

**Number of research papers published per teacher in the Journals as notified on UGC CARE list during 2021-2022**

S NO	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to the recognition in UGCenlistment of the Journal
1	Synthesis of 2D NiFeO <sub>4</sub> nanoplates/2D Bi <sub>2</sub> WO <sub>6</sub> nanoflakes heterostructure: An enhanced Z-scheme charge transfer and separation for visible-light-driven photocatalytic degradation of toxic pollutants	M.C. Rao	Physics	Journal of Environmental Chemical Engineering	9 (2021) 105893	SN 2213-34	<a href="https://www.sciencedirect.com/science/article/abs/pii/S2213343721008708">https://www.sciencedirect.com/science/article/abs/pii/S2213343721008708</a>
2	Identification of thermo optical parameters of 8ocb pure and nano dispersed liquid crystalline compound using image processing based IME method	M.C. Rao	Physics	Molecular Crystals Liquid Crystals	3 (2021) 34-5	SN 1563-52	<a href="https://www.tandfonline.com/doi/abs/10.1080/15421406.2021.1962044">https://www.tandfonline.com/doi/abs/10.1080/15421406.2021.1962044</a>
3	Recent Trends in Graphitic Carbon Nitride-Based Binary and Ternary Hetero structured Electrodes for Photoelectrochemical Water Splitting	M.C. Rao	Physics	Processes	9 (2021) 1959	SN 2227-97	<a href="file:///C:/Users/new/Downloads/processes-09-01959-v3.pdf">file:///C:/Users/new/Downloads/processes-09-01959-v3.pdf</a>
4	Convection over Andaman Nicobar and Lakshadweep islands	M.C. Rao	Physics	Thalassas: An International journal of Marine Sciences	(2021) 593-6	SN 2077-13	<a href="https://link.springer.com/article/10.1007/s41208-021-00335-y">https://link.springer.com/article/10.1007/s41208-021-00335-y</a>
5	Study of statistical estimated parameters using ERA5 reanalysis data over Khulna region during monsoon season	M.C. Rao	Physics	Acta Geophysica	2021) 1963-1	SN 1895-74	<a href="https://link.springer.com/article/10.1007/s11600-021-00662-x">https://link.springer.com/article/10.1007/s11600-021-00662-x</a>
6	Seasonal Variations of Lightning Activity over Uttar Pradesh during 1998	M.C. Rao	Physics	AIP Conference Proceedings	2352 (2021) 030005	SN 1551-76	<a href="https://aip.scitation.org/doi/abs/10.1063/5.0052434">https://aip.scitation.org/doi/abs/10.1063/5.0052434</a>

7	Study of Air Pollutants on few Stations over KarnatakaState, India	M.C. Rao	Physics	AIP Conference Proceedings	2 (2021) 030	SN 1551-76	<a href="https://aip.scitation.org/doi/abs/10.1063/5.0052430">https://aip.scitation.org/doi/abs/10.1063/5.0052430</a>
8	Study of Rainfall over Patna Region, India during 2013	M.C. Rao	Physics	AIP Conference Proceedings	2 (2021) 030	SN 1551-76	<a href="https://aip.scitation.org/doi/abs/10.1063/5.0052440">https://aip.scitation.org/doi/abs/10.1063/5.0052440</a>
9	Study of Heat Wave and Rainfall over Adilabad Region, India during 2013	M.C. Rao	Physics	AIP Conference Proceedings	2 (2021) 030	SN 1551-76	<a href="https://aip.scitation.org/doi/abs/10.1063/5.0052437">https://aip.scitation.org/doi/abs/10.1063/5.0052437</a>
10	Influence of Air Pollutants over India during 2015	M.C. Rao	Physics	AIP Conference Proceedings	2352 (2021) 030017	SN 1551-76	<a href="https://aip.scitation.org/doi/abs/10.1063/5.0052441">https://aip.scitation.org/doi/abs/10.1063/5.0052441</a>
11	Heat Wave over Guntur Region, India during 2008	M.C. Rao	Physics	AIP Conference Proceedings	2 (2021) 030	SN 1551-76	<a href="https://aip.scitation.org/doi/abs/10.1063/5.0052433">https://aip.scitation.org/doi/abs/10.1063/5.0052433</a>
