

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

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Calendar Year 2023		
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Preamble

In the dynamic landscape of modern academia, the assessment of research output has become an integral element in evaluating the contributions of educators within educational institutions. This report is dedicated to examining the metric "Number of Research Papers Published per Teacher" in scholarly journals, a key indicator that underscores the research productivity of educators. While quantitative, this metric encapsulates a wealth of information about the engagement of teachers in the knowledge creation process, the impact of their work, and the overall vitality of academic institutions. By embarking on this research journey, we aim to uncover trends, patterns, and implications that can offer valuable insights into the diverse dimensions of research productivity among teachers.

In the qualitative analysis of the Srinivas Institute of Technology research, the thrust is given to publish quality research articles indexed in UGC care list journals and above. Moreover, the factors that influence this productivity include research across various demographics, such as core engineering in the engineering departments, multidisciplinary research across the circuit and non-circuit branches and research in life sciences and classical science. Through our findings, we aspire to provide a comprehensive view of the current state of research output among educators, enabling us to make informed recommendations for fostering a culture of research, advancing educational policy, and enhancing the overall quality of academia. This research endeavor serves as a testament to the enduring commitment of educators and institutions to the pursuit of knowledge, innovation, and excellence in the ever-evolving world of higher education.

Summary Sheet

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

Title of the paper	Name of the author/s	Department of the teacher	Name of Journal	Calendar year of publication	ISSN Number	Link to the recognition in UGC enlistment of the Journal /Digital Object Identifier (doi) number		
						Link to website of the Journal	Link to article / paper / abstract of the article	Is it listed in UGC Care list
A critical assessment of significant developments in wind turbine performance	Dr. Ramakrishna N. Hegde	Automobile Engineering	Taylor and Francis, Q2 Journal,	2023	0143-0750	https://www.tandfonline.com/	https://www.tandfonline.com/doi/full/10.1080/01430750.2023.2267568	Yes
GO/CuO Nanohybrid-Based Carbon Dioxide Gas Sensors with an Arduino Detection Unit	Dr. Prasad Puthiyillam	Chemistry	ACS Publication	2023	0002-7863	https://pubs.acs.org/	https://pubs.acs.org/doi/full/10.1021/acsmega.3c02598	Yes
Drug Release Kinetics In Biocompatible Xanthan Gum (Xg)/Methyl Cellulose (Mc) Blend – Γ -Fe ₂ O ₃ Nanocomposites	Dr. Prasad Puthiyillam	Chemistry	Journal of Southwest Jiaotong University	2023	0258-2724	https://jsju.org.cn/index.php	https://jsju.org.cn/pdf/02/270.pdf	Yes
Drug Release Kinetics In Biocompatible Guar Gum (Gg) /Hydroxypropyl Methyl Cellulose (Hpmc) Blend - Maghemite Nanocomposites	Dr. Prasad Puthiyillam	Chemistry	Journal of Southwest Jiaotong University	2023	0258-2724	https://jsju.org.cn/index.php	https://jsju.org.cn/pdf/02/263.pdf	Yes
Investigating Drug Release Kinetics from Biocompatible Guar Gum (GG)/Methyl Cellulose (MC) Blend - γ -Fe ₂ O ₃	Dr. Prasad Puthiyillam	Chemistry	European Chemical Bulletin	2023	2063-5346	https://www.eurchembull.com/	https://www.eurchembull.com/uploads/paper/223a3af26fcd5fee02e65b2b558f77aa.pdf	Yes

