

**Publication 2022-23**

<b>Sr. No.</b>	<b>Name of Faculty</b>	<b>Title</b>	<b>Journal details</b>	<b>Type-conference /journal</b>	<b>Scopus/ SCIE</b>	<b>Date of Publication</b>	<b>Calendar Year</b>
1.	Malathi Narra	A novel optimized intelligent green signal timing system for urban corridor	Concurrency and Computation Practice and Expert, Volume34, Issue26	Journal	SCIE	24 August 2022	2022
2.	Dr. M. V. S. Raju and K. Anjaneyula Naik	Efficacy of an organic - inorganic hybrid phosphorus compound in corrosion mitigation of reinforcement steel in concrete . I. gravimetric and electrochemical analysis	Phosphorus, Sulfur, and Silicon and the Related Elements	Journal	SCIE	30 Mar 2023	2023
3.	Dr. Sriram Pradeep	Role of olivine aggregate in lime and cement mortars for sequestration of atmospheric CO2	Materials and Technology, issn 1580-3414, Vol. 57 No. 2 (2023)	Journal	SCIE	30 March 2023	2023
4.	Lakshmi Keshav	Comprehensive Characterization of Ferrochrome Slag and Ferrochrome Ash as Sustainable Materials in Construction	Hindawi Journal of Nanomaterials Volume 2022, Article ID 8571055, 12 pages <a href="https://doi.org/10.1155/2022/8571055">https://doi.org/10.1155/2022/8571055</a> 1687-4129	Journal	SCIE	15 July 2022	2022
5.	S. K. Shukla	Energy-based approach to study liquefaction triggering in homogeneous and stratified soils under consolidated undrained cyclic loading	Engineering Geology	Journal	SCIE	5 May 2023	2023
6.	V. Ramesh and B. Panduranga Rao	Self- adaptive penalty approach as an alternative technique for lateral load analysis of framed type elevated water tank stagings	structures	Journal	SCIE	11 May 2023	2023
7.	Dr. Lakshmi Keshav	Production of Bio Briquettes from Gloriosa Superba Wastes-Turmeric Leaves (GSW-TL) with Cassava Starch Binder for Environment Sustainability	Waste and Biomass Valorization 1877-265X	Journal	SCIE	07 June 2023	2023

8.	Dr. KSR Prasad, Pogula Ganesh, Janga Suma, Budi Harika, Sanagala Harish Sai Durga Prasad	Study on Coastal Area Pollution by Anthropogenic Activities Along The Krishna – Eastern Delta	Undergraduate Academic Research Journal (UARJ), ISSN : 2278 – 1129, Volume-1, Issue-2, 2022	Journal	Others	August 2022	2022
9.	S.R.R. Teja Prathipati	Evaluating the feasibility of blending fly ash and quarry dust in high- strength concrete to develop a sustainable concrete: A Study on the Mechanical and Durability Properties	IOP Conf. Series: Earth and Environmental Science, Advancements in Sustainable Materials and Infrastructure,1086 (2022) 012060, doi:10.1088/1755- 1315/1086/1/012060	Internation al Conference	Scopus	Oct 2022	2022
10.	Bojja Vinod Kumar, Anuja Charpe, NR Krishnamurthy	Effect of bio-cementation process on sandy soil	IOP Conf. Series: Earth and Environmental Science, Advancements in Sustainable Materials and Infrastructure,1086 (2022) 012060,10.1088/1755- 1315/1086/1/012017	Internation al Conference	Scopus	Oct-2022	2022
11.	<i>U V Narayana Rao</i>	Binary and Ternary blended self compacting concrete proportioned based on the rheological properties-An experimental investigation	Neuroquantology, ISSN 1303 5150, pp 9755-9766	Journal	Scopus	June 2022	2022
12.	A Dattatreya Kumar , Hanuma Kasagani	Experimental investigation on mechanical properties of lightweight aggregate concrete	Civil and Environmental Engineering,	Journal	Scopus	Nov 2022	2022
13.	Mounika Susarla	Prediction of Population Density & Poverty Rate Using Uncertain Mosaics with Satellite Imagery	International Journal of ss ISSN2147-6799, 2022, 10(2s), 21– 27	Journal	Scopus	November 2022	2022

