



Adi Shankara

INSTITUTE OF ENGINEERING AND TECHNOLOGY

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CRITERIA 3- Research, Innovations and Extension

3.3- Research Publication and Awards



3.3.1 Number of research papers published per teacher in the journals notified on the UGC CARE list during the last five years

Submitted to



National Assessment and Accreditation Council

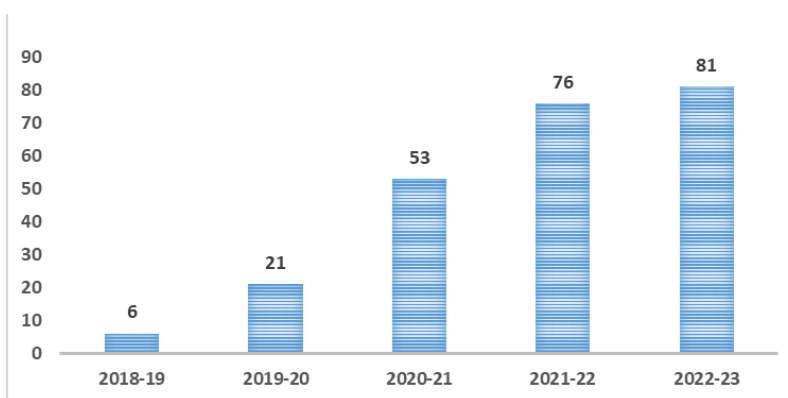
3.3.1.1. Number of research papers in the Journals notified on UGC CARE year wise during the last five years

Faculty members of Adi Shankara Institute of Engineering and Technology have made significant contributions to academic research by publishing numerous papers in journals recognized by the UGC CARE (Consortium for Academic and Research Ethics). These publications span a wide range of disciplines, reflecting the diverse expertise and innovative research conducted at the institute. By adhering to the rigorous standards set by UGC CARE, the faculty ensures that their research is of high quality and contributes meaningfully to the global body of knowledge. This commitment to scholarly excellence not only enhances the institute's academic reputation but also provides valuable insights and advancements in various fields of study.

The summary of research papers published in the Journals notified on UGC CARE is as below:

SI No	Year	Number of Research papers published
1	2023	5
2	2022	23
3	2021	32
4	2020	15
5	2019	6
Total		81

Statistical representation of increase in number of publications



The documentary evidence is as follows:

Sl No	Title of paper	Name of journal	Year of publication	Link to article / paper / abstract of the article
1	Automated biomedical image classification using multi-scale dense dilated semi-supervised U-Net with CNN architecture	Multimedia Tools and Applications Journal,	2023	View details
2	A Novel Comparative Approach for Estimating Maximum Penetration Capacity of Grid Connected Solar Photovoltaic System in Distribution Network	Journal of Electrical Engineering & Technology	2023	View details
3	Rapid prototyping of predictive direct current control in a low-cost FPGA using HDL coder	International Journal of Power and Energy Systems	2023	View details
4	Development and Mechanical Characterization of Ni-Cr Alloy Foam Using Ultrasonic-Assisted Electroplating Coating Technique	MDPI Coatings	2023	View details
5	Innovations in exploiting photo-controlled Marangoni flows for soft matter actuations	Soft Matter	2023	View details

6	Review on role of nanoscale HfO ₂ switching material in resistive random access memory device	Emergent Materials, Springer Nature	2022	View details
7	Trust-based secure routing and message delivery protocol for signal processing attacks in IoT applications	The Journal of Supercomputing	2022	View details
8	Classification of COVID patient image dataset using modified deep convolutional neural network system	Bulletin of Electrical Engineering and Informatics	2022	View details
9	Auto-encoder and bidirectional long short-term memory based automated arrhythmia classification for ECG signal	Biomedical Signal Processing and Control	2022	View details
10	High gain DC-DC converter using switched inductor and capacitor technique for micro grid application	Stochastic Modeling & Applications	2022	View details
11	Design and Development of a High-Gain Bi Directional DC-DC Converter with reduced ripple for UPS Application	Stochastic Modeling & Applications	2022	View details
12	A high efficient AC/DC converter with Pi controller and PFC capability	Stochastic Modeling & Applications	2022	View details