Nanocomposites								
Compatibility Studies of Guar Gum (GG)/Methyl Cellulose (MC) Blend-Zinc Oxide (ZnO) Nanocomposites	Dr. Prasad Puthiyillam	Chemistry	European Chemical Bulletin	2023	2063-5346	https://www.eurchembull.com/	https://www.eurchembull.com/uploads/paper/eb58f7739e001558057d6892bb78444c.pdf	Yes
A comparative analysis of exergy using dual blends of biodiesel in a DI engine	Dr. Ramakrishna N. Hegde	Automobile Engineering	Elsevier's Materials Today: Proceedings	2023	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://www.sciencedirect.com/science/article/abs/pii/S221478532206881X	Yes
Mechanical characterisation and microstructure study of Al-Zn alloy processed by equal channel angular pressing combined with heat treatment, Advances in Materials and Processing Technologies	Dr. Lokesh K S	Aeronautical Engineering	Taylor and Francis, Q2 Journal,	2023	2374-0698	https://www.tandfonline.com/	https://www.tandfonline.com/doi/full/10.1080/2374068X.2023.2184573?src=	Yes
Analysis of design parameters of fuel injector used in liquid propellant rocket engine	Dr. Lokesh K S	Aeronautical Engineering	Elsevier's Materials Today: Proceedings	2023	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://doi.org/10.1016/j.matpr.2023.05.166	Yes
Impact of fibre orientation on mechanical properties of GFRP composites,	Dr. Lokesh K S	Aeronautical Engineering	Elsevier's Materials Today: Proceedings	2023	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://doi.org/10.1016/j.matpr.2023.03.754	Yes
Investigative Studies on Performance Behavior on an IDI diesel engine	Dr. Ramakrishna N. Hegde	Automobile Engineering	Journal of Mechanical Engineering	2023	1823-5514	https://jmeche.uitm.edu.my/	https://jmeche.uitm.edu.my/wp-content/uploads/2023/01/5	Yes

with a Geometrically modified swirl chamber using biodiesel blends							%20JMECHE-2022-0040.R1.pdf	
Enhancement of Brain Magnetic Resonance Images Using Cascade of Notch Filter and Linear Transformation Methods	Shivaprasad B J	Computer Science and Engineering	Pattern Recognition and Image Analysis,	2023	1054-6618	https://www.springer.com/journal/11493	https://link.springer.com/article/10.1134/S1054661822040137	Yes
Advanced Metering Infrastructure using IOT	Mamatha	Computer Science and Engineering	International Journal of Innovative Science and Research Technology	2023	2456-2165	https://www.ijisrt.com/	https://www.ijisrt.com/assets/upload/files/IJSRT23MAY1614.pdf	Yes
Artificial Intelligence In Drug Discovery And Development-A Review	Deeksha/Chetan	Electronics and Communication Engineering	International Journal of Scientific research in Engineering and Management	2023	2582-3930	https://ijsrem.com/	https://ijsrem.com/download/artificial-intelligence-in-drug-discovery-and-development-a-review/	Yes
Solar Harvesting Machine	Harshith K	Electrical and Electronics Engineering	International Journal Of Creative Research Thoughts	2023	2320-2882	https://ijcrt.org/	https://ijcrt.org/download.php?file=IJCRT2306330.pdf	Yes
A Greener World On The Horizon	Harshith K	Electrical and Electronics Engineering	TIJER-International Research Journal	2023	2349-9249	https://tjier.org/index.php	https://www.tjier.org/papers/TIJER2306018.pdf	Yes
Paper Agri-Innovation: Incorporating Machine Learning in Plant Disease Detection and Resource Allocation	Lokesha B	Electrical and Electronics Engineering	TIJER-International Research Journal	2023	2349-9249	https://tjier.org/index.php	https://www.tjier.org/papers/TIJER2305450.pdf	Yes
Comparison of Transfer Learning algorithm in predicting	Dr. Shashidhar Kini K	Master of Computer Applications	International Conference on Advances in	2023	2169-3536	https://ieeexplore.ieee.org/Xplore/home.jsp	https://ieeexplore.ieee.org/document/10170318	Yes

