



BVRIT HYDERABAD College of Engineering for Women

Nizampet Road, Bachupally, Hyderabad-500090

Department of Electrical and Electronics Engineering

Publications with Indexing Count

| Category | 2024-25 | 2023-24 | 2022-23 | 2021-22 |
|--------------|-----------|-----------|-----------|-----------|
| Scopus | 20 | 24 | 14 | 13 |
| WoS | 0 | 3 | 0 | 5 |
| SCIE | 4 | 4 | 3 | 0 |
| Others | 0 | 14 | 4 | 1 |
| Total | 24 | 45 | 21 | 19 |

Journals with Indexing Count

| Category | 2024-25 | 2023-24 | 2022-23 | 2021-22 |
|--------------|-----------|-----------|----------|-----------|
| Scopus | 7 | 10 | 2 | 6 |
| WoS | 0 | 0 | 0 | 5 |
| SCIE | 4 | 4 | 3 | 0 |
| Others | 0 | 6 | 2 | 0 |
| Total | 11 | 20 | 7 | 11 |

Conferences with Indexing Count

| Category | 2024-25 | 2023-24 | 2022-23 | 2021-22 |
|--------------|-----------|-----------|-----------|----------|
| Scopus | 11 | 11 | 11 | 7 |
| WoS | 0 | 2 | 0 | 0 |
| SCIE | 0 | 0 | 0 | 0 |
| Others | 0 | 3 | 2 | 1 |
| Total | 11 | 16 | 13 | 8 |

Book Chapters with Indexing Count

| Category | 2024-25 | 2023-24 | 2022-23 | 2021-22 |
|--------------|----------|----------|----------|----------|
| Scopus | 2 | 3 | 1 | 0 |
| WoS | 0 | 1 | 0 | 0 |
| SCIE | 0 | 0 | 0 | 0 |
| Others | 0 | 1 | 0 | 0 |
| Total | 2 | 5 | 1 | 0 |

BVRIT HYDERABAD College of Engineering for Women
Nizampet Road, Bachupally, Hyderabad-500090
Department of Electrical and Electronics Engineering

2024-25

List of faculty publications

| S. No. | Name of the Faculty | Conference /Journal/Book/ Book Chapter | Title of the Paper | Name of the Journal / Conference/Book | Volume | Issue | Index | Year | Month | ISSN/ ISBN |
|--------|---------------------|----------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|--------|-------|--------|------|-------|-------------------|
| 1 | Dr. Ch. Sunil Kumar | C | Exploring Electric Vehicle Price Prediction and Characteristics | 2025 7th International Conference on Inventive Material Science and Applications (ICIMA), Namakkal, India | NA | NA | Scopus | 2025 | 7 | 979-8-3315-2151-6 |
| 2 | | C | Deep Learning Models for Predictive Stability in Renewable Energy | International Conference on Automation & Computation (AUTOCOM-2025) | NA | NA | Scopus | 2025 | 4 | 979-8-3315-4237-5 |
| 3 | | J | Analysis and simulation of 7-level and 9-level cascaded H-bridge multi-level inverters | International Journal of Applied Power Engineering (IJAPE) | 14 | 1 | Scopus | 2025 | 3 | 2252-8792 |
| 4 | | C | Saline Level Intelligent Monitoring System utilizing GSM Module | International Conference on Computational Intelligence for Green and | NA | NA | Scopus | 2024 | 10 | 979-8-3503-8188-7 |

| S. No . | Name of the Faculty | Conference /Journal/Book/ Book Chapter | Title of the Paper | Name of the Journal / Conference/Book | Volume | Issue | Index | Year | Month | ISSN/ ISBN |
|---------|---------------------|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|--------|--------|--------|------|-------|-------------------|
| | | | | Sustainable Technologies (ICIGST) | | | | | | |
| 5 | | J | Performance enhancement of PEO: LiDFOB based nanocomposite solid polymer electrolytes via incorporation of POSS-PEG13.3 hybrid nanoparticles for solid-state Li-ion batteries | Journal of Physics and Chemistry of Solids | 196 | 112319 | Scopus | 2024 | 9 | 0022-3697 |
| 6 | Mr. R. Guruswamy | J | An Improved Human Evolutionary Optimization Algorithm for Optimal Integration of Hybrid Fast Charging Stations | International Journal of Intelligent Engineering and Systems | 18 | 4 | Scopus | 2025 | 3 | 2185-3118 |
| 7 | Ms. B. Sujatha | C | Exploring Electric Vehicle Price Prediction and Characteristics | 2025 7th International Conference on Inventive Material Science and Applications (ICIMA), Namakkal, India | NA | NA | Scopus | 2025 | 7 | 979-8-3315-2151-6 |
| 8 | | C | Deep Learning Models for Predictive Stability in Renewable Energy | International Conference on Automation & Computation (AUTOCOM-2025) | NA | NA | Scopus | 2025 | 4 | 979-8-3315-4237-5 |