12	Pre-monsoon Rainfall over Mawsynram Region, Indiaduring 2020	M.C. Rao	Physics	AIP Conference Proceedings	2 (2021) 050	SN 1551-76	<a href="https://aip.scitation.org/doi/abs/10.1063/5.0052435">https://aip.scitation.org/doi/abs/10.1063/5.0052435</a>
13	Flexible Microwave Absorber Array for TribandApplications	M.C. Rao	Physics	AIP Conference Proceedings	2 (2021) 020	SN 1551-76	<a href="https://aip.scitation.org/doi/abs/10.1063/5.0052412">https://aip.scitation.org/doi/abs/10.1063/5.0052412</a>

14	Metamaterial Based Cylindrical Cloak Using T-Shaped Unit Cell	M.C. Rao	Physics	AIP Conference Proceedings	2352 (2021) 020049	ISSN 1551-7616	<a href="https://aip.scitation.org/doi/abs/10.1063/5.0052361">https://aip.scitation.org/doi/abs/10.1063/5.0052361</a>
15	Embroidered Quad-Band Electro-Textile Wearable Antenna for WBAN Applications	M.C. Rao	Physics	AIP Conference Proceedings	38 (2021) 293-310	ISSN 1551-7616	<a href="https://aip.scitation.org/doi/abs/10.1063/5.0052352">https://aip.scitation.org/doi/abs/10.1063/5.0052352</a>
16	Variation of thermodynamic indices over four stations of Bangladesh	M.C. Rao	Physics	Thalassas: An International journal of Marine Sciences	38 (2021) 459-478	ISSN 2077-1312	<a href="https://link.springer.com/article/10.1007/s41208-021-00344-x">https://link.springer.com/article/10.1007/s41208-021-00344-x</a>
17	Study of Pre-Monsoon cape development over Puducherry India	M.C. Rao	Physics	Thalassas: An International journal of Marine Sciences	38 (2021) 459-478	ISSN 2077-1312	<a href="https://link.springer.com/article/10.1007/s41208-022-00402-y">https://link.springer.com/article/10.1007/s41208-022-00402-y</a>
18	Recent Advances on MXene-Based Electrocatalysts toward Oxygen Reduction Reaction: A Focused Review	M.C. Rao	Physics	Advanced Materials & Interfaces	8 (2021) 2100975	ISSN 2196-7350	<a href="https://aip.scitation.org/doi/abs/10.1063/5.0052433">https://aip.scitation.org/doi/abs/10.1063/5.0052433</a>
19	An effective CuO/Bi <sub>2</sub> WO <sub>6</sub> heterostructured photocatalyst: Analyzing a charge-transfer mechanism for the enhanced visible-light-driven photocatalytic degradation of tetracycline and organic pollutants	M.C. Rao	Physics	Chemosphere	75 (2021) 3989–3999.	ISSN: 0045-6535	<a href="https://www.sciencedirect.com/science/article/abs/pii/S0045653521024875">https://www.sciencedirect.com/science/article/abs/pii/S0045653521024875</a>
20	Structural, Optical and Photoluminescence Studies of Ti-doped ZnO Nanopowders by a Simple Solution Method	M.C. Rao	Physics	Journal of Applied Spectroscopy	89(2) 281-289	ISSN 0021-9037	<a href="https://link.springer.com/article/10.1007/s10812-022-01363-z">https://link.springer.com/article/10.1007/s10812-022-01363-z</a>

21	Convection-based assessment of pre-monsoon season instability indices over Chandigarh and Ladakh regions, India	M.C. Rao	Physics	Arabian journal of Geosciences	15(2) (2022) 571	ISSN 1866- 7511	<a href="https://link.springer.com/article/10.1007/s12517-022-09854-1">https://link.springer.com/article/10.1007/s12517-022-09854-1</a>
22	Influence of manganese ions on elastic and spectroscopic properties of ZnO doped novel calcium fluorophosphate bio active glasses	Ch. Sriniva saRao	Physics	Physica Scripta	Dec-21	1402-4896	<a href="https://mjl.clarivate.com:/search-results?issn=0031-8949&amp;hide_exact_match_fl=true&amp;utm_source=mjl&amp;utm_medium=s">https://mjl.clarivate.com:/search-results?issn=0031-8949&amp;hide_exact_match_fl=true&amp;utm_source=mjl&amp;utm_medium=s</a>