14.	U V Narayana Rao	Resistance of wood ash concrete to sulfuric acid attack	Oriental journal of chemistry, ISSN 0970-020X, 2022, Vol 38, No. 4 pp 1047-1052	Journal	ESCI	August 2022	2022
15.	A. Sandeep Reddy · Rama Vara Prasad Chavali	Solidification/stabilization of copper-contaminated soil using magnesia-activated blast furnace slag	Innovative Infrastructure Solutions (2023) 8:79 2364-4184	Journal	Scopus	Janaury 2023	2023
16.	M Haritha and N R Krishnamurthy	Case study: Ground Improvement technique with Geosynthetics as reinforcement on soft ground for buildings in coastal Andhra Pradesh	IOP Conference Series: Earth and Environmental Science, Volume 1130, Innovative Technology for Smart Construction Materials and Sustainable Infrastructure 2022 14/10/2022 - 15/10/2022 Online	Conference	Scopus	Janaury 2023	2023
17.	N R Krishnamurthy, T Nagasai, M Anil Kumar, P Siva Kumar and N Ravi Kumar	Comparative study of Conventional and other Filter Medium	IOP Conference Series: Earth and Environmental Science, Volume 1130, Innovative Technology for Smart Construction Materials and Sustainable Infrastructure 2022 14/10/2022 - 15/10/2022 Online	Conference	Scopus	Janaury 2023	2023
18.	G Ravi, P.K. Prasanna and S. Satish	The Role of Granite Waste Powder on Mechanical and Durability performance of GGBS and Metakaoline based concrete	IOP Conference Series: Earth and Environmental Science, Volume 1130, Innovative Technology for Smart Construction Materials and Sustainable Infrastructure 2022 14/10/2022 - 15/10/2022 Online	Conference	Scopus	Janaury 2023	2023

19.	Kolluru Venkata Sai, V V N Prabhakara Rao and V Mallikarjuna	A Review on the Utilisation of Silica Fume and Metakaolin as Novel Grout Materials	IOP Conference Series: Earth and Environmental Science, Volume 1130, Innovative Technology for Smart Construction Materials and Sustainable Infrastructure 2022 14/10/2022 - 15/10/2022 Online	Conference	Scopus	Janaury 2023	2023
20.	U.V. Narayana Rao and N. Venkata Sairam Kumar	Greener and sustainable self-compaction concrete: A review on performance at elevated temperatures	IOP Conference Series: Earth and Environmental Science, Volume 1130, Innovative Technology for Smart Construction Materials and Sustainable Infrastructure 2022 14/10/2022 - 15/10/2022 Online	Conference	Scopus	Janaury 2023	2023
21.	M. Neeharika and A. Dattatreya Kumar	Ultrahigh Performance of Concrete using Manufactured Sand	IOP Conference Series: Earth and Environmental Science, Volume 1130, Innovative Technology for Smart Construction Materials and Sustainable Infrastructure 2022 14/10/2022 - 15/10/2022 Online	Conference	Scopus	Janaury 2023	2023
22.	N Mahendra Reddy1, Hanuma kasagani2 and U Harshith chowdary	A study on Real time strength assessment of concrete by maturity method	IOP Conference Series: Earth and Environmental Science, Volume 1130, Innovative Technology for Smart Construction Materials and Sustainable Infrastructure 2022 14/10/2022 - 15/10/2022 Online	Conference	Scopus	Janaury 2023	2023