Alzheimer's disease			Electronics, Communication, Computing and Intelligent Information Systems ICAeronautical Engineering CIS					
A Review Of Agility Enhancement Factors On Micro And Small – Scale Industries	Sathya Prakash A	Mechanical Engineering	Industrial Engineering Journal	2023	0970-2555	http://www.journal-iiie-india.com/	http://www.journal-iiie-india.com/1_apr_23/296_online.pdf	Yes
A Case Study to Determine OEE – A KPI Representing the Overall Productivity of a Machine	Dr Raghavendra M J	Mechanical Engineering	Journal of Mines, Metals and Fuels	2023	0022-2755	https://www.informaticsjournals.com/index.php/jmmf	https://www.informaticsjournals.com/index.php/jmmf/article/view/33720/22373	Yes
CFD Analysis of a Diesel Generator Exhaust System to Reduce Back Pressure	Dr. Shankar K S.	Mechanical Engineering	Journal Of Advanced Applied Scientific Research	2023	2454-3225	http://www.joaasr.com/index.php/joaasr/index	http://www.joaasr.com/index.php/joaasr/article/view/636	Yes
Fabrication and Characterization of Bio composite fiber boards from Areca leaf Sheaths	Dr. Suryanarayana K	Physics	Journal of Materials And Manufacturing	2023	2822-6054	https://jmatman.org/index.php/journal/index	https://doi.org/10.5281/zenodo.8023070	Yes
Role of Disruptive Technology in Tourism Industry, Leading to Life Style Transforming - A Study with Special Reference to Coorg	Dr. Veena Santhosh Rai	Master of Business Administration	International Journal of Trend in Scientific Research and Development (IJTSRD)	2023	2456 – 6470	https://www.ijtsrd.com/	https://www.ijtsrd.com/papers/ijtsrd52777.pdf	Yes
Improved Invasive Weed Social Ski-Driver Optimization-Based Deep	Dr.Padmanayana	Computer Science and	International Journal of Image and Graphics	2023	0219-4678	https://www.worldscientific.com/	https://www.worldscientific.com/doi/epdf/10.1142/S021	Yes

Convolution Neural Network for Diabetic Retinopathy Classification		Engineering					9467825500123	
An Image Encryption Model Using Hyper Chaotic Map Dependent Grey-Intelligent Optimization	Dr. Anoop B K	Artificial Intelligence and Machine Learning	Electrical and Electronics Engineering	2023	2169-3536	https://ieeexplore.ieee.org/Xplore/home.jsp	https://ieeexplore.ieee.org/document/10266264	Yes
Optimized Screening of Glaucoma using Fundus Images and Deep Learning	Dr. Anoop B K	Artificial Intelligence and Machine Learning	International Journal on Recent and Innovation Trends in Computing and Communication	2023	2321-8169	https://ijritcc.org/index.php/ijritcc	https://ijritcc.org/index.php/ijritcc/article/view/7644/6332	Yes
Developing A Hybrid Approach For Enhanced Early Acute Glaucoma Screening	Dr. Anoop B K	Artificial Intelligence and Machine Learning	European Chemical Bulletin	2023	2063-5346	https://www.eurchembull.com/	https://www.eurchembull.com/uploads/paper/92426554881d7df8a8477e51fdead16e.pdf	Yes
Review of Security Issues in Mobile Ad Hoc Networks	Dr. Anoop B K	Artificial Intelligence and Machine Learning	Computer Integrated Manufacturing Systems	2023	1006-5911	http://cims-journal.com/index.php/CN/index	http://cims-journal.com/index.php/CN/article/view/431	Yes
A Survey on DR detection by Segmenting Blood Vessels and Lesions from Fundus Colour Images with Deep Learning Techniques	Dr. Anoop B K	Artificial Intelligence and Machine Learning	Computer Integrated Manufacturing Systems	2023	1006-5911	http://cims-journal.com/index.php/CN/index	http://cims-journal.com/index.php/CN/article/view/622	Yes
Cloud Computing Based Image Processing For Secure Data Transmission	Dr. Anoop B K	Artificial Intelligence and Machine Learning	Journal of Data Acquisition and Processing	2023	1004-9037	https://sijcycl.cn/	https://sijcycl.cn/article/view-2023/pdf/02312.pdf	Yes
An Exploratory Study on Ensemble Methods used	Dr. Anoop B K	Artificial Intelligence and Machine Learning	Tamilnadu Scientific Research	2023	0976 – 0997	https://tnsroindia.org.in/index.html	https://www.researchgate.net/publication/369912696_A	Yes