23	ZrxCa30-xP70 thermoluminescent bio glass, structure and	Ch. Sriniva saRao	Physics	Journal of the Mechanical Behavior of Biomedical Materials	Apr-21	1751-6161	<a href="https://mjl.clarivate.com:/search-results?issn=1751-6161&amp;hide_exact_match_fl=true&amp;utm_source=mjl&amp;utm_medium=s">https://mjl.clarivate.com:/search-results?issn=1751-6161&amp;hide_exact_match_fl=true&amp;utm_source=mjl&amp;utm_medium=s</a>
24	Structure, and opto-dielectric investigations of Cu <sup>2+</sup> -doped calcium bismuth silicate glass ceramics	Ch. Sriniva saRao	Physics	Optical Materials	Mar-21	0925-3467	<a href="https://mjl.clarivate.com:/search-results?issn=0925-3467&amp;hide_exact_match_fl=true&amp;utm_source=mjl&amp;utm_medium=s">https://mjl.clarivate.com:/search-results?issn=0925-3467&amp;hide_exact_match_fl=true&amp;utm_source=mjl&amp;utm_medium=s</a>
25	Influence of Al <sup>3+</sup> and Sb <sup>3+</sup> ions on thermo and photoluminescence properties of Pr <sub>2</sub> O <sub>3</sub> doped PbO–SiO <sub>2</sub> glasses for optical use	Ch. Sriniva saRao	Physics	Journal of Luminescence	Nov-20	0022-2313	<a href="https://mjl.clarivate.com:/search-results?issn=0022-2313&amp;hide_exact_match_fl=true&amp;utm_source=mjl&amp;utm_medium=s">https://mjl.clarivate.com:/search-results?issn=0022-2313&amp;hide_exact_match_fl=true&amp;utm_source=mjl&amp;utm_medium=s</a>
26	“ Influence of manganese ions on elastic and spectroscopic properties of ZnO doped novel calcium fluoro phosphate bio active glasses”	N. Rama krishna Chand	Physics	Physica Scripta	October, 2021	0031-8949	<a href="https://doi.org/10.1088/1402-4896/ac2d7c">DOI 10.1088/1402-4896/ac2d7c</a>
27	“Influence of multi valent states of vanadium ions in ZnO doped novel calcium fluoro phosphate bio glasses”	N. Rama krishna Chand	Physics	Journal of mechanical	July, 2022	1751-6161	<a href="https://doi.org/10.1016/j.jmbbm.2022.105230">https://doi.org/10.1016/j.jmbbm.2022.105230</a>

28	Effect of Some Modifier Ions in CuO Doped Sodium Borosilicate Antibacterial Bioglass	G.Sahaya Baskaran	Physics	ASSIIAN JOURNAL OF CHEMISTRY	Jan-21	AJC-20254	<a href="https://asianjournalofchemistry.co.in/User/SearchArticle.aspx?Volume=33&amp;Issue=3&amp;Article=33_3_16&amp;Criteria=Search..">https://asianjournalofchemistry.co.in/User/SearchArticle.aspx?Volume=33&amp;Issue=3&amp;Article=33_3_16&amp;Criteria=Search..</a>
29	Simultaneous quantification of tiagabine and its related substance by a stability-indicating RP-HPLC method	G.V.RAMANA	Chemistry	RASAYAN J. Chem.	October-December, 2021	0974 - 1496	<a href="http://www.rasayanjournal.co.in/admin/php/upload/3323_pdf.pdf">http://www.rasayanjournal.co.in/admin/php/upload/3323_pdf.pdf</a>
30	Simultaneous determination of tigecycline and its potential impurities by a stability-indicating RP-HPLC-UV detection technique	G.V.RAMANA	Chemistry	International journal of applied pharmaceuticals	Feb-21	0975 - 7058	<a href="https://innovareacademics.in/journals/index.php/ijap/article/view/41243/25934">https://innovareacademics.in/journals/index.php/ijap/article/view/41243/25934</a>