| S. No . | Name of the Faculty | Conference /Journal/Book/ Book Chapter | Title of the Paper | Name of the Journal / Conference/Book | Volume | Issue | Index | Year | Month | ISSN/ ISBN |
|---------|---------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------|-------|--------|------|-------|-------------------|
| 9 | Ms. Babita Gupta | J | Analysis and simulation of 7-level and 9-level cascaded H-bridge multi-level inverters | International Journal of Applied Power Engineering (IJAPE) | 14 | 1 | Scopus | 2025 | 3 | 2252-8792 |
| 10 | | C | Saline Level Intelligent Monitoring System utilizing GSM Module | International Conference on Computational Intelligence for Green and Sustainable Technologies (ICIGST) | NA | NA | Scopus | 2024 | 10 | 979-8-3503-8188-7 |
| 11 | | C | ESP32-Based Fan Speed Regulation System | International Conference on Computational Intelligence for Green and Sustainable Technologies (ICIGST) | NA | NA | Scopus | 2024 | 10 | 979-8-3503-8188-7 |
| 12 | | J | Effective Energy Management System in Microgrid Employing Model Predictive Controller | International Journal of Electrical and Electronics Research | 12 | 4 | Scopus | 2024 | 10 | 1136-1141 |
| 13 | Ms. Babita Gupta | C | Techno Assessment of Distribution System with Integration of Different Types of Distributed Generators | 2024 International Conference on Sustainable Power & Energy (ICSPE) | NA | NA | Scopus | 2025 | 3 | 979-8-3503-6605-1 |

| S. No . | Name of the Faculty | Conference /Journal/Book/ Book Chapter | Title of the Paper | Name of the Journal / Conference/Book | Volume | Issue | Index | Year | Month | ISSN/ ISBN |
|---------|---------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------|-------|--------|------|-------|-------------------|
| 14 | Dr. K. Bhavya | C | ESP32-Based Fan Speed Regulation System | international Conference on Computational Intelligence for Green and Sustainable Technologies (ICCIGST) | NA | NA | Scopus | 2024 | 10 | 979-8-3503-8188-7 |
| 15 | Dr. M Rupesh | C | Comparative Analysis of a Pilot Experiment's Outcomes, at the Vishnu Educational Development and Innovation Centre, of the COACH_ING Model in Use at the Sapienza Faculty of Civil and Industrial Engineering | 27th International Conference on Interactive Collaborative Learning | 1261 | NA | Scopus | 2025 | 3 | 978-3-031-85649-5 |
| 16 | | J | Reconfiguration of the radial distribution network using an artificial rabbits optimization approach | Bulletin of Electrical Engineering and Informatics | 16 | 3 | Scopus | 2024 | 12 | 2302-9285 |
| 17 | Dr. R. Manojkumar | BC | Rule-Based Energy Management Optimized With Artificial Intelligence and a Case Study Analysis | AI and Ecological Change for Sustainable Development | NA | NA | Scopus | 2025 | 6 | 9798337306803 |
| 18 | | BC | Machine Learning and Federated Learning in Industrial Cybersecurity | AI-Enhanced Cybersecurity for Industrial Automation | NA | NA | Scopus | 2025 | 5 | 9798337332413 |
| 19 | | J | Open Discussion Forums and Effective Group Division for | Journal of Engineering Education | 38 | 2 | Scopus | 2025 | 5 | 2394 - 1707 |

