution Medical And Space Color Video Using Butterworth Filter	IEEE Xplore; Pp -1-6	0.8	SCOPUS (conference)	https://ieeexplore.ieee.org/document/10058648	10.1109/CCIP57447.2022.10058648
22	Dr. Anirban Patra	Error Detection And Correction Of High-Resolution Remote Sensing Images Using Cyclic Code	Springer Optical To Terahertz Engineering; Vol - 23; Pp- 163-172	NA	SCOPUS (Book Chapter)	https://Link.Springer.Com/Book/10.1007/978-981-99-0228-6	Doi:10.1007/978-981-99-0228- 6_10
23	Dr. Anirban Patra	Segmentation Of Used Biodegradable And Non-Biodegradable Products Of Covid 19 Patients Using Thermal Image Processing	Springer Optical To Terahertz Engineering; Vol - 23; Pp- 183-181	NA	SCOPUS (Book Chapter)	https://link.springer.com/chapter/10.1007/978-981-99-0228-6_11	Doi:10.1007/978-981-99-0228- 6_11
24	Dr. Indranath Sarkar	Contrived Motorization Of Vehicle Through Advanced Android Administration	Journal Of Physics; Vol 2286	0.48	SCOPUS (conference)	https://iopscience.iop.org/article/10.1088/1742-6596/2286/1/012003	Doi:10.1088/1742- 6596/2286/1/012003

25	Aniruddha Ghosh	Remote Sensing Image Encryption And Error Detection Using Hamming Code	Journal Of Physics; Vol 2286	0.48	SCOPUS (conference)	https://iopscience.iop.org/article/10.1088/1742-6596/2286/1/012018	Doi:10.1088/1742- 6596/2286/1/012018
26	Dr. Ashim Kumar Biswas	Compact Wearable UWB MIMO Antenna With Reduced Mutual Coupling And Notch Characteristics Of WLAN Band	Arabian Journal For Science And Engineering, Vol. 47, Issue 11, Pages 14561-14569	2.807	SCIE (Journal)	https://link.springer.com/article/10.1007/s13369-022-06861-y	https://doi.org/10.1007/s13369-022-06861-y
27	Dr. Ashim Kumar Biswas	Ultra-Wideband Flexible Wearable Antenna With Notch Characteristics For WLAN Applications	Progress In Electromagnetics Research C, Vol. 129, Pages	0.337	ESCI (Journal)	https://www.researchgate.net/publication/367565741_Ultra-wideband_Flexible_Wearable_Antenna_with_Notch	Doi:10.2528/PIERC22110506
28	Mainuck Das	Remote Sensing Image Encryption And Error Detection Using Hamming Code	Journal Of Physics; Vol 2286	0.48	SCOPUS (conference)	https://iopscience.iop.org/article/10.1088/1742-6596/2286/1/012018	10.1088/1742-6596/2286/1/012018
29	Dr. Moumita Pal	Suitable Model Prediction Based On COVID 19 Phase I Data	Journal Of Physics: 2022, 2286(1), 012021	0.48	SCOPUS (conference)	https://iopscience.iop.org/article/10.1088/1742-6596/2286/1/012021	DOI 10.1088/1742- 6596/2286/1/012021
30	Dr. Moumita Pal	Silicon Carbide Membranes For Micro- Electro-Mechanical- Systems Based	Materials Physics And Mechanics, 2022, 49(1), Pp. 85–96	1.22	ESCI (Journal)	https://mpm.spbstu.ru/article/2022.89.6/	DOI: 10.18149/MPM.4912022_6

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31	Dr. Moumita Pal	Modeling And Characterization Of MEMS System Utilizing Of Polymers And Composite Materials Based On Tensile Testing	Encyclopedia Of Materials: Plastics And Polymers, 2022, 1-4, Pp. 663–675	1.5	SCOPUS (Journal)	https://www.sciencedirect.com/science/article/abs/pii/B978012820352100273X?via%3Dihub	DOI: 10.18149/MNM.4914023_7
32	Dr. Moumita Pal	An Efficient Electrostatic Actuation Model For MEMS-Based Ultrasonic Transducers With Fringing Effect	Microsystem Technologiesth Vol-29, pp- 583-597	1.67	SCIE(journal)	https://link.springer.com/article/10.1007/s00542-023-05412-1	https://doi.org/10.1007/s00542-023-05412-1
33	Dr. Moumita Pal	Sustainable Development Using Digital Twin Technology With Image Processing	Handbook Of Research On Applications Of AI, Digital Twin, And Internet Of Things For Sustainable Development,2023, Pp. 344–360	NA	SCI(Journal)	https://www.igi-global.com/gateway/chapter/318862	DOI: 10.4018/978-1-6684-6821-0.ch020