31	Investigation of Molecular Interactions by volumetric, spectroscopic, and DFT studies in some binary liquid mixtures of NMP with N-alkyl Anilines in the temperature range 303.15 - 318.15 K	D. Bala Karuna Kumar	Chemistry	Journal of Molecular Liquids	2021	0167 7322	<a href="https://doi.org/10.1016/j.molliq.2021.116449">https://doi.org/10.1016/j.molliq.2021.116449</a>
32	Studies of solute - solvent interaction of ethyl acetate with 1-Butyl-3-methylimidazolium tetrafluoroborate at T = (298.15–323.15) K	D. Bala Karuna Kumar	Chemistry	Journal of Molecular Liquids	2021	0167 7322	<a href="https://doi.org/10.1016/j.molliq.2021.117187">https://doi.org/10.1016/j.molliq.2021.117187</a>
33	Method Development and Validation of Tivozanib by using RP-HPLC in bulk and Pharmaceutical Dosage form	Dr.Y.Subbareddy	Chemistry	International Journal of applied Pharmaceutics	2021	0975-7058	<a href="https://drive.google.com/file/d/1UrDeI6iO-83sNzIHqvTf7Xao7rOKKuiU/view?usp=sharing">https://drive.google.com/file/d/1UrDeI6iO-83sNzIHqvTf7Xao7rOKKuiU/view?usp=sharing</a>
34	Zn(OAc) <sub>2</sub> ·2H <sub>2</sub> O-catalyzed one-pot synthesis of divergent	CH.BHARGAV I	Chemistry	CURRENT CHEMISTRY LETTERS	2022	1927-730X	<a href="https://drive.google.com/file/d/1kIOD_Gb9vQUXwlfF8VWFe8imNB_gMXc/view?usp=share_link">https://drive.google.com/file/d/1kIOD_Gb9vQUXwlfF8VWFe8imNB_gMXc/view?usp=share_link</a>

35	Synthesis and characterization of novel lanthanum nanoparticles-graphene quantum dots coupled with zeolitic imidazolate framework and its electrochemical sensing application towards vitamin D3 deficiency	KS Bhavani	Chemistry	Colloids and Surfaces A: Physicochemical and Engineering Aspects	February, 2021	18734359	<a href="https://doi.org/10.1016/j.colsurfa.2020.125854">https://doi.org/10.1016/j.colsurfa.2020.125854</a>
36	Enhanced Electrocatalytic Activity of Methanol and Ethanol Oxidation in Alkaline Medium at Bimetallic Nanoparticles Electrochemically Decorated Fullerene-C60 Nanocomposite Electrocatalyst: An	K Sai Bhavani	Chemistry	Electroanalysis	February, 2021	1521-4109	<a href="https://doi.org/10.1002/elan.202060154">https://doi.org/10.1002/elan.202060154</a>
37	Synthesis and characterization of corannulene-metal-organic framework support material for palladium catalyst: An excellent anode material for accelerated methanol oxidation	K Sai Bhavani	Chemistry	Colloids and Surfaces A: Physicochemical and Engineering Aspects	April, 2021	18734359	<a href="https://doi.org/10.1016/j.colsurfa.2021.126237">https://doi.org/10.1016/j.colsurfa.2021.126237</a>
38	Fabrication of handmade paper sensor based on silver-cobalt doped copolymer-ionic liquid composite for monitoring of vitamin D3 level in real samples	K Sai Bhavani	Chemistry	Microchemical Journal	February, 2021	0026-265X	<a href="https://doi.org/10.1016/j.microc.2020.105789">https://doi.org/10.1016/j.microc.2020.105789</a>
39	nitride-ZIF-67 composite support: An electrocatalyst for the oxidation of butanol in fuel cell applications	K Sai Bhavani	Chemistry	International Journal of Hydrogen Energy	February, 2021	3603199	<a href="https://doi.org/10.1016/j.ijhydene.2021.01.006">https://doi.org/10.1016/j.ijhydene.2021.01.006</a>
40	Synthesize and analyze pure and myrtacea doped Kh2Po4 crystals	M.UshaRani	Chemistry	International journal of health sciences	March, 2022	2550-6978	<a href="https://drive.google.com/file/d/1c0virp7ecdu-GM8ah1UeLoWkRUwu85OG/view?usp=sharing">https://drive.google.com/file/d/1c0virp7ecdu-GM8ah1UeLoWkRUwu85OG/view?usp=sharing</a>