| S. No . | Name of the Faculty | Conference /Journal/Book/ Book Chapter | Title of the Paper | Name of the Journal / Conference/Book | Volume | Issue | Index | Year | Month | ISSN/ ISBN |
|---------|---------------------|----------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|--------|-------|--------|------|-------|-------------------|
| | | | Improved Student Engagement in Teaching Learning Process | Transformations | | | | | | |
| 20 | | C | Electrical Parameters Data Extraction for Effective Monitoring and Controlling of Smart Buildings | International Conference on Sustainable Power and Energy 2024 28th -29th November | NA | NA | Scopus | 2025 | 3 | 979-8-3503-6605-1 |
| 21 | | C | Rule-Based Peak Shaving Using Battery Energy Storage with a Case Study Analysis | 2024 2nd International Conference on Cyber Physical Systems, Power Electronics and Electric Vehicles (ICPEEV) | NA | NA | Scopus | 2025 | 3 | 979-8-3503-8866-4 |
| 22 | | C | Modbus Communication Based Data Extraction Energy Monitoring System | 2024 International Conference on Smart Electronics and Communication Systems (ISENSE) | NA | NA | Scopus | 2025 | 2 | 979-8-3315-2812-6 |
| 23 | | C | Voltage Control in Low Voltage Distribution Systems Using Smart Power Converter | 2024 International Conference on Electrical Electronics | NA | NA | Scopus | 2024 | 11 | 979-8-3503-7809-2 |

| S. No . | Name of the Faculty | Conference /Journal/Book/ Book Chapter | Title of the Paper | Name of the Journal / Conference/Book | Volume | Issue | Index | Year | Month | ISSN/ ISBN |
|---------|----------------------|----------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------|-------|--------|------|-------|-------------------|
| | | | | and Computing Technologies (ICEECT) | | | | | | |
| 24 | | J | Optimised rule-based peak shaving and its impact on annual energy cost reduction | International Journal of Ambient Energy | 45 | 1 | Scopus | 2024 | 9 | 2162-8246 |
| 25 | Dr. B. Srinivasa Rao | C | Electrical Parameters Data Extraction for Effective Monitoring and Controlling of Smart Buildings | International Conference on Sustainable Power and Energy 2024 28th -29th November | NA | NA | Scopus | 2025 | 3 | 979-8-3503-6605-1 |
| 26 | | C | Modbus Communication Based Data Extraction Energy Monitoring System | 2024 International Conference on Smart Electronics and Communication Systems (ISENSE) | NA | NA | Scopus | 2025 | 2 | 979-8-3315-2812-6 |
| 27 | Dr. C. Krishna Reddy | C | Electrical Parameters Data Extraction for Effective Monitoring and Controlling of Smart Buildings | International Conference on Sustainable Power and Energy 2024 28th -29th November | NA | NA | Scopus | 2025 | 3 | 979-8-3503-6605-1 |

| S. No . | Name of the Faculty | Conference /Journal/Book/ Book Chapter | Title of the Paper | Name of the Journal / Conference/Book | Volume | Issue | Index | Year | Month | ISSN/ ISBN |
|---------|-------------------------|----------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------|-------|--------|------|-------|-------------------|
| 28 | | C | Modbus Communication Based Data Extraction Energy Monitoring System | 2024 International Conference on Smart Electronics and Communication Systems (ISENSE) | NA | NA | Scopus | 2025 | 2 | 979-8-3315-2812-6 |
| 29 | Dr. Prasanta Kumar Jena | J | A Generalized Stealth Attack Localization Framework for Smart Grid Network Under Real-Time Test Environment | IEEE Transactions on Industrial Informatics | NA | NA | SCI | 2025 | 7 | 1551-3203 |
| 30 | | BC | Machine Learning and Federated Learning in Industrial Cybersecurity | AI-Enhanced Cybersecurity for Industrial Automation | NA | NA | Scopus | 2025 | 5 | 9798337332413 |
| 31 | | C | Electrical Parameters Data Extraction for Effective Monitoring and Controlling of Smart Buildings | International Conference on Sustainable Power and Energy 2024 28th -29th November | NA | NA | Scopus | 2025 | 3 | 979-8-3503-6605-1 |
| 32 | | C | Modbus Communication Based Data Extraction Energy Monitoring System | 2024 International Conference on Smart Electronics and Communication Systems (ISENSE) | NA | NA | Scopus | 2025 | 2 | 979-8-3315-2812-6 |