13	A Modified Electric Vehicle Charger Topology with Bidirectional Capability for EV Application	Stochastic Modeling & Applications	2022	View details
14	Closed Loop Control Strategy for Quasi Resonant Sepic Converter for Solar Photovoltaic Applications	Stochastic Modeling & Applications	2022	View details
15	Performing the classification of pulsation cardiac beats automatically by using CNN with various dimensions of kernels	International Journal of Reconfigurable and Embedded Systems (IJRES)	2022	View details
16	Hysteresis Based Quasi Fixed Frequency Current Control of Single Phase Full Bridge Grid Integrated Voltage Source Inverter	Energies	2022	View details
17	An analysis of foreign direct investment theories	International Journal of Innovative Research in Engineering & Multidisciplinary Physical Sciences	2022	View details
18	Relevance of shipping terms	Journal of Emerging Technologies and Innovative Research	2022	View details

19	How to reduce financial risks in exports?	International Journal of All Research Education and Scientific Methods	2022	View details
20	Modelling the Interaction Between Serious Leisure, Self-Perceived Employability, Stress, and Workplace Well-being: Empirical Insights from Graduates in India	Personnel Review	2022	View details
21	Enhancing employee wellbeing – An employability perspective.	Benchmarking: An International Journal	2022	View details
22	Portraying Women in Advertisements: An analogy between past and present	American Journal of Economics and Sociology	2022	View details2
23	Additional Skills Acquisition Programme (ASAP) project: the case of an employability enhancement initiative in India	Journal of International Education in Business	2022	View details
24	Srilanka Economics Crisis-The Symptoms ,Causes,and Possible Cures	International Journal of Business Ethics in Developing Economies	2022	View details
25	Entrepreneurial Intention of Indian Women University Students	JOURNAL of Women Entrepreneurship and Education	2022	View details8

26	A review of sustainable and environment- friendly flame retardants used in plastics	Polymer Testing	2022	View details
27	A review on combustion and mechanical behavior of pyrolysis biochar	Materials Today Communications	2022	View details
28	PH Control in Sodium Chlorate Cell for energy efficiency using PSO-FOPID Controller	Chemical Industry & Chemical Engineering Quarterly	2022	View details
29	Fuzzy Probist System Reliability of Weaving Machine in Textile Industry	IOP Conference Series: Material Science and Engineering	2021	View details
30	Comparison of Reliability Evaluation of Weaving Machine Using Different Fuzzy Numbers	International Journal of Grid and Distributed Computing	2021	View details
31	High Security of Transformation Based Biometric Cryptosystems for Fingerprint Template Protection	Solid State Technology	2021	View details
32	A novel design proposal for low-cost vein-viewer for medical and non-contact biometric applications using NIR imaging	Journal of Medical Engineering & Technology	2021	View details

33	Exploitation whale optimization based optimal offloading approach and topology optimization in a mobile ad hoc cloud environment	Journal of Ambient Intelligence and Humanized Computing	2021	View details
34	Physical Layer Security of Cognitive Ambient Backscatter Communications for Green Internet-of-Things	IEEE Transactions on Green Communications and Networking	2021	View details
35	Content based Image Retrieval Method using Fuzzy Heuristics	Annals of the Romanian Society for Cell Biology	2021	View details
36	Design and Implementation of Solar Powered Electric Vehicle for MultitaskingApplication in Agriculture	Annals of the Romanian Society for Cell Biology	2021	View details
37	Non Destructive Testing of Milk adulteration using Ultrasound	Annals of the Romanian Society for Cell Biology	2021	View details
38	Digital Design Systems Controlling Using FPGA Realization	Annals of the Romanian Society for Cell Biology	2021	View details
39	Numerical Analysis of S-Shaped Micro-Strip Patch Antenna Using FDTD	Annals of the Romanian Society for Cell Biology	2021	View details

40	Design of Micro-strip Patch Antenna for Future 5G WCS	Annals of the Romanian Society for Cell Biology	2021	View details
41	Novel LMS-Neural Network based DSTATCOM for Improving Power Quality	Annals of the Romanian Society for Cell Biology	2021	View details
42	Li-Fi (Light Fidelity) and Blockchain Based Warplane Secure Communication	Annals of the Romanian Society for Cell Biology	2021	View details
43	Classification of Medical Images using Deep and Handcrafted Visual Feature-based Algorithm	Annals of the Romanian Society for Cell Biology	2021	View details
44	LBMM in Cloud Computing	Annals of the Romanian Society for Cell Biology	2021	View details
45	Block Chain (Binary Relevance Method) Using Machine Learning Technique	Annals of the Romanian Society for Cell Biology	2021	View details
46	Implementation of Intelligent Biometric Attendance System	Turkish Journal of Computer and Mathematics Education	2021	View details