for Secure Data Transmission		e Learning	Organization				n Exploratory Study on Ensemble Methods used for Secure Data Transmission	
Prediction of health diseases using soft computing techniques : A comprehensive review	Dr. Anoop B K	Artificial Intelligence and Machine Learning	AIP Conference Proceedings	2023	1551-7616	https://pubs.aip.org/aip/acp/article-abstract/2477/1/030037/2892624/Prediction-of-health-diseases-using-soft-computing?redirectedFrom=PDF	Yes	
Implementation of Deep Learning based Automated Diagnosis of Glaucoma Using Digital Retinal Fundus Images	Dr. Anoop B K	Artificial Intelligence and Machine Learning	International Journal of Contemporary Medicine	2023	2321-1032	https://ijop.net/index.php/ijocm/article/view/3415/2878	Yes	
Improved Invasive Weed Social Ski-Driver Optimization-Based Deep Convolution Neural Network for Diabetic Retinopathy Classification	Dr. Anoop B K	Artificial Intelligence and Machine Learning	International Journal of Image and Graphics	2023	0219-4678	https://www.worldscientific.com/doi/epdf/10.1142/S0219467825500123	Yes	
Hypervolume Sen Task Scheduling and Multi Objective Deep Auto Encoder based Resource Allocation in Cloud	Dr. Anoop B K	Artificial Intelligence and Machine Learning	International Journal on Recent and Innovation Trends in Computing and Communication	2023	2321-8169	https://ijritcc.org/index.php/ijritcc/article/view/6303/5751	Yes	
Multi-objective load balancing in cloud infrastructure through fuzzy based decision making and genetic algorithm based optimization	Dr. Anoop B K	Artificial Intelligence and Machine Learning	IAeronautical Engineering S International Journal of Artificial Intelligence	2023	2089-4872	https://ijai.iaescore.com/index.php/IJAI/index	Yes	

Drug Release Kinetics In Biocompatible Xanthan Gum (Xg)/Methyl Cellulose (Mc) Blend – Γ -Fe ₂ O ₃ Nanocomposites	Dr. Shrinivasa Mayya D	Mechanical Engineering	Journal of Southwest Jiaotong University	2023	0258-2724	https://jsju.org.cn/index.php	https://jsju.org.cn/pdf/02/270.pdf	Yes
Drug Release Kinetics In Biocompatible Guar Gum (Gg) /Hydroxypropyl Methyl Cellulose (Hpmc) Blend - Maghemite Nanocomposites	Dr. Shrinivasa Mayya D	Mechanical Engineering	Journal of Southwest Jiaotong University	2023	0258-2724	https://jsju.org.cn/index.php	https://jsju.org.cn/pdf/02/263.pdf	Yes
Investigating Drug Release Kinetics from Biocompatible Guar Gum (GG)/Methyl Cellulose (MC) Blend - γ -Fe ₂ O ₃ Nanocomposites	Dr. Shrinivasa Mayya D	Mechanical Engineering	European Chemical Bulletin	2023	2063-5346	https://www.eurchembull.com/	https://www.eurchembull.com/uploads/paper/223a3af26fcd5fee02e65b2b558f77aa.pdf	Yes
Compatibility Studies of Guar Gum (GG)/Methyl Cellulose (MC) Blend-Zinc Oxide (ZnO) Nanocomposites	Dr. Shrinivasa Mayya D	Mechanical Engineering	European Chemical Bulletin	2023	2063-5346	https://www.eurchembull.com/	https://www.eurchembull.com/uploads/paper/eb58f7739e001558057d6892bb78444c.pdf	Yes
Analysis of design parameters of fuel injector used in liquid propellant rocket engine	Dr. Shrinivasa Mayya D	Mechanical Engineering	Elsevier's Materials Today: Proceedings	2023	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://doi.org/10.1016/j.matpr.2023.05.166	Yes
Impact of fibre orientation on mechanical properties of GFRP composites,	Dr. Shrinivasa Mayya D	Mechanical Engineering	Elsevier's Materials Today: Proceedings	2023	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://doi.org/10.1016/j.matpr.2023.03.754	Yes

