



**Prof. Dr. Avinash S. Jagtap**  
M.Sc. Ph.D.  
PRINCIPAL

E-mail : principal.tccollege@gmail.com

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Anekant Education Society's

# TULJARAM CHATURCHAND COLLEGE

of Arts, Science and Commerce, Baramati - 413102.

Dist. Pune. Maharashtra, India.

Empowered Autonomous Status

Religious Minority Institute

NAAC Reaccredited 'A+' Grade, CGPA 3.55

NAAC-SSR

Cycle IV




2019 - 2024

## Criterion No. III. : Research, Innovations and Extension






3.4.3

Q<sub>n</sub>M





Details of research papers per teacher in CARE Journals notified on UGC website during the year 2020-21

Sr. No	Title of the Paper	Name of the Author(s)	Department of the Author(s)	Name of the Journal	Month and Year of publication	Links to uploaded papers
1	Effect of vermicompost and <i>Parthenium</i> compost on growth and yield of Brinjal ( <i>Solanum melongena</i> L. cv. Panchganga)	R. D. Chitale and B. S. Mali	Botany	Eco. Env. & Cons., 2020, 26 (1): 117-120	2020	
2	Comparison of accumulation of organic and inorganic osmolyte in <i>Trianthema portulacastrum</i> L. growing in saline and non-saline habitats	R. D. Chitale and B. S. Mali	Botany	Eco. Env. & Cons., 2020, 26 (1): 155-158	2020	
3	Studies on Antibacterial activity of Aegle Marmelos mediated Y2O3 nanoparticles	Sanjay Kale, Varsha Garule, Komal Jagtap, Dilip Thube	Chemistry	Journal of Emerging Technologies and Innovative Research	2021	



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4	Synthesis and characterization of new thiazole anchored N' Benzylidene Carbohydrazide and 1,3,4-oxadiazoles Derivatives by Conventional and Microwave Irradiation Methods	Vaibhav Landage	Chemistry	Indian J Hetero Chem, 27(4), 2020, 367-372. (Peer reviewed international Journal)	2020	
5	Synthesis and Implementation of Polycrystalline Ferrite Material for Smart Sensor Module”,	S. N. Patil, J. D. Deshpande, S. K. Tilekar, B. P. Ladgaonkar and A. M. Pawar	Electronics	Elsevier Editorial System Materials today Proceedings	2020	
6	A critical study on Smart Toilet for Swachh Bharat & Its Effectiveness	Aniket Kothawale Jagdish Deshpande Shital Gawade,	Electronics	Journal of Interdisciplinary Cycle Research	2021	
7	Design and Implementation of Multimodal Wheelchair for Paraplegia Patients using RF module	Shital Gawade, Aniket Kothawale Jagdish Deshpande	Electronics	Journal of Interdisciplinary Cycle Research	2021	
8	DROUGHT SEVERITY MODELING OF UPPER BHIMA RIVER BASIN, WESTERN INDIA USING GIS-AHP TOOLS FOR EFFECTIVE MITIGATION AND RESOURCE MANAGEMENT	N. D. Zagade and Dr. B. N. Umrikar	Geography	Journal: Natural Hazard, Springer Nature	2020	







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9	Demographic Susitanability of Pune city Maharashtra, India	Asaram Jadhav	Geography	Shodh Sarita, UGC approved care list journal	July to Sept. 2020	
10	Highly Dense Cities Catalyze to Spread CORONA virus in India	Asaram Jadhav and Sandeep Sable	Geography	Shodh Sarita, UGC approved care list journal	July to Sept. 2020	
11	Associated graphs of le-modules	Sadashiv Puranik, Sachin Ballal, Vilas Kharat	MATHEMATICS	International Journal of Next-Generation Computing - Special Issue, Vol. 12, No. 2, April 2021.	Apr-21	
12	Review on fuzzy set theory for solving various MCDM problems	Prakash Fulari, Dilip Ghule	Mathematics	Dogo Rangsang Research Journal	Jul-20	
13	A proposed fuzzy set theory for solving multi criteria decision making problems	Prakash Fulari, Dilip Ghule	Mathematics	Journal of the Maharaja Sayajirao University of Baroda	Mar-21	
14	Study of Fuzzy Set Theory and Multi Criteria Decision Making Problems	Prakash Fulari, Dilip Ghule	Mathematics	2nd International Conference on Technological Innovations in Engineering and Management (ICTIEM-21)	Apr-21	
15	Potential of ureolytic and calcite forming Bacillus cereus SSS1 in biocementation	Milind Gajbhiye, Shradha Chougule, Ravina Takale, Kanchan Kadam	Microbiology	Journal of Advanced Scientific Research 2020	Jun-20	
16	Lactococcus lactis subsp. cremoris of Plant Origin Produces Antifungal Cyclo-(Leu-Pro) and Tetradecanoic Acid	Milind Gajbhiye & Balu Kapadnis	MICROBIOLOGY	Indian Journal of Microbiology	Jun-20	






