

**KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE**

Opp : Yerragattu Gutta, Hasanparthy (Mandal), WARANGAL - 506 015, Telangana, INDIA.

కాకతీయ ప్రేక్షాగికి ఁవ విజ్ఞాన సంస్థాన, వరంగల్ - ౪౦౬ ౦౧౫ తెలంగాణ, భారత్

కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం, పరంగల్ - ౫౦౬ ౦౧౫ తెలంగాణ, భారతదేశము

(An Autonomous Institute under Kakatiya University, Warangal)

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Department of Physical Sciences

SDG GOALS ADDRESSED BY RESEARCH PAPERS



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కాకతీయ ప్రైవేట్ టెక్నాలజీస్ & సైన్స్, వరంగల్ - 506 015 తెలంగాణ, భారతదేశము

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Research papers towards SDGs

AY 2024-25

S No	Name of the Faculty	Title of the Paper	SDGs addressed	SCI/Scopus/Conference
1	Dr. H. Ramesh Babu	One-pot synthesis, anticancer, EGFR and caspases assays of novel fused [1,2,3] triazolo-pyrrolo [2,1-b]quinazolinones.	SDG-9:	Scopus
2	D. Prabhakara Chary	Synthesis and biological evaluation of chalcone incorporated thiazole-isoxazole derivatives as anticancer agents, Chemical Data Collections	SDG-9:	Scopus
3	Dr. M. Ranadheer Kumar	Synthesis of novel [1,2,3] triazolo [4',5':3,4] pyrrolo[1,2-a]thieno[2,3-d]pyrimidines: Potent EGFR is targeting anti-breast cancer agents	SDG9:	Scopus
4	Dr. E. Kalyan Rao	"Microwave-Assisted Synthesis and Evaluation of Bis[(1-benzyl-1H-1,2,3 triazol-4-yl)methyl] 7,8'-Methylenebis[2-(E)-(benzylideneamino)-4H-chromene-3-carboxylates] as Potent Antimicrobial Agents"	SDG9:	Scopus
5	Dr. V. Sunil Kumar	Annealed Temperaturesol-gel deposited P-channel type CUXCR1-XO2-thin film transistors	SDG7:	Scopus
6	Dr V. Prashanth Kumar	Thermal and electrical characteristics of praseodymium-based perovskites as a function of iron and cobalt substitution	SDG7:	SCI
7	Dr. D. Praveena	Molecular structure, UV-Visible spectra and other molecular properties of (E)-2-(2-hydroxy-5 methoxybenzylidene) hydrazinecarbothioamide and its n-methyl variant by using DFT methods	SDG9	SCI
8	Dr. P. Srinivas Rao	MHD Powell-Eyring fluid flow with Cattaneo Christov heat and mass flux over a stretching sheet	SDG7:	SCI



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కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం, వరంగల్ - 506 015 తెలంగాణ, భారతదేశము

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AY: 2023-24

S No	Name of the Faculty	Title of the Paper	SDGs addressed	SCI/Scopus/Conference
1	Dr. D Prabhakara Chary	Synthesis, Spectral and Electrochemical behavior of Co (II) Complexes with New Schiff Base Ligands in Non-aqueous media at the Surface of Solid Electrode	SDG-9	Scopus
2	Dr H. Ramesh Babu	Synthesis and biological evaluation of pyrido[3,2,1-ij][1,2,3]triazolo[4,5-c]quinolinones: PEG-400 mediated one-pot reaction under ultrasonic irradiation	SDG-9	SCI
3	Dr G Sridhar	Design, synthesis, anticancer evaluation, molecular docking and in silico ADME analysis of novel substituted 1,3,4-thiadazoloaryl incorporated pyrimidine-thiazole derivatives as propitious anticancer agents.	SDG-9	SCI
4	Dr V Sunil Kumar	Ecofriendly-synthesized pro-microporous C-Co ₃ O ₄ nanoparticles conjugated with controlled electropolymerization of pyrrole for high-efficient symmetric supercapacitors	SDG-7	SCI
5	Dr. M. Gopikrishna	In vivo targeting of a tumor-antigen encoded DNA vaccine to dendritic cells in combination with tumor-selective chemotherapy eradicates established mouse melanoma	SDG-9	SCI



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AY: 2022-23

S No	Name of the Faculty	Title of the Paper	SDGs addressed	SCI/Scopus/Conference
1	Dr. N. Maramu	Effect of Cr ³⁺ -Al ³⁺ co-substitution on structural, magnetic and microwave absorption properties of Sr-hexaferrites	SDG-7	SCI
2	Dr V Sunil Kumar	A Disposable Screen Printed Electrodes with Hexagonal Ni(OH) ₂ Nanoplates Embedded Chitosan Layer for the Detection of Depression Biomarker	SDG-7	Scopus
3	Dr V Sunil Kumar	A label-free impedimetric immunosensor for zearalenone based on CS-CNT-Pd nanocomposite modified screen-printed disposable electrodes	SDG-7	SCI
4	Dr V Sunil Kumar	Trends in Paper-Based Sensing Devices for Clinical and Environmental Monitoring	SDG-7	Scopus
5	Dr. G. Sridhar	Total synthesis of 4-((3S,5R)-3,5-dihydroxynonadecyl)phenol,	SDG-9	SCI
6	Dr K. Rajendra Prasad	Investigations on nano composites of silver metalparticle embedded MAAMPS copolymer.	SDG-7	Scopus
7	Dr P. Srinivasa Rao	Thermal exploration of convective transportation of ethylene glycol based magnetized nanofluid flow in porous cylindrical annulus utilizing MOS ₂ and Fe ₃ O ₄ nanoparticles with inconstant viscosity	SDG-7	SCI
8	Dr. V. Prashanth Kumar	SOFC APPLICATIONS BY STRUCTURAL, ELECTRICAL AND IMPEDANCE CHARACTERISTICS OF PEROVSKITE-OXIDES	SDG-7	UGC Care
9	Dr. M. Ranadheer Kumar	Synthesis and Biological Evaluation of Novel Phenothiazine-sulfonamide based Isoxazole derivatives as potent antibacterial agents.	SDG-9	SCI
10	Dr. Bunty Roy	Temperature-dependent dielectric relaxation and hydrophobicity of aqueous alanine using time domain reflectometry	SDG-7	SCI