41	Development and validation of RP-HPLC method for the simultaneous determination of Cis-Platin, Capecitabine and Trastuzumab	M.UshaRani	Chemistry	IJPQA	March, 2022	0975-9506	<a href="https://drive.google.com/file/d/1TdAZ5UhXhVTNRwwPhyS_TOXxaDQTD26U/view?usp=sharing">https://drive.google.com/file/d/1TdAZ5UhXhVTNRwwPhyS_TOXxaDQTD26U/view?usp=sharing</a>
42	A new way of method establish and validated of related substance of Glasdebig by RP-HPLC and its forced degradation study.	M.UshaRani	Chemistry	IJPSR	March, 2021	0975-8232	<a href="https://drive.google.com/file/d/1IH6L18jnxSJ9ReptxahSHmxMTDWeegrs/view?usp=sharing">https://drive.google.com/file/d/1IH6L18jnxSJ9ReptxahSHmxMTDWeegrs/view?usp=sharing</a>
43	Analytical method development and validation for the esti	M.UshaRani	Chemistry	Journal of cardiovascular disease research	December, 2021	0975-3583	<a href="https://drive.google.com/file/d/1tbZ2zBUqXgPSBi9GFNLgcCxEAPMU_ntv/view?usp=sharing">https://drive.google.com/file/d/1tbZ2zBUqXgPSBi9GFNLgcCxEAPMU_ntv/view?usp=sharing</a>
44	Copper promoted synthesis of tetrazoles and further conversion into diaryl tetrazoles through C-N crosscoupling approach	M.UshaRani	Chemistry	Indian journal of chemistry	March, 2022	0975-0975	<a href="https://drive.google.com/file/d/1HiDekIIMU7O0W8XiTY8Kv_ei94mOoqG/view?usp=sharing">https://drive.google.com/file/d/1HiDekIIMU7O0W8XiTY8Kv_ei94mOoqG/view?usp=sharing</a>
45	Bio-analytic and analytic method quantitative to Tucatinib estimation in pure pharmaceutical dosage form	M.UshaRani	Chemistry	YMER	August, 2022	0044-0477	<a href="https://drive.google.com/file/d/1BGHWhLjFuYH0uX4zugj34iTXKLeAamay8/view?usp=sharing">https://drive.google.com/file/d/1BGHWhLjFuYH0uX4zugj34iTXKLeAamay8/view?usp=sharing</a>
46	Automatic Door Opening System Based on Human Body Temperature	B.Balaji Bhanu	Electronics	International "Journal for Innovative Engineering and Management	2022	2456-5083	<a href="https://ijiemr.org/">https://ijiemr.org/</a>
47	Study on Well Designed Irrigation System through Applying Iot Designed in Reflection of Crop Field	B.Balaji Bhanu	Electronics	Design Engineering	2021	0011-9342	<a href="http://www.thedesignengineering.com/index.php/DE">http://www.thedesignengineering.com/index.php/DE</a>

48	Anxiety in Learning Language : The Teacher's Role in Reducing it	Dr.T.Sai Mamata	English	Bodhi Tree Books & Publications	2021	ISBN978-81-945632-3-5	<a href="https://www.google.com/search?client=firefox-b-d&amp;q=Anxiety+in+Learning+Language+%3A+The+Teacher%27s+R">https://www.google.com/search?client=firefox-b-d&amp;q=Anxiety+in+Learning+Language+%3A+The+Teacher%27s+R</a>
49	Encounter the Realisms in Rural Lives	Dr.T.Sai Mamata	English	Anu Books	January, 2022	ISBN 978-81-936088-6-9	<a href="https://www.google.com/search?client=firefox-b-d&amp;q=Encounter+the+Realisms+in+Rural+Lives">https://www.google.com/search?client=firefox-b-d&amp;q=Encounter+the+Realisms+in+Rural+Lives</a>
50	The Institution of Marriage- Its role in Contouring the Identity of Modern Women: A Critical Review	Dr. L.Subha	English	Anu Books	January, 2022	ISBN 978-81-936088-6-9	<a href="https://www.google.com/search?client=firefox-b-d&amp;q=Encounter+the+Realisms+in+Rural+Lives">https://www.google.com/search?client=firefox-b-d&amp;q=Encounter+the+Realisms+in+Rural+Lives</a>
