

ADITYA ENGINEERING COLLEGE

Approved by AICTE • Permanently Affiliated to JNTUK • Accredited by NAAC with 'A' Grade Recognised by UGC under sections 2(f) and 12(B) of UGC Act, 1956 Aditya Nagar, ADB Road, Surampalem - 533437, Near Kakinada, E.G.Dt., Ph:99498 76662

## List of research papers in the Journals notified on UGC website during the year 2021

S. No.	Title of the Paper	Link of the Document
1.	Efficient Energy Management of Hybrid Renewable Energy Sources based Smart Grid System using a Hybrid IDEACFA Technique	View
2.	An Efficient Integration and Control Approach to Increase the Conversion Efficiency of High Current Low Voltage DC-DC Converter	View
3.	Experimental investigation of strategies to enhance the homogeneous charge compression ignition engine characteristics powered by waste plastic oil	View
4.	Effect of Cerium Oxide Nanoparticles to Improve the Combustion Characteristics of Palm Oil Nano Water Emulsion using Low Heat Rejection Engine	View
5.	Influence of Various Pulse Waveforms during Fabrication of Micro Rectangular Pattern by Masked Tool using Electrochemical Micromachining	View
6.	Modeling a Virtual Bare-Hand Interface System Using a Robust Hand Detection Approach for HCI	View
7.	Improving data aggregation efficiency using multi-layer approachin IOT	View
8.	Evaluation of water emulsion in biodiesel for engine performance and emission characteristics	View
9.	Experimental investigation of diesel engine with Neem seed oil and compressed natural gas	View
10.	The role of Sm2O3 on the structural, optical and spectroscopic properties of multi-component ternary borate glasses for orange-red emission applications	View
11.	Yield Response of Okra to different Row Spacings and Fertilizer Application Methods Under Drip Irrigation System	View
12.	Understanding the microstructure, mineralogical and adsorption characteristics of guar gum blended soil as a liner material	View
13.	Strategies for Tracking Immune Surveillance of Tumor Milieu during Angiogenesis	View
14	An experimental investigation on the combustion characteristics of a direct injection diesel engine fulled with an algal biodiesel and its diesel blends	View
15.	Linear and Nonlinear Optical Properties of CuO NPs for Photonics	View
16.	Design of automated visual inspection system for beverage industry production line	View
17.	Ideals of transitive be-algebras	View
18.	Investigation of TIG Cladding of NiTi Wire on Substrate 304L to Study the Effect of Applied Current on Microstructure and Mechanical Properties	View

S. No.	Title of the Paper	Link of the Document
19.	Investigation on the mitigation of environmental harmful emissions by incorporating nanoparticles to biofuel water nano emulsion in low heat rejection engine	View
20	Study of microstructure and mechanical properties of NiTi wire cladding on super austenitic stainless steel 904L by TIG cladding process	View
21.	Regular Filters of Commutative BE-Algebra	View
22.	Electrical, Optical, and Reliability Analysis of QD- Embedded Kesterite Solar Cell	View
23.	Micro-electrochemical jet machining of large area microtexturing with tool movement strategy	View
24.	Thermo-mechanical analysis of laser welding of Grade 91 steel plates	View
25.	Automated Computer Aided Diagnosis Using Altered Multi – Phase Level Sets in Application to Categorze the Breast Cancer Biopsy Images	View
26.	An integrated converter topology for torque ripple minimization in BLDC motor using an ITSA technique	View
27.	Role of hydrogen in improving performance and emission characteristics of homogeneous charge compression ignition engine fueled with graphite oxide nanoparticle-added microalgae biodiesel/diesel blends	View
28.	Preparation of sulfur doped TiO2 nanoparticles from rutile sand and their performance testing in hybrid solar cells	View
29.	Material characterizations of Moringa oleifera gum (MOG)	View
30.	Effects of antioxidants to reduce the harmful pollutants from diesel engine using preheated palm oil-diesel blend	View
31.	Effect of injection timing in reducing the harmful pollutants emitted from CI engine using N-butanol antioxidant blended eco-friendly Mahua biodiesel	View
32.	Analysis of Electrical and Impedance Properties of the Group-I (Li, Na, K & Cs) Doped ZnO Nanorods	View
33.	Performance analysis of coal cleaning operations: Role of Probable Error in Separation and Organic Efficiency	View
34.	Correlation study of antioxidant activity with phenolic and flavonoid compounds in 12 indonesian indigenous herbs	View
35.	Diminishing Energy Consumption Cost and Optimal Energy Management of Photovoltaic Aided Electric Vehicle (PV-EV) By GFO-VITG Approach	View
36.	Functional, thermal, pasting, and rheological properties of gluten- free maize composite flour: Effect of moth bean flour and hydrocolloid addition	View
37.	Preparation of freestanding films from SWCNT/PANI nanocomposites using different blending techniques and characterization of their EMI shielding effectiveness in X-band	View
38.	Optimal Capacitor Placement – A Bibliometric Survey	View
39.	Load flow solution of distribution systems - A Bibliometric survey	View
40.	Optimal Distributed Generator Placement-A Bibliometric Survey	View