A Review Of Agility Enhancement Factors On Micro And Small – Scale Industries	Dr. Shrinivasa Mayya D	Mechanical Engineering	Industrial Engineering Journal	2023	0970-2555	http://www.journal-iiie-india.com/	http://www.journal-iiie-india.com/1_apr_23/296_online.pdf	Yes
Drug Release Kinetics In Biocompatible Xanthan Gum (Xg)/Methyl Cellulose (Mc) Blend – Γ -Fe2O3 Nanocomposites	Dr. Sumana V. S	Chemistry	Journal of Southwest Jiaotong University	2023	0258-2724	https://jsju.org.cn/index.php	https://jsju.org.cn/pdf/02/270.pdf	Yes
Drug Release Kinetics In Biocompatible Guar Gum (Gg) /Hydroxypropyl Methyl Cellulose (Hpmc) Blend - Maghemite Nanocomposites	Dr. Sumana V. S	Chemistry	Journal of Southwest Jiaotong University	2023	0258-2724	https://jsju.org.cn/index.php	https://jsju.org.cn/pdf/02/263.pdf	Yes
Investigating Drug Release Kinetics from Biocompatible Guar Gum (GG)/Methyl Cellulose (MC) Blend - γ -Fe2O3 Nanocomposites	Dr. Sumana V. S	Chemistry	European Chemical Bulletin	2023	2063-5346	https://www.eurchembull.com/	https://www.eurchembull.com/uploads/paper/223a3af26fcd5fee02e65b2b558f77aa.pdf	Yes
A comparative analysis of exergy using dual blends of biodiesel in a DI engine	Dr. Gangadhara Rao	Aeronautical Engineering	Elsevier's Materials Today: Proceedings	2023	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://www.sciencedirect.com/science/article/abs/pii/S221478532206881X	Yes
An Image Encryption Model Using Hyper Chaotic Map Dependent Grey-Intelligent Optimization	Parvathraj K M M	Artificial Intelligence and Machine Learning	IElectrical and Electronics Engineering	2023	2169-3536	https://ieeexplore.ieee.org/Xplore/home.jsp	https://ieeexplore.ieee.org/document/10266264	Yes
A Survey on DR detection by Segmenting Blood Vessels	Dr. Padmanayana	Computer Science and	Computer Integrated Manufacturing Systems	2023	1006-5911	http://cims-journal.com/index	http://cims-journal.com/index.php/CN/article/view/622	Yes