51	LITERARY ENDEAVOUR Strategic Quest: Not Meeting Mr. Right and Avoiding Mr Right	Dr RAJU B	English			ISSN-0976-299X	<a href="http://www.literaryendeavour.org">www.literaryendeavour.org</a>
52	Generalization of Prime Ideals in M-gamma Groups	P Venugopala Rao	Mathematics	Palestine Journal of Mathematics	February, 2022	2219-5688	<a href="https://pjm.ppu.edu/sites/default/files/papers/PJM_May_%283%292022_443_to_454.pdf">https://pjm.ppu.edu/sites/default/files/papers/PJM_May_%283%292022_443_to_454.pdf</a>
53	A Note on Ideals of Gamma Near semirings	P Venugopala Rao	Mathematics	Mathematical Sciences International Research Journal	July, 2021	2278-8697	<a href="https://drive.google.com/file/d/1d_e_U1gJsk2Y0PuurwpThofkXqIuD-v2/view?pli=1">https://drive.google.com/file/d/1d_e_U1gJsk2Y0PuurwpThofkXqIuD-v2/view?pli=1</a>
54	On Normal Fuzzy s-gamma Ideals of Gamma semi nearin	P Venugopala Rao	Mathematics	Mathematical Sciences International Research Journal	May, 2022	2278-8697	<a href="https://drive.google.com/file/d/1ygetmkh7fsfmlIeMEtkr8OFQJc592N8-/view">https://drive.google.com/file/d/1ygetmkh7fsfmlIeMEtkr8OFQJc592N8-/view</a>



55	Signed Edge Unidomination Number of a Path	J.HARIPRIYA	Mathematics	International Journal of Mathematics Trends and Technology	December, 2021	2231-5373	<a href="http://ijmtjournal.org/archive/ijmt-t-v67i12p501">http://ijmtjournal.org/archive/ijmt-t-v67i12p501</a>
56	Upper Signed Edge Unidomination Number of a Cycle	J.HARIPRIYA	Mathematics	The International Journal of analytical and experimental modal analysis	December, 2021	0886-9367	<a href="http://www.ijaema.com/CURRENT-ISSUE/">http://www.ijaema.com/CURRENT-ISSUE/</a>
57	Acceptance sampling plans for percentiles of the new Weibull-Pareto distribution	K.N.V.R.Lakshmi	Statistics	Journal of Information and Computational Science	June, 2021	1548 - 7741	<a href="https://www.scopus.com/sourceid/144748">https://www.scopus.com/sourceid/144748</a>
58	Analysis Of Means (ANOM) Based on the new Weibull-Pareto Distribution	K.N.V.R.Lakshmi	Statistics	International Journal of Research and Analytical Reviews (IJRAR)	June, 2021	2349-5138	<a href="http://ijrar.org/ijrar%20ugc%20approval.pdf">http://ijrar.org/ijrar%20ugc%20approval.pdf</a>
59	Hybrid Group Acceptance sampling plans for Life Tests Based on the new Weibull-Pareto distribution	K.N.V.R.Lakshmi	Statistics	International Journal for Research in Engineering Application &	June, 2021	2454-9150	<a href="https://www.ijream.org/UGC/Welc e%20to%20UGC,%20New%20Delhi,%20India.html">https://www.ijream.org/UGC/Welc e%20to%20UGC,%20New%20Delhi,%20India.html</a>
60	Classification of brain tumours using artificial neural networks	K B S Sastry	Computer Science	ACTA IMEKO	March, 2022	2221-870X	<a href="https://www.google.com/search?q=Classification+of+brain+tumours+using+artificial+neural+networks%0D%0A&amp;client=firefox-b-">https://www.google.com/search?q=Classification+of+brain+tumours+using+artificial+neural+networks%0D%0A&amp;client=firefox-b-</a>
61	An Optimized Deep Learning Based Optimization Algorithm for the Detection of Colon Cancer Using Deep Recurrent Neural Networks	K B S Sastry	Computer Scienc	IJCNIS	2022	2073-607X, 2076-0930	<a href="https://www.google.com/search?q=An+Optimized+Deep+Learning+Based+Optimization+Algorithm+for+the+Detection+of+Colon+Cancer">https://www.google.com/search?q=An+Optimized+Deep+Learning+Based+Optimization+Algorithm+for+the+Detection+of+Colon+Cancer</a>