23.	Kunamineni Vijay1, S R R Teja Prathipati2, Tummala Santhi Sagar1 and Yeswanth Paluri	Evaluating the effect of steel fibers on the mechanical performance of high-volume fly ash concrete	IOP Conference Series: Earth and Environmental Science, Volume 1130, Innovative Technology for Smart Construction Materials and Sustainable Infrastructure 2022 14/10/2022 - 15/10/2022 Online	Conference	Scopus	Janaury 2023	2023
24.	Kakaraparthi Phani Kumar1 and Mandava Kanta Rao	A study on the Water Proofing Behaviour of Fly Ash, M-sand and Dust based concrete with varying percentages of different Crystalline Admixtures	IOP Conference Series: Earth and Environmental Science, Volume 1130, Innovative Technology for Smart Construction Materials and Sustainable Infrastructure 2022 14/10/2022 - 15/10/2022 Online	Conference	Scopus	Janaury 2023	2023
25.	B Saketh Raj1 and M Kanta Rao	Flexural Performance of Sustainable Fly Ash Based Concrete Beams	IOP Conference Series: Earth and Environmental Science, Volume 1130, Innovative Technology for Smart Construction Materials and Sustainable Infrastructure 2022 14/10/2022 - 15/10/2022 Online	Conference	Scopus	Janaury 2023	2023
26.	Vajrala Kavya Sameera1 and Lakshmi Keshav	Mechanical And Durability Behaviour Of GGBS, M-sand Based Concrete With Varying Percentages Of Two Crystalline Admixtures – An Experimental Study	IOP Conference Series: Earth and Environmental Science, Volume 1130, Innovative Technology for Smart Construction Materials and Sustainable Infrastructure 2022 14/10/2022 - 15/10/2022 Online	Conference	Scopus	Janaury 2023	2023

27.	P. L. S. Shalini Kora <sup>1</sup> and Nipun Gorantla	Study On Behaviour Of Aluminium Metal Matrix Composite Reinforced With Silicon Carbide And Titanium Diboride	IOP Conference Series: Earth and Environmental Science, Volume 1130, Innovative Technology for Smart Construction Materials and Sustainable Infrastructure 2022 14/10/2022 - 15/10/2022 Online	Conference	Scopus	Janaury 2023	2023
28.	Jahnavi Donavalli <sup>1</sup> , T S Ram Babu <sup>2</sup> and Chukka Sandhya Rani	Probability based Assessment of Soil Liquefaction Potential in Vijayawada Region (CRDA)	IOP Conference Series: Earth and Environmental Science, Volume 1130, Innovative Technology for Smart Construction Materials and Sustainable Infrastructure 2022 14/10/2022 - 15/10/2022 Online	Conference	Scopus	Janaury 2023	2023
29.	Ch Sandhya Rani <sup>1</sup> , T S Ram Babu <sup>2</sup> and Jahnavi Donavalli	Analysis of Liquefaction Potential of Soils in Guntur Region (CRDA)	IOP Conference Series: Earth and Environmental Science, Volume 1130, Innovative Technology for Smart Construction Materials and Sustainable Infrastructure 2022 14/10/2022 - 15/10/2022 Online	Conference	Scopus	Janaury 2023	2023
30.	A Ahalya <sup>1</sup> and K S R Prasad	Stabilization of black cotton soil with waste plastic and admixtures	IOP Conference Series: Earth and Environmental Science, Volume 1130, Innovative Technology for Smart Construction Materials and Sustainable Infrastructure 2022 14/10/2022 - 15/10/2022 Online	Conference	Scopus	Janaury 2023	2023

