



Pradnya Niketan Education Society's
**NAGESH KARAJAGI ORCHID COLLEGE OF
 ENGINEERING & TECHNOLOGY, SOLAPUR**

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3.3 Research Publications and Awards

3.3.1 Number of research papers published per teacher, in the Journals notified on UGC CARE List during the last five years.

Links papers published in Journals listed in UGC CARE list

Academic Year	Title of paper	Name of the author/s	Link
2018-19	Two drive modes for the vehicle	Dr. Shriniwas Metan	https://portal.issn.org/resource/ISSN/2229-5518
	Design & Fabrication of fertilizer Spreading Machine	B. R. Birajdar	https://www.ijraset.com/files/serve.php?FID=18277
	Performance evaluation of air conditioner using earth air tunned heat exchanger	S.S.Kale	https://ijisrt.com/wp-content/uploads/2018/10/IJISRT18OC50.pdf
	A review on enhancement of pool boiling heat transfer using different structured surface with nanofluids	S.S.Kale	https://www.ijariit.com/manuscripts/v4i3/V4I3-1475.pdf
	Analysis of solar Cooker using sensible energy storing material	C.V. Papade	https://www.irjet.net/archives/V5/i7/IRJET-V5I759.pdf
	Analysis of Solar Operated Intermittent Vapour Absorption Refrigeration System	C.V. Papade	https://ijettjournal.org/archive/ijett-v60p220
	Development of Fixture for Bracket Weldment: A Review	C.V. Papade	http://ijettjournal.org/2018/volume-58/number-2/IJETT-V58P211.pdf
	Analysis of Vapour	C.V. Papade	https://ipasj.org/IJME/Volume6Issue5/IJME-

Compression Refrigeration System Using Matrix Heat Exchanger		2018-05-27-2.pdf
Investigation of dimensionless parameters and geometry effects on heat-transfer characteristics of liquid sodium flowing over a flat plate	Mohammad Samee AD	https://onlinelibrary.wiley.com/journal/26884542
Performance Enhancement of Air Conditioner Using Earth Air Tunnel Heat Exchanger	D. D. Bhoge	https://www.irjet.net/archives/V5/i7/IRJET-V5I7259.pdf
Performance Evaluation of Air Conditioner Using Earth Air Tunnel Heat Exchanger	Prof.D.D.Bhoge	https://ijisrt.com/wp-content/uploads/2018/10/IJISRT18OC50.pdf
Enhancement of thermal efficiency and cost effectiveness by development of melting furnace by revamping and troubleshooting fuel-fired furnace	Dr.B.K.Sonage	https://www.ijisrt.com/performance-evaluation-of-air-conditioner-using-earth-air-tunnel-heat-exchanger
Study of Surface Temperature distribution of plain tube & Rifled tube by CFD analysis	Dr. B. K. Sonage	https://www.irjet.net/archives/V5/i2/IRJET-V5I214.pdf
Comparison of Heat transfer performance of plain tube & rifled tube by experimentation & CFD analysis	Dr. B. K. Sonage	http://www.ijetsr.com/images/short_pdf/1515481393_75-84-ieim134_ijetsr.pdf
A Review of Factors Influencing Foundation Stability of Tall Structures	Shalaka Nirantar	https://www.internationaljournalsrsg.org/IJCE/paper-details?Id=377

	Alternative Forms of an Industrial Ware House using PEB and CFS Sections	Kankuntala Ashok Y.	https://ijisrt.com/wp-content/uploads/2018/07/Alternative-Forms-of-an-Industrial-Ware-House-using-PEB-and-CFS-Sections-1.pdf
	Evaluation of Physical and Chemical Properties of OPC and PPC Cement	S.S.Jahagirdar, V.K.Patki	https://www.ijrte.org/wp-content/uploads/papers/v8i2S11/B11380982S1119.pdf
	Processing Temperature Dependent Chemiresistive performance of Spin-Coated Cerium Oxide Films". Materials Chemistry and Physics	G.D. Khuspe	https://www.sciencedirect.com/science/article/abs/pii/S0254058418310381
2019-20	Stress analysis of infinite laminated composite plate with elliptical cutout under different in plane loadings in hygrothermal environment	Ashok Magar	https://www.degruyter.com/document/doi/10.1515/cls-2021-0001/html
	Moments around elliptical hole in a symmetric laminated composite plate under hygrothermal environment	Ashok Magar	https://www.sciencedirect.com/science/article/abs/pii/S221478532038069X?via%3Dihub
	Performance analysis of C.I. Engine by using two oils (Jatropha oil & Methanol) blended with Diesel as alternative fuel: a review	Prof. S. S. Kale	https://www.irjet.net/archives/V6/i6/IRJET-V6I6488.pdf
	Performance Evaluation of IC Engine with Preheated Diesel	Prof. S. S. Kale	https://www.ijisrt.com/performance-evaluation-of-ic-engine-with-preheated-diesel
	Performance Evaluation of IC Engine with Preheated Fuels – A Review	Prof. S. S. Kale	https://www.irjet.net/archives/V6/i4/IRJET-V6I41045.pdf