| S. No . | Name of the Faculty | Conference /Journal/Book/ Book Chapter | Title of the Paper | Name of the Journal / Conference/Book | Volume | Issue | Index | Year | Month | ISSN/ ISBN |
|---------|----------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------|-------|--------|------|-------|-------------------|
| 33 | | C | A Protection Scheme for Fault Identification in AC Microgrid Using LDA-Based Algorithm | 2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICCIGST) | NA | NA | Scopus | 2024 | 11 | 979-8-3503-8188-7 |
| 34 | | J | Design of Real-Time False Data Injection Attack on Electricity Market With Limited Sensor Accessibility | IEEE Systems Journal | NA | NA | SCI | 2024 | 10 | 1937-9234 |
| 35 | Dr. C. Venkata Subba Reddy | J | A Modified Direct Torque Control Approach With Carrier-Based Torque and Flux Controllers for Improvement of Steady-State Performance of Five-Phase Induction Motor | International Journal of Circuit Theory and Applications | NA | NA | SCI | 2025 | 6 | 0098-9886 |
| 36 | | J | Minimization of Flux and Torque Ripples of FPOEW Induction Motor with FCS-MPTC using Synthetic Voltage Vectors | IEEE Latin America Transactions | 22 | 11 | SCI | 2024 | 11 | 1548-0992 |

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2023-24

List of faculty publications

| S. No. | Name of the Faculty | Type of Publication | Title of the Paper | Journal/Conference/Book Name | Volume | Issue | Indexing | Month | Year | ISSN/ISBN |
|--------|-----------------------|---------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------|-------|-------------|-------|------|-------------------|
| 1 | Dr. Chava Sunil Kumar | J | Machine Learning Techniques for Power Quality Enhancement of Power Distribution Systems with FACTS devices | Engineering, Technology & Applied Science Research | 14 | 4 | Scopus | 8 | 2024 | 2241-4487 |
| 2 | | Book | | Harmonics Elimination in Self-Excited Wind Power Plant using Power Quality Compensators | NA | NA | Not Indexed | 8 | 2024 | 978-93-6135-543-1 |
| 3 | | J | Control of a stand-alone variable speed wind turbine generator system | International Journal of Applied Power Engineering (IJAPE) | 13 | 3 | Scopus | 7 | 2024 | 2252-8792 |
| 4 | | J | Influence of Hybrid FACTS Device and STATCOM on Power Quality Improvement of Wind Farm | Journal of Electrical Systems | 20 | 10s | Scopus | 7 | 2024 | 1112-5209 |

| S. No. | Name of the Faculty | Type of Publication | Title of the Paper | Journal/Conference/Book Name | Volume | Issue | Indexing | Month | Year | ISSN/ISBN |
|--------|---------------------|---------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------|-------|-------------|-------|------|-------------------|
| 5 | | J | Power Quality Improvement of Thyristor Controlled Reactor using Harmonic Filters | Journal of Electrical Systems | 20 | 10s | Scopus | 7 | 2024 | 1112-5210 |
| 6 | | J | A Comparative Assessment of Ferranti Effect in Power Transmission Systems with PI Model and Distributed Line models | International Journal of Intelligent Systems and Applications in Engineering (IJISAE) | 12 | 22s | Scopus | 7 | 2024 | 2147-6799 |
| 7 | | J | Power Quality Improvement of Wind Power Plant using STATCOM and Harmonic Filters | International Journal of Intelligent Systems and Applications in Engineering (IJISAE) | 12 | 22s | Scopus | 7 | 2024 | 2147-6799 |
| 8 | | Book | | Power Pool Control Using Fuzzy Logic | NA | NA | Not Indexed | 7 | 2024 | 978-93-6135-690-2 |
| 9 | | J | ANFIS-based optimisation for achieving the maximum torque per ampere in induction motor drive with conventional PI | International Journal of Applied Power Engineering (IJAPE) | 13 | 2 | Scopus | 6 | 2024 | 2252-8792 |
| 10 | | C | Enhancing Borewell Rescue with Automation | 2024 International Conference on Cognitive Robotics and Intelligent Systems (ICC - ROBINS), | NA | NA | Scopus | 5 | 2024 | 979-8-3503-7274-8 |