31.	Sai Nandan Mandadapu1, VN Prabhakara Rao2 and Sandhya Rani Ch	A review of fresh and hardened properties of concrete reinforced with waste materials	IOP Conference Series: Earth and Environmental Science, Volume 1130, Innovative Technology for Smart Construction Materials and Sustainable Infrastructure 2022 14/10/2022 - 15/10/2022 Online	Conference	Scopus	Janaury 2023	2023
32.	Naga Venkata Vamsi Krishna Tadiboina1 and U V Narayana Rao	Investigation of Mechanical Properties of M-sand concrete with Polypropylene and Steel fibers	IOP Conference Series: Earth and Environmental Science, Volume 1130, Innovative Technology for Smart Construction Materials and Sustainable Infrastructure 2022 14/10/2022 - 15/10/2022 Online	Conference	Scopus	Janaury 2023	2023
33.	M. Sobhana; Vemulapalli Krishna Rohith; Tellakula Avinash; N. Malathi	A hybrid machine learning approach for performing predictive analytics on road accidents	2022 6th International Conference on Computation System and Information Technology for Sustainable Solutions (CSITSS) - IEEE Xplore Bangalore21- 23 December 2022 ISBN:978-1-6654- 5699-9	Conference	Scopus	December 2022	2022
34.	P. K. Prasanna and T. Sujatha, G. Sheena Ecclesia	A review on emerging applications of artificial intelligence in civil engineering	Mathematical statistician and engineering applications Vol. 71 No. 4, 2094-0343, Vol. 71 No. 4 (2022), Page Number: 10925 - 10940	journal	others	Dec-22	2022

35.	Haroon Ali Khan	Automatic fire detection, indication and controlling system for commercial building using programmable logic controller	Journal of pharmaceutical negative results, Vol. 14 Issue 2, p3350-3362	Journal	WOS	Feb 2023	2023
36.	UV Narayan Rao	Sulfate Attack on cement based materials: An overview	European chemical bulletin, 2023, 12(Special Issue 1), 32-47, ISSN 2063-5346	Journal	scopus	April 2023	2023
37.	Racharla Babu Thomas , Dattatreya Kumar	An experimental investigation on self compacting concrete by partial replacement of cement using GGBS for sustainable construction	Advances in Sustainable Construction Materials AIP Conf. Proc. 2759, 060016-1–060016-9; Volume 2759, Issue 1, <a href="https://doi.org/10.1063/5.0144394">https://doi.org/10.1063/5.0144394</a> KLU 18–19 March 2022 Guntur, 0094-243X	Conference	scopus	4 May 2023	2023
38.	Sk Mabu Subhani , B Pandurangarao	Stiffness Method for Analysis of Foundations using Subgrade Modulus	Advances in Sustainable Construction Materials AIP Conf. Proc. 2759, 030001-1–030001-11; Volume 2759, Issue 1, KLU 18–19 March 2022 Guntur	Conference	scopus	4 May 2023	2023
39.	Prudhvi Raju Sagia , Venkat Rao Badugu	Study on performance of RHS and tapered sections for a multi-bay industrial building	Advances in Sustainable Construction Materials AIP Conf. Proc. 2759, 050011-1–050011-10; KLU 18–19 March 2022 Guntur	Conference	scopus	4 May 2023	2023



40.	Harish Sarnalaa , Hanuma Kasagani	Post Peak Energy Adsorption Enhancement of Glass Fiber Reinforced Concrete with Effect of Graded Fibers	Advances in Sustainable Construction Materials AIP Conf. Proc. 2759, 060012-1– 060012-10; Volume 2759, Issue 1,KLU 18–19 March 2022 Guntur	Conference	scopus	4 May 2023	2023
41.	Sita Rama Prasad Kudaravallia) Sri Rambabu Tummalab)	Removal of fluoride concentration in water using natural adsorbents	Advances in Sustainable Construction Materials AIP Conf. Proc. 2759, 030005-1– 030005-10;KLU 18–19 March 2022 Guntur	Conference	scopus	4 May 2023	2023
42.	Phani Kumar Kakaraparthi, Lakshmi Keshav, M. Kanta Raoa	Evaluation of Seismic Vulnerability and Retrofitting of Existing Steel Buildings	Advances in Sustainable Construction Materials AIP Conf. Proc. 2759, 050001-1– 050001-17, KLU 18–19 March 2022 Guntur	Conference	scopus	4 May 2023	2023
43.	Naga Venkata Vamsi Krishna Tadiboina, Lakshmi Keshav and U.V. Narayana	Study on existing reinforced concrete buildings seismic vulnerability after retrofitting	Advances in Sustainable Construction Materials AIP Conf. Proc. 2759, 060019-1– 060019-21, Volume 2759, Issue 1, KLU 18–19 March 2022 Guntur	Conference	scopus	4 May 2023	2023
44.	Shalini Kora , Nipun Gorantla	A review on delamination and wear characteristics of metal matrix composites	Advances in Sustainable Construction Materials AIP Conf. Proc. 2759, 050024-1– 050024-6; KLU 18–19 March 2022 Guntur	Conference	scopus	4 May 2023	2023