34	Dr. Biswarup Neogi	Mathematical Modeling Of Respiratory System Introducing Electrical Control Function Analogy	Lecture Notes In Electrical Engineeringthis Link Is Disabled, 2022, 851, Pp. 649–661	0.34	SCOPUS; (Book chapter)	https://link.springer.com/chapter/10.1007/978-981-16-9154-6_60	https://doi.org/10.1007/978-981-16-9154-6_60
35	Dr. Biswarup Neogi	Surface Electromyogram (S- EMG) Spectrogram Analysis Of Human Arm Activity Towards Interpretability And Classification	Lecture Notes In Networks And Systemsthis Link Is Disabled, 2022, 376, Pp. 281–289	0.56	SCOPUS; (Book chapter)	https://link.springer.com/chapter/10.1007/978-981-16-8826-3_25	https://doi.org/10.1007/978-981-16-8826-3_25
36	Dr. Biswarup Neogi	Contrived Motorization Of Vehicle Through Advanced Android Administration	Journal Of Physics: Conference Series 2022, 2286(1), 012003	1.02	SCOPUS; WOS (conference)	https://iopscience.iop.org/article/10.1088/1742-6596/2286/1/012003	DOI 10.1088/1742-6596/2286/1/012003
37	Dr. Biswarup Neogi	Influentia Factor Finding For Engineering Student Motivation	Communicatio ns In Computer And Information Science, 2022, 1737 CCIS, Pp. 137–147	0.37	SCOPUS; WOS (Conference)	https://link.springer.com/chapter/10.1007/978-3-031-23233-6_10	https://doi.org/10.1007/978-3-031-23233-6_10

38	Dr. Biswarup Neogi	Displacement Tracking Of Uncertain Nonlinear Cardiovascular Muscle Using Lyapunov Function With Disturbance Observer- Based Control	International Journal Of Modelling, Identification And Control, 2022, 41(4), Pp. 295–305	1.25	ESCI (Journal)	https://www.inderscience.com/offers.php?id=128313	https://doi.org/10.1504/IJMIC.2022.128313
39	Dr. Biswarup Neogi	Nonlinear Analysis Of Howland Current Source Using Describing Function And Simulation	AIP Conference Proceedings 2022, 2393, 020090	1.37	SCOPUS; WOS (conference)	https://pubs.aip.org/aip/ap/article-abstract/2393/1/020090/2821509/Nonlinear-analysis-of-Howland-current-source-using	https://doi.org/10.1063/5.0074168
40	Dr. Ashim Kumar Biswas	Performance Analysis of Automatic Modulation Classification Method for Different Modulation Techniques Using CNN Algorithm	Intelligent Systems and Sustainable Computing 363, 489-496	3.8	SCOPUS (Book Chapter)	https://link.springer.com/chapter/10.1007/978-981-99-4717-1_46	https://doi.org/10.1007/978-981-99-4717-1_46
41	Dr. Ashim Kumar Biswas	Non-conventional leather substrate based high isolation wideband MIMO antenna for body-centric applications	AEU- International Journal of Electronics and Communications 170, 154871	3.2	SCIE (Journal)	https://www.sciencedirect.com/science/article/abs/pii/S143484112300345X	https://doi.org/10.1016/j.aecue.2023.154871

42	Dr. Moumita Pal , Ranjana Ray	Remote Patient Monitoring during pandemic caused by COVID-19 using Semantic Web Technologies	Journal of Physics: Conference Series, Volume 1797,	0.48	SCOPUS; WOS (conference)	https://iopscience.iop.org/article/10.1088/1742-6596/1797/1/012023	10.1088/1742-6596/1797/1/012023
43	Dr. Moumita Pal	Performance Analysis of Nano- Electro-Mechanical-System Ultrasonic Sensor with Fringing Field Effects	Transactions on Electrical and Electronic Materials volume 22, pages757–763	1.03	ESCI(journal)	https://www.ijaresm.com/uploaded_files/document_file/Anirban_Ghosal,_Ayan_saha,_Indira_Dey,_Soumik_Morial,_Atrayee_Sengupta,_Jeeta_Mahal,Jiban_Krishna_Saha_fNdK.pdf	doi.org/10.1007/s42341-021-00297-1
44	Dr. Moumita Pal	Effects of fringing capacitances and electrode's finiteness in improved SiC membrane based micromachined ultrasonic transducers	Microsystem Technologies volume 27, pages3679–3691	0.41	SCIE(journal)	https://link.springer.com/article/10.1007/s00542-020-05135-7	https://doi.org/10.1007/s00542-020-05135-7
45	Dr. Madhura Chakraborty	Second order experimental statistics of rain attenuation at Ka band in a tropical location	Advances in Space Research, 67(12), pp 4043-4053	2.8	SCI(journal)	https://www.sciencedirect.com/science/article/abs/pii/S0273117721001800	https://doi.org/10.1016/j.asr.2021.02.033