Thermal management of modern electric vehicle battery systems (MEVBS)	D. Mohammed Samee	https://www.springer.com/journal/10973
Development and calibration of modified Parallel plate method for measurement of thermal conductivity of liquids: A review	B. K. Sonage	https://www.irjet.net/archives/V6/i6/IRJET-V6I6291.pdf
Synthesis and characterization of zinc oxide green nanoparticles	Sonage B K	http://www.jetir.org/papers/JETIR1906B73.pdf
Assessment of Thermal Conductivity of Liquids by Modified Parallel Plate Method	BK Sonage	jetir.org/view?paper=JETIR1906C95
Experimental Investigations of Developed Solar Still for Increment in Efficiency and Rate of Distillate	Basgonda K. Sonage	https://www.iieta.org/journals/ijht/paper/10.18280/ijht.370213
Evaluation of Physical and Chemical Properties of OPC and PPC Cement	Dr. Shrinivas Metan,	https://www.ijrte.org/wp-content/uploads/papers/v8i2S11/B11380982S1119.pdf
Anti-Glare Headlamp a Safe Option for Better Vision to the Rider	Shrinivas S. Metan, Vinayak K Patki	https://www.ijitee.org/wp-content/uploads/papers/v8i9S2/I11380789S219.pdf
Effect of spacing on thermal performance characteristics of Li-ion battery cells	M. S. Dafedar	https://link.springer.com/article/10.1007/s10973-018-7664-2
Effect of cladding on thermal behavior of nuclear fuel element with non-uniform heat generation	M. S. Dafedar	https://www.sciencedirect.com/science/article/abs/pii/S0149197018302658#:~:text=Due%20to%20difference%20in%20thermal,in%20fuel%20element%20to%20drop.
Optimal spacing in heat generating parallel plate channel:	D. Mohammed Samee	https://www.sciencedirect.com/journal/progress-in-nuclear-energy

	A conjugate approach		
	Steady and Transient State Analyses on Conjugate Laminar Forced Convection Heat Transfer	D. Mohammed Samee	https://link.springer.com/article/10.1007/s11831-018-09303-x
	Unsteady-state lumped heat capacity system design for tube furnace for continuous inline wire annealing process	Dr.B.K.Sonage	https://onlinelibrary.wiley.com/doi/abs/10.1002/htj.21411
	Comparative Study Of Multistoried Commercial Building With Flat Slab	Kankuntla Ashok Y	https://www.jetir.org/papers/JETIR1906E05.pdf
	Improvement of Lake Water Quality Index using Nitrolite Mineral	Thavare Ramkrishna M	https://www.jetir.org/papers/JETIR1906981.pdf
	Comparative Study of Different Composting Methods	Maske Ravi G.	https://www.jetir.org/papers/JETIR1906A99.pdf
	Improvement of Subgrade Soil characteristics by utilizing Lime and rice husk ash	Salimath Veeresh S., Farooq Ahmed Maniyar	https://www.ijert.org/improvement-of-subgrade-soil-characteristics-by-utilizing-lime-and-rice-husk-ash
2020-21	Challenges Faced While Designing Body in White	Aditya Dhobale	https://www.ijraset.com/files/serve.php?FID=37916
	Optimization of Thermal and Structural Design in Lithium-Ion Batteries to Obtain Energy Efficient Battery Thermal Management System (BTMS): A Critical Review	A. D. Mohammed Samee	https://link.springer.com/article/10.1007/s11831-021-09571-0
	Battery thermal management: An optimization study of parallelized conjugate numerical analysis using Cuckoo search and Artificial bee	A. D. Mohammed Samee	https://doi.org/10.1016/j.ijheatmasstransfer.2020.120799