S. No.	Title of the Paper	Link of the Document
41.	Effect of different mulching materials on yield and growth parameters of tomato crop	View
42.	Rehydration Characteristics of Mushrooms using Different Drying Techniques	View
43.	Correlation Study of Antioxidant Activity with Phenolic and Flavonoid Compounds in 12 Indonesian Indigenous Herbs	View
44.	Effect of ultraviolet and solar radiation on photocatalytic dye (Black-E and Congo red) degradation using copper oxide nanostructure particles	View
45.	Experimental investigation for stability and surface properties of TiO <sub>2</sub> and Al <sub>2</sub> O <sub>3</sub> water-based nano fluids	View
46.	Influence of anti-washout admixtures on the strength and microstructural characteristics of geopolymer concrete	View
47.	Quasi-complemented BE- Algebras	View
48.	Thermo-hydraulic performance of a solar air heater with staggered C-shape finned absorber plate	View
49.	A multi-objective approach for renewable distributed generator unit's placement considering generation and load uncertainties	View
50.	A series-connected switched source and an H-bridge based multilevel inverter	View
51.	A single-phase simplified DC-AC converter using DC-link capacitors and an h-bridge	View
52.	An Efficient Covid19 Epidemic Analysis and Prediction Model Using Machine Learning Algorithms	View
53.	Assessing the potential of xanthan gum to modify in-situ soil as baseliners for landfills	View
54.	Effect of welding current in TIG welding 304L steel on temperature distribution, microstructure and mechanical properties	View
55.	Evaluation of micro-structural and magnetic properties of nickel nano-ferrite and Mn2+ substituted nickel nano-ferrite	View
56.	Investigation into Machining Accuracy of Micro Circular Pattern Fabricated by Maskless Electrochemical Micromachining	View
57.	Micro-structural, dielectrical and magnetic properties of Cu2+ substituted Ni0.7Mn0.3-xCuxFe2O4 ( $x = 0.0, 0.05, 0.1, 0.15$ and 0.2) nano-ferrites	View
58.	Proposing a reliable method of securing and verifying the credentials of graduates through blockchain	View
59.	Safety Risk Assessment and Risk Prediction in Underground Coal Mines Using Machine Learning Techniques	View
60.	A novel compact fractal UWB antenna with dual band notched characteristics	View
61.	Appreciation of "Morning Bells"	View
62.	Female Empowerment Through Ecological Restoration and Preservation (Analysis of Wangari Maathai's Unbowed)	View
63.	Creating Awareness and Importance of 'English' For Students Hailing From Rural Areas	View
64.	The problems faced by the rural students in conversing in English and proposed solutions to develop their communication skills	View

S. No.	Title of the Paper	Link of the Document
65.	Development of Different irrigation Systems Calculator using VB6	View
66.	Influence of steel and PP fibers on mechanical and microstructural properties of fly ash-GGBFS based geopolymer composites	View
67.	Direct utilization of preheated deep fried oil in an indirect injection compression ignition engine with waste heat recovery framework	View
68.	An optimized technique for copy-move forgery localization using statistical features	View
69.	Design of MFA-PSO based fractional order PID controller for effective torque controlled BLDC motor	View
70.	Load Balancing in RPL to Avoid Hotspot Problem for Improving Data Aggregation in IOT	View