and Lesions from Fundus Colour Images with Deep Learning Techniques		Engineering				php/CN/index		
A comparative analysis of exergy using dual blends of biodiesel in a DI engine	Dr Praveen Shenoy	Aeronautical Engineering	Elsevier's Materials Today: Proceedings	2023	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://www.sciencedirect.com/science/article/abs/pii/S221478532206881X	Yes
Cloud Computing Based Image Processing For Secure Data Transmission	Parvathraj K M M	Artificial Intelligence and Machine Learning	Journal of Data Acquisition and Processing	2023	1004-9037	https://sijciycl.cn/	https://sijciycl.cn/article/view-2023/pdf/02312.pdf	Yes
Fabrication and Characterization of Bio composite fiber boards from Areca leaf Sheaths	Dr. Lokesh K S	Aeronautical Engineering	Journal of Materials And Manufacturing	2023	2822-6054	https://jmatman.org/index.php/journal/index	https://doi.org/10.5281/zenodo.8023070	Yes
A comparative analysis of exergy using dual blends of biodiesel in a DI engine	Jagadeesh Bantwal	Aeronautical Engineering	Elsevier's Materials Today: Proceedings	2023	2214-7853	https://www.sciencedirect.com/journal/materials-today-proceedings	https://www.sciencedirect.com/science/article/abs/pii/S221478532206881X	Yes
Condition monitoring of gearbox	Nithin Joshuva	Marine Engineering	Journal of advanced applied scientific research (JOAASR)	2023	2454-3225	http://www.joaasr.com/index.php/joaasr/index	http://www.joaasr.com/index.php/joaasr/article/view/631	Yes
Review on Electric Vehicle Technologies	Girish A R	Automobile Engineering	Journal of advanced applied scientific research (JOAASR)	2023	2454-3225	http://www.joaasr.com/index.php/joaasr/index	http://www.joaasr.com/index.php/joaasr/article/view/634	Yes
Automatic Valve Operation for Bunkering	Sunil Prakash Rodrigues	Marine Engineering	Journal of advanced applied scientific research (JOAASR)	2023	2454-3225	http://www.joaasr.com/index.php/joaasr/index	http://www.joaasr.com/index.php/joaasr/article/view/635	Yes
CFD Analysis of a Diesel	Dr. Shankar K S	Mechanical	Journal of advanced	2023	2454-3225	http://www.joaasr	http://www.joaasr.com/index	Yes

Generator Exhaust System to Reduce Back Pressure		Engineering	applied scientific research (JOAASR)			.com/index.php/joaasr/index	x.php/joaasr/article/view/636	
Design and Fabrication of Earth Auger with trolley	Dr. Raghavendra M J	Mechanical Engineering	Journal of advanced applied scientific research (JOAASR)	2023	2454-3225	http://www.joaasr.com/index.php/joaasr/index	http://www.joaasr.com/index.php/joaasr/article/view/638	Yes
Designing of voice-controlled drone using BT-voice control for Arduino	Dr. Praveen Shenoy	Aeronautical Engineering	Journal of advanced applied scientific research (JOAASR)	2023	2454-3225	http://www.joaasr.com/index.php/joaasr/index	http://www.joaasr.com/index.php/joaasr/article/view/639	Yes
Optimization of Heat Treatment parameters to facilitate machining of SAE4340 steel without compromise on Mechanical properties	Sandesh M. Prabhu	Mechanical Engineering	Journal of advanced applied scientific research (JOAASR)	2023	2454-3225	http://www.joaasr.com/index.php/joaasr/index	http://www.joaasr.com/index.php/joaasr/article/view/640	Yes
Formulation And Evaluation Of Eupatorium Odoratum Herbal Ointment	Dr. Suryanarayana K	Physics	European Journal of Biomedical and Pharmaceutical Sciences (EJBPS)	2023	2349-8870	https://www.ejbps.com/ejbps/index	https://www.ejbps.com/ejbps/abstract_id/9775	Yes
Assessing financial sustainability as a key indicator for business transformation of microfinance institutions: A study in India	Rashmi	Master of Business Administration	BOHR International Journal of Advances in Management Research	2023	2583-2026	https://journals.bohrpub.com/index.php/bijsci	https://journals.bohrpub.com/index.php/bijamr/article/view/400/3173	Yes
Chatbot For College Campus	Clitus Neil D'souza	Electronics and Communication Engineering	International Journal Of Creative Research Thoughts	2023	2320-2882	https://ijcrt.org/	https://www.ijcrt.org/papers/IJCRTX020010.pdf	Yes