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17	Achlya bisexualis (Achlyaceae, Saprolegniales, Oomycota) – A new record for India	Dubey Manish K, Gajbhiye Milind H, Upadhyay Ram S	MICROBIOLOGY	Nowa Hedwigia	Aug-20	
18	Sol-gel assisted spinel Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> and its performance and stability as anode for long life Li-ion battery	Swapnil Rajoba	Physics	Materials Letters ISSN: 0167-577X Volume 285, P 129134-, <a href="https://doi.org/10.1016/j.matlet.2020.129134">https://doi.org/10.1016/j.matlet.2020.129134</a>	2021	
19	Solution combustion synthesis of NaFePO <sub>4</sub> and its electrochemical performance	Swapnil Rajoba	Physics	Chinese Journal of Physics Volume 69, P. 134-142, <a href="https://doi.org/10.1016/j.cjph.2020.11.020">https://doi.org/10.1016/j.cjph.2020.11.020</a>	2021	
20	Structural Morphological and Vibrational Properties of Porous α-Fe <sub>2</sub> O <sub>3</sub> nanoparticles prepared by combustion method	Pandurang Pingale	Physics	Macromolecular Symposia	2021	
21	Synthesis of PbS thin film by Chemical Bath deposition method and its structural optical studies	Pandurang Pingale	Physics	JETIR	2021	
22	Facile Synthesis and Characterization of Pentanary Zn (Co, Cd, S) Se Semiconductor Thin Films	Pandurang Pingale	Physics	Techno-Societal, Springer	2021	
23	Synthesis and Electrochemical Performance of Mesoporous NiMn <sub>2</sub> O <sub>4</sub> Nanoparticles as an Anode for Lithium-Ion Battery	Swapnil Rajoba, Sachin Kulkarni, Rajendra Kale	Physics	Journal of Composites Science 2021, 5(3), 69 <a href="https://doi.org/10.3390/jcs5030069">https://doi.org/10.3390/jcs5030069</a>	2021	




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24	Classification of Categorical outcome Variable based on logistic regression and Tree algorithm	Dr. Vaishali V. Patil	Statistics	IJRTE	Jan-20	
25	Assessment of Bio Accumulation Potential of Mangroves Using Statistical Indices, Vol. 49(02)	Avinash Jagtap	Statistics	IJMS	2020	
26	MINERAL COMPOSITION OF AVICENNIA AND SONNERATIA SPECIES FROM COASTAL MAHARASHTRA, AND IT'S INTERPRETATION THROUGH BOX PLOT- STATISTICAL TOOL	Ajit B. Telave, Avinash S. Jagtap, Sourabh R. Chandankar	Statistics	BIOINFOLET	2021	
27	EFFECT OF YOGA THERAPY ON ANXIETY AND DEPRESSION OF WOMEN'S	Ganesh Dhame Ramchandra Jagtap	Yoga	Shodh Sarita Journal, UGC Approved Care, Vol. 7, Issue 27	2020	



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28	Microsatellite Genotyping Corroborated Loss of Genetic Diversity in <i>Clarias batrachus</i> as a Result of Lack of Regulatory Reforms in Aquaculture	Ms. Deepali Sangale, Dr. Khedkar G. D., Dr. Anita Tiknaik	Zoology	Biochemical Genetics (Springer)	2020	
29	Chelation enhanced fluorescence of rhodamine based novel organic nanoparticles for selective detection of mercury ions in aqueous medium and intracellular cell imaging	Prasad G. Mahajan*, J inSik Shin, Nilam C. Dige, Balasaheb D. Vanjare, Yohan Han, Nam Gyu Choi, Song Ja Kim, Sung Yum Seo, Ki Hwan Lee	Chemistry	Journal of Photochemistry and Photobiology A: Chemistry	2020	
30	Synthesis and characterization of new 4H-chromene-3-carboxylates ensuring potent elastase inhibition activity along with their molecular docking and chemoinformatics properties	Nilam C. Dige, Prasad G. Mahajan, Hussain Raza, Mubashir Hassan, Balasaheb D. Vanjare, Hansol Hong, Ki Hwan Lee, Jalifahlatip, Sung-Yum Seo	Chemistry	Bioorganic Chemistry,	2020,	



Sr. No	Title of the Paper	Name of the Author(s)	Department of the Author(s)	Name of the Journal	Month and Year of publication	Links to uploaded papers
31	Synthesis of the novel xanthene based analogues: their optical properties, Jack bean urease inhibition and molecular studies	Balasaheb D. Vanjare, Prasad G. Mahajan, Nilam C. Dige, Hussain Raza, Mubashir Hassan, Sung-Yum Seo, Ki Hwan Lee	Chemistry	Spectrochimica Acta Part A: Mol. Biomol. Spectroscopy	2020	



  
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