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AY: 2021-22

S No	Name of the Faculty	Title of the Paper	SDGs addressed	SCI/Scopus/Conference
1	Dr H. Ramesh Babu	One-pot synthesis and biological evaluation of novel 3-(5[(aryl methyl)isoxazol-3-yl]-4H-chromen-4-one derivatives as potent antibacterial and anticancer agents	SDG-9	Scopus
2	Dr H. Ramesh Babu	Synthesis and Biological Evaluation of Novel 1,2,3-Triazole Based Pyrido[4,3-d]pyrimidines as Potent anticancer and EGFR Inhibitors	SDG-9	SCI
3	Dr. D Prabhakara Chary	Design, Synthesis and Biological Screening of Novel 1,2,4-Thiadizole Linked Acridine Derivatives	SDG-9	sCOPUS
4	Dr. M. Gopikrishna	Enhancing the anticancer effect of paclitaxel by using polymeric nanoparticles decorated with colorectal cancer targeting CPKSNNGVC-peptide	SDG-9	SCI
5	Dr Ch.Sateesh Chandra	Load Dependence Of The Measured Hardness On Some Glycine Based Non-Linear Optical Crystals	SDG-9	UGC Care
6	Dr. M. Gopikrishna	Novel Suberoylanilide hydroxamic acid analogs inhibit angiogenesis and induce apoptosis in breast cancer cells	SDG-9	SCI
7	Dr. G. Sridhar	Design and synthesis of novel urea derivatives of pyrimidine-pyrazoles as anticancer agents	SDG-9	SCI
8	Dr. G. Sridhar	Total synthesis of (3R, 4S)-4-hydroxylasiodiplodin	SDG-9	SCI
9	Dr. M. Ranadheer Kumar	Design, Synthesis and Biological Evaluation of Novel Indole-Isoxazole Conjugates as Potent Anticancer Agents	SDG-9	Scopus
10	Dr. T. Madhukar Reddy	Synthesis and biological evaluation of new bis isatin derivatives for CNS activity	SDG-9	

11	Dr K. Rajendra Prasad	Thermally Stimulated Relaxations And Electrical Conductivity Studies Of Polyacrylamide– Polyacrylic Acid Blends	SDG-9	UGC Care
12	Dr E Kalyan Rao	Synthesis and Anticancer Activity of Triazole Linked Macrocycles and Heterocycles	SDG-9	SCI
13	Dr D MadhaviLatha	Spectral response of apodized fiber Bragg gratings as strain and temperature sensor	SDG-7	SCI
14	Dr D MadhaviLatha	Optimal parameters for fber Bragg gratings for sensing applications: a spectral study	SDG-7	SCI
15	Dr. V. Prashanth Kumar	Structural and impedance studies of praseodymium based orthoferrites for solid oxide fuel cells	SDG-7	Scopus
16	Dr N Maramu	Eco-friendly synthesis, TEM and magnetic properties of Co-Er nano-ferrites	SDG-9	Scopus
17	Dr N Maramu	Crystal chemistry, magnetic and dielectric properties of nickel doped strontium ferrites	SDG-9	Scopus
18	Dr N Maramu	Structural, magnetic and electromagnetic properties of microwave-hydrothermally synthesized $\text{Sr}(\text{ZrMn})_2\text{Fe}_{12-2x}\text{O}_{19}$ hexaferrites	SDG-9	SCI
19	Dr N Maramu	Structural and microwave properties of Ag-doped strontium hexaferrite.	SDG-9	SCI
20	Dr N Maramu	Crystal Chemistry, Rietveld Analysis, Magnetic and Microwave Properties of Cu Doped Strontium Hexaferrites	SDG-9	SCI
21	Dr P. Srinivasa Rao	Prevalence of secondary flow due to hall currents on radiative squeezing flow of a CuO-water nanofluid in a rotating channel: numerical prediction	SDG-9	SCI

22	Dr P. Srinivasa Rao	Effect of thermal radiation on nonDarcy hydromagnetic convective heat and mass transfer flow of a water-SWCNT's and MWCNT's nanofluids in a cylindrical annulus with thermo-diffusion and chemical reaction	SDG-9	SCI
23	Dr. M. Ranadheer Kumar	Design, Synthesis and Biological Evaluation of Novel Indole-Isoxazole Conjugates as Potent Anticancer Agents	SDG-9	SCI