46	Dr. Madhura Chakraborty	Experimental Studies of Slant Path Rain Attenuation Over Tropical and Equatorial Regions: A Brief Review	IEEE Xplore	0.76	SCIE(journal)	https://ieeexplore.ieee.org/document/9045931	10.1109/MAP.2020.2976911
47	Dr. Biswarup Neogi	Mechanism to disinfect money to prevent COVID-19	Journal of Physics: Conference Series, Volume 1797,	0.48	SCOPUS (Conference)	https://iopscience.iop.org/article/10.1088/1742-6596/1797/1/012050	10.1088/1742-6596/1797/1/012050
48	Dr. Biswarup Neogi	Industry linked curriculum enrichment system towards the improvement of employability	Journal of Engineering Education Transformations, 35, Pp 97-104	0.48	SCOPUS; WOS (Journal)	https://journaleet.in/articles/industry-linked-curriculum-enrichment-system-towards-the-improvement-of-employability	10.16920/jeet/2022/v35is3/22145
49	Dr. Biswarup Neogi	Hat alarm system to protect eyes, nose and mouth from corona virus contaminated hand	Journal of Physics: Conference Series, Volume 1797,	0.48	SCOPUS; WOS (conference)	https://iopscience.iop.org/article/10.1088/1742-6596/1797/1/012051	10.1088/1742-6596/1797/1/012051
50	Dr. Biswarup Neogi	Dynamics of Cardiovascular Muscle Using a Non-Linear Symmetric Oscillator	Symmetry, Volume 13, Pages 1-18	1.31	SCOPUS; WOS (Journal)	https://www.mdpi.com/2073-8994/13/1/151	10.3390/sym13010151

51	Ranjana Ray, Dr. Moumita Pal.	Design of miniaturized FSS structure using Optimization Technique based on Machine Learning	Journal of Physics: Conference Series, Volume 1797,	0.48	SCOPUS; WOS (conference)	https://iopscience.iop.org/article/10.1088/1742-6596/1797/1/012034	10.1088/1742-6596/1797/1/012034
52	Dr. Anirban Patra	Watermarking in Chemical Images using Alpha Blending	IJERT	1.31	SCOPUS(journal)	https://www.ijert.org/research/watermarking-in-chemical-images-using-alpha-blending-IJERTCONV9IS11005.pdf	DOI: 10.1109/MAP.2020.2976911
53	Anirban Ghosal	A Scholastic Approach to Design Cost Effective Automated Greeting Device	International Journal of All Research Education and Scientific Methods, Volume 9, pp 1945-1950	8.5	Scopus(journal)	https://www.ijaresm.com/	DOI:10.1088/1742- 6596/1797/1/012030
54	Anirban Ghosal,	Computing Automobile Fuel Consumption and Stalking the Location of Vehicle Using Improved GPS Navigation through Effect of Noise	International Journal of All Research Education and Scientific Methods, Volume 9, Pages 1966-1972	8.5	UGC(journal)	https://www.ijaresm.com/	DOI:10.1088/1742- 6596/1797/1/012023

55	Anirban Ghosal	A Simplified Investigation to Design an Economical Basic Digital Modulation Experiments Kits	International Journal of All Research Education and Scientific Methods, Volume 9, Pages 3455-3461	7.4	UGC(journal)	https://www.ijaresm.com/uploaded_files/document_file/Anirban_Ghosal,_Pushpan_Bhaumik,_Debajit_Das,_Juli_Kumari,_Kumari_Diksha_Rai,_Aman_Kumar_Thakur_Nikita_MulchandaniRxKa.pdf	http://www.ijaresm.com/a-simplified-investigation-to-design-an-economical-basic-digital-modulation-experiments-kits
56	Dr. Indranath Sarkar	Design and realization of low profile compact wideband monopole printed antenna for C and X band application	Journal of Physics: Conference Series, Volume 1797,	0.34	SCOPUS (conference)	https://iopscience.iop.org/article/10.1088/1742-6596/1797/1/012030/pdf	10.1088/1742-6596/1797/1/012030