colony algorithm		
Six Sigma: Literature Review and Methodologies to Improve Implementation	Shriniwas S. Metan	http://testmagzine.biz/index.php/testmagzine/issue/view/8
Optimum spacing between grooved tubes: An experimental study	A. D. Mohammed Samee	https://link.springer.com/article/10.1007/s12206-019-1244-7
Urban Water Distribution Network Failure Prediction Using Artificial Intelligence	Shriniwas Metan, Shrikant Jahagirdar, Vinayak Patki	http://www.testmagzine.biz/index.php/testmagzine/article/view/2165
Smart pilgrim center: iot based security system at pilgrim center	Mithun Patil	https://www.ilkogretim-online.org/index.php?iid=2021-20-4.000&jid=218
Fractional squirrel–dolphin echolocation with deep belief network for network-controlled vertical handoff in disparate and heterogeneous wireless network	Mithun Patil	https://onlinelibrary.wiley.com/doi/10.1002/dac.4893
Anti-Glare Headlamp a Safe Option for Better Vision to the Rider	V. K. Patki	https://www.ijitee.org/wp-content/uploads/papers/v8i9S2/I11380789S219.pdf
Evaluation of Physical and Chemical Properties of OPC and PPC Cement	Jahagirdar S S, Patki V K	https://www.ijrte.org/wp-content/uploads/papers/v8i2S11/B11380982S1119.pdf
Urban Water Distribution Network Failure Prediction using Artificial Intelligence	Patki V K, Jahagirdar S	https://testmagzine.biz/index.php/testmagzine/article/view/2165
Assessment of Water Quality Index for Hipparga Lake in Solapur City.	Jahagirdar S S	http://www.ijirset.com/upload/2019/june/92_ASSESSMENT_NEW.pdf

Development of water quality index for Godavari River (India) based on fuzzy inference system	V. K. Patki	https://www.sciencedirect.com/science/article/abs/pii/S2352801X19304254
Prefabricated Construction Technology for Multistoreyed Building	Kankuntla Ashok Y., Rajgiri D. N., Maske R. G., Kulkarni S. R.	https://www.ijitee.org/wp-content/uploads/papers/v9i3/D9058029420.pdf
On Field Performance Analysis of Shunt Compensation of an Agricultural feeder using Power Analyzer	Irfan Mujawar	https://sersc.org/journals/index.php/IJFGCN/article/view/37186
Newly synthesized triazole-based Schiff base ligands and their Co(II) complexes as antimicrobial and anticancer agents: Chemical synthesis, structure and biological investigations	Ubale Panchsheela Ashok	https://www.sciencedirect.com/journal/results-in-chemistry
Preparation, Spectroscopic Characterization, Theoretical Investigations, and In Vitro Anticancer Activity of Cd(II), Ni(II), Zn(II), and Cu(II) Complexes of 4(3H)-Quinazolinone-Derived Schiff Base	Panchsheela A. Ubale c	https://www.mdpi.com/1420-3049/25/24/5973
Feministic approaches in taslima nasreen's selected works	Jadhav Umakant Keshavrao	https://interactionsforum.com/new-academia
A study of dissent against religious extremism and conflicts in taslima nasreen's lajja	Jadhav Umakant Keshavrao	https://www.langlit.org/volume-7-issue-3/

2021-22	Comparative study of Aircraft wing orientation	Shrinivas Metan	https://www.ijera.com/papers/Online%20Certificate/Volume%2012%20No.4/Ser-3/IJERA-10.pdf
	Design and Analysis of Solar Operated Solar Panel Laminating Machine	C.V. Papade	https://www.ipasj.org/current.php?Jname=4
	A Review on Convective Heat Transfer Augmentation Using Non Metallic Insert	S. S. Kale, G. S. Bhosale	https://www.irjet.net/archives/V8/i3/IRJET-V8I3440.pdf
	CFD Analysis of Cooling Fan for Lathe Machine Operator	C.V. Papade	https://ipasj.org/issue1.php?vol=Volume9Issue1&Jname=4
	Design & Fabrication of Footstep Power generation	Prasad N. Kulkarni , Basavraj R. Birajdar , Mallikarjun B. Awate , Aditya S. Dhobale , Vaibhav P.Kulkarni	https://www.ijraset.com/fileserve.php?FID=34362
	Fuzzy Based Network Controlled Vertical Handover Mechanism for Heterogeneous Wireless Network	Mithun B. Patil	https://www.sciencedirect.com/science/article/abs/pii/S2214785321047581
	Development of water quality index for Godavari River (India) based on fuzzy inference system	Prof V K Patki	https://www.sciencedirect.com/science/article/abs/pii/S2352801X19304254
	Artificial Neural Network based water quality index (WQI) for river Godavari (India)	Prof V K Patki	https://www.sciencedirect.com/science/article/pii/S2214785321021192
	Recycle of textile mill sludge in different grades of concrete	S. S. Jahagirdar, V. K. Patki, G.J. Kulkarni	https://www.sciencedirect.com/science/article/pii/S2214785321022008
	Degradation of personal care product 2- Chloropyrine	Jahagirdar S. S, Patki V. K, G.J. Kulkarni	https://www.sciencedirect.com/science/article/pii/S2214785321019830?via%3Dihub