45.	Satyanarayana, Nipun	Prediction of concrete compressive strength by machine learning technique using multivariable regression analysis	Advances in Sustainable Construction Materials AIP Conf. Proc. 2759, 060020-1–060020-7; Volume 2759, Issue 1, KLU 18–19 March 2022 Guntur	Conference	scopus	4 May 2023	2023
46.	Prasanna , Lingeshwaran , Ramachandra Murthy , Srinivasu	Investigation on performance of GGBS concrete by incorporating steel fibers	Advances in Sustainable Construction Materials AIP Conf. Proc. 2759, 050019-1–050019-11, Volume 2759, Issue 1	Conference	scopus	4 May 2023	2023
47.	Shaik Ansar Babu, Shaik Khaja Sameer, Divya	Experimental study on physio – Mechanical characteristics of self-curing rapid hardened concrete	Advances in Sustainable Construction Materials AIP Conf. Proc. 2759, 060024-1–060024-12; KLU 18–19 March 2022 Guntur	Conference	scopus	4 May 2023	2023
48.	Sai Krishna Nadakuditia , Sujatha and Chava Srinivas	Study on performance of concrete by replacing cement with seashell ash powder and fine aggregates with brick powder	Advances in Sustainable Construction Materials AIP Conf. Proc. 2759, 060011-1–060011-12; KLU 18–19 March 2022 Guntur	Conference	scopus	4 May 2023	2023
49.	Shashank Ranganath Sri Rangaraja Bhattar, Mallikarjuna Vankeswaram	Enhancing the California Bearing Ratio(CBR) of expansive soil using shredded waste plastic	Advances in Sustainable Construction Materials AIP Conf. Proc. 2759, 030002-1–030002-10, KLU 18–19 March 2022 Guntur	Conference	scopus	4 May 2023	2023
50.	Vedula Venkata Naga Prabhakara Rao	A Novel Wildfire Residue for Stabilization of Laterite Soil	Civil Engineering and Architecture 11(4): 1679-1687, 2023	Journal	Scopus	11 May 2023	2023

51.	V. Mallikarjuna	Experimental Investigation on concrete with replacement of cement by reactive magnesium oxide and flyash	European chemical bulletin Volume -12, Special Issue-6 (2023 )	Journal	Scopus	1 May 2023	2023
52.	Satish sajja	Experimental study on expansive soil stabilized with rice husk ash and quarry dust for subgrade application	International confrence on smart materials ans structures ICMS - 2022, VVIT Guntur, Volume2810	Conference	Scopus	Feb 2023	2023
53.	Yashwant Kumar Gorantla	Evaluation of shear properties of ultra high strength concrete	Corrosion and Protection, Vol 51 issue 1	Journal	Scopus	June 2023	2023
54.	Y. Suma	Experimental investigations on hybrid glass reinforced slag fly ash blended geopolymer concrete.	European chemical bulletinVolume -12, Special issue-9 2023	Journal	Scopus	June 2023	2023
55.	U. V. Narayanrao	Mechanical Properties of High Strength Self Compacting Concrete Based on Rheological Mix Proportioning	Civil and Environmental Engineering Vol. 19, Issue 1, 260-270,	Journal	Scopus	May 2023	2023