47	Novel Predictive Current Controller for DSTATCOM to Improve Power Quality	Annals of the Romanian Society for Cell Biology	2021	View details
48	Analyzing the Performance of Bidirectional Transformer and Generalized Autoregressive Permutation Pre-trained Language Models for Sentiment Classification task	Annals of the Romanian Society for Cell Biology	2021	View details
49	Diagnosis of Cervical Cancer based on Ensemble Deep Learning Network using Colposcopy Image	BioMed Research International	2021	View details
50	Space Vector PWM Based Matrix Converter With Wind energy conversion system Using Doubly fed induction generator	International journal of aquatic science	2021	View details
51	Vulnerability analysis of critical infrastructure network	International Journal of Critical Infrastructure Protection	2021	View details
52	Gastrointestinal tract diseases classification from wireless endoscopy images using pretrained deep learning model	Computational and Mathematical Methods in Medicine	2021	View details

53	Wireless HART stack using multiprocessor technique with laxity algorithm	Bulletin of Electrical Engineering and Informatics	2021	View details
54	Eco-Friendly Regenerative Burners: Global Effects & Significance	international journal of aquatic science	2021	View details
55	A Study on customer loyalty in online C2C platform	Flusser Studies	2021	View details
56	A Study on antecedent factors driving customer retention in B2C market place through online platform interactions	Turkish Online Journal of Qualitative Inquiry	2021	View details
57	A Study on relationship between Self efficacy and academic efficacy in PG Students with reference to Kerala	Natural volatile & Essential oils Journal	2021	View details
58	Employees Perception and Experiences on Working from Home Culture during COVID 19 Lockdown	Design Engineering	2021	View details
59	Study on factors influencing effectiveness of learning during COVID 19	Turkish Journal of Computer and Mathematics Education	2021	View details
60	Biochar_Added Cementitious Materials-A	Sustainability	2021	View details

	Review on Mechanical, Thermal and Environmental Properties			
61	Customer attitude and satisfaction towards investment in life insurance with special reference to Ernakulum city	Zeichen Journal	2020	View details
62	Socio-economic & demographic determinants that motivating to purchase health insurance with special reference to IT professionals in Kerala & Development(IJRD)	EPRA International Journal of Research & Development (IJRD)	2020	View details
63	Comparative Study of Two Queuing Inventory Models with Buffer, Retrials and Different Service Rates	AIP Conference Proceedings	2020	View details
64	Survey on Load Balancing & Future Research Avenues in Routing Protocol for Low Power Lossy Networks in IoT Networks	International Journal of Advanced Science and Technology (IJAST)	2020	View details
65	A Compact Microstrip Quadband Bandpass Filter using Six Mode Resonator and a Hairpin Resonator	International Journal of Advanced Science and Technology (IJAST)	2020	View details
66	Area Optimized Low Noise Amplifier for Narrowband Receiver Applications	International Journal of Microwave and Optical Technology (IJMOT)	2020	View details

67	Ternary Content Addressable Memory	International Journal of Engineering & Advanced Technology (IJEAT)	2020	View details
68	ADMS-Automatic Diabetic Management System	International Journal of Engineering & Advanced Technology (IJEAT)	2020	View details
69	Comparative study of LBPH and HAAR features in Real time Recognition under Varying Light Intensities	International Journal of Engineering & Advanced Technology (IJEAT)	2020	View details
70	Multi Terrain Surveillance Drone	International Journal of Engineering & Advanced Technology (IJEAT)	2020	View details
71	Chlad Apock-Iot Based Security Lock Safety at Your Hands	International Journal of Engineering & Advanced Technology (IJEAT)	2020	View details
72	Modified Anpr using Neural Networks	International Journal of Engineering & Advanced Technology (IJEAT)	2020	View details
73	DCRL-RPL: Dual Context based Routing and Load Balancing in RPL for IoT Networks	IET Communications	2020	View details

74	Super-Resolution Based Automatic Diagnosis of Retinal Disease for Clinical Applications	Neural Processing Letters	2020	View details
75	Quantitative and Qualitative analysis of school towards the education of Muslim girls	Studies in Indian Place Names Journal	2020	View details
76	Vehicular Adaptive Cruise Control Using Laguerre Functions Model Predictive Control	Advances in Intelligent Systems and Computing, vol 1039. Springer, Cham, AISC, pp 201-208	2019	View details
77	New Parameters on Inverse Domination	IJMET	2019	View details
78	1-Fair Dominating Sets in Some Class of Graphs	IJATC	2019	View details
79	2-Fair Dominating Sets in Some Class of Graphs	IJATC	2019	View details
80	Photonic Generation of Millimeter Wave in Radio-over-Fiber Transmission System	International Journal of Recent Technology and Engineering(IJRTE)	2019	View details

81	A Study on Factors Influencing Employees on Adoption of Digital Transformation Initiation by Employers	International Journal of Business Analytics and Intelligence	2019	View details
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