detected in surface water		
Prediction of water quality in municipal distribution system	Patki V. K, Jahagirdar S. S., G.J. Kulkarni	https://www.sciencedirect.com/science/article/pii/S2214785321019891
Grey water treatment by vegetated vermifilter: A low-cost material for rural sanitation in India	Patki V. K, Jahagirdar S. S., G.J. Kulkarni	https://www.sciencedirect.com/science/article/pii/S2214785321004867
Six Sigma: Literature Review and Methodologies to Improve Implementation	V. K. Patki	http://testmagzine.biz/index.php/testmagzine/article/view/3561
Studies on Optical, Structure, and Photoconductivity of Titanium Dioxide Thin Films Prepared by Chemical Bath Deposition Via Aqueous Route	Amit A. Kamble*, Panchsheela A. Ubale	https://onlinelibrary.wiley.com/doi/abs/10.1002/masy.202100020
Evaluation of in vitro anticancer, antimicrobial and antioxidant activities of new Cu(II) complexes derived from 4(3H)-quinazolinone: Synthesis, crystal structure and molecular docking studies	Panchsheela Ubale	https://www.sciencedirect.com/journal/journal-of-molecular-structure
In vitro anticancer activity of 4(3H)-Quinazolinone derived Schiff base and its Cu(II), Zn(II) and Cd(II) complexes: Preparation, X-ray structural, spectral characterization and theoretical	Panchsheela A. Ubale c	https://www.sciencedirect.com/science/article/abs/pii/S0020169320310458

	investigations		
	Nanofibers Synthesised from Jawar stem (Agro-waste) for removal of Cr (VI) from aqueous solution	Madhuri Ingale, Vinayak Patki	https://www.tandfonline.com/doi/abs/10.1080/03067319.2021.1966425
	2-chlorobenzaldehyde thiocarbohydrazone: a novel reagent for liquid-liquid extractive spectrophotometric determination of copper(II) from environmental and real samples	Ashwini V. Sadlapurkar	https://www.tandfonline.com/doi/abs/10.1080/03067319.2021.1912333
	Statistically designed extractive spectrophotometric determination scheme for bismuth(III) with 2-chlorobenzaldehyde thiocarbohydrazone: Analysis of environmental and real resources	Ashwini V. Sadlapurkar	https://www.sciencedirect.com/science/article/abs/pii/S240583002100152X
1	IOT BASED BLIND STICK WITH VOICE NOTIFICATION FOR PHYSICALLY CHALLENGED PEOPLE	Jivan Bhausheb Patil	https://jeitsm.com/
2	Power Generation By Using Vehicle Suspension System	Prof.Pawar D.D Prof. A.J.Mehta	https://jeitsm.com/
3	Design & Development of Filterless Air Purifier and Humidifier	Dr. Nitinchand. R. Patil, Mr. Pavan G. Palli, Mr. Girish A. Jangam,	https://www.irjet.net/archives/V9/i9/IRJET-V9I951.pdf
4	Binary salt phase change material for concentrated solar	Papade, C. V.	https://www.tandfonline.com/doi/abs/10.1080/15567036.2022.2096724

	cooker: storage and usages		
5	Characterization of Nano-Mixed PCM for Solar Cooker Application	Papade, C. V.	https://doi.org/10.1016/j.matpr.2023.03.415
6	Experimental Analysis of Solar Operated Automatic Mawa Making Machine	C.V.Papade, A.B.Shirsikar	https://www.ijrae.com/volume-9-issue-08
7	Design and Analysis of an Elliptical Bicycle for Outdoor Exercise	C.V.Papade ; Tanveer T. Shaikh	https://www.ijret.com/Papers/Vol-09-issue-04/6.B2023316.pdf
8	a review on solar operated milk pasteurization system	Papade, C. V.	https://www.irjet.net/archives/V9/i12/IRJET-V9I12112.pdf
9	An experimental investigation of different cooling pad materials of desert cooling pad material of desert coolers for less consumption of water and effective cooling	A.H. Kambale, Y. B. Patil, D. D. Bhoge	https://www.ijream.org/IJREAM_V08I10.html
10	A Compact Dual Band-Notched MIMO Diversity Antenna for UWB Wireless Applications	P.D. Bahirgonde	https://ijsrst.com/
11	Analysis of ECG Signal Classification Methods for Diagnosis of Heart Disease Using DWT and RBF Neural Network	P.D. Bahirgonde	https://ijsrst.com/
12	MICROCONTROLLE R BASED MATERIAL SHIFTING ROBOTIC ARM	Dhanashetti A.G., More S.S	https://www.pnrjournal.com/index.php/home/article/view/8191
13	Design And Implementation Of Real-Time Web-Based Vehicle Tracking System Using Sim	Ujwala A. Bongale	https://www.pnrjournal.com/index.php/home/article/view/9208

14	CLOUD BASED SMART DIGITAL WATER BILLING METER	Snehal R. Mulmane	https://www.pnrjournal.com/index.php/home/article/view/9209
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