| S. No. | Name of the Faculty | Type of Publication | Title of the Paper | Journal/Conference/Book Name | Volume | Issue | Indexing | Month | Year | ISSN/ISBN |
|--------|----------------------|---------------------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------|-------|-------------|-------|------|-------------------|
| | | | | Coimbatore, India, 2024 | | | | | | |
| 11 | | J | Enhancing the performance of sustainable energy management of buildings in smart cities | Indonesian Journal of Electrical Engineering and Computer Science | 33 | 3 | Scopus | 3 | 2024 | 2502-4752 |
| 12 | | C | RFID Time and Attendance System based on IoT Technology | 2023 IEEE 2nd International Conference on Automation, Computing and Renewable Systems (ICACRS), Pudukkottai, India, 2023 | NA | NA | Scopus | 1 | 2024 | 979-8-3503-4023-5 |
| 13 | Mr. Guruswamy Revana | BC | Review work on machine learning approaches for predicting the remaining lifespan of lithium-ion batteries | A Sustainable Future with E-Mobility: Concepts, Challenges, and Implementations | NA | NA | Scopus | 6 | 2024 | 9798369352472 |
| 14 | | C | Prediction of Battery Life Cycle Using Machine Learning Algorithm | International conference on Information Technologies and Smart Systems (ICITSS 2024) | NA | NA | Not Indexed | 4 | 2024 | 978-81-968751-8-3 |

| S. No. | Name of the Faculty | Type of Publication | Title of the Paper | Journal/Conference/Book Name | Volume | Issue | Indexing | Month | Year | ISSN/ISBN |
|--------|---------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------|-------|-------------|-------|------|-------------------|
| 15 | | C | Smart Voice Assistant: the Fusion of Hardware and Advanced AI | International conference in Emerging Advances and Applications in Green Energy (ICEAAGE 2024 | NA | NA | Not Indexed | 2 | 2024 | 978-93-6128-558-5 |
| 16 | | C | Enhanced Surveillance System: Smart Motion Detection Camera | International conference in Emerging Advances and Applications in Green Energy (ICEAAGE 2024 | NA | NA | Not Indexed | 2 | 2024 | 978-93-6128-558-5 |
| 17 | | J | Intelligent Planning and Operation of Power Systems during Load Change: A Case Study of Indian Scenario during Covid-19 Pandemic | Journal of Xidian University | 7 | 10 | Not Indexed | 10 | 2023 | 1001-2400 |
| 18 | Dr. K.Amritha | Book | | Renewable Energy Systems: Integration and Optimization | NA | NA | Not Indexed | 7 | 2024 | 978-81-969706-8-0 |
| 19 | | BC | Optimized Control of an Isolated Wind Energy Conversion System | Energy and Environmental Aspects of Emerging Technologies for Smart Grid”. | NA | NA | Scopus | 5 | 2024 | 978-3-031-18389-8 |

| S. No. | Name of the Faculty | Type of Publication | Title of the Paper | Journal/Conference/Book Name | Volume | Issue | Indexing | Month | Year | ISSN/ISBN |
|--------|---------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------|-------|-------------|-------|------|-------------------|
| 20 | | C | Water Quality Sensor based on IoT | 2023 3rd International Conference on Pervasive Computing and Social Networking (ICPCSN) | NA | NA | Scopus | 10 | 2023 | 979-8-3503-2284-2 |
| 21 | | J | Intelligent Planning and Operation of Power Systems during Load Change: A Case Study of Indian Scenario during Covid-19 Pandemic | Journal of Xidian University | 7 | 10 | Not Indexed | 10 | 2023 | 1001-2400 |
| 22 | | J | Integrating Solar and Wind Power for Sustainable Electrification | International Journal of All Research Education and Scientific Methods (IJARESM) | 11 | 9 | Not Indexed | 9 | 2023 | 2455-6211 |
| 23 | Ms. B. Sujatha | C | Decoding Market Signals: Unveiling the Dynamics of Stock Sentiment Through Headlines Analysis | 2024 2nd International Conference on Sustainable Computing and Smart Systems (ICSCSS) | NA | NA | Scopus | 8 | 2024 | 979-8-3503-7999-0 |
| 24 | | J | Control of a stand-alone variable speed wind turbine generator system | International Journal of Applied Power Engineering (IJAPE) | 13 | 3 | Scopus | 7 | 2024 | 2252-8792 |

| S. No. | Name of the Faculty | Type of Publication | Title of the Paper | Journal/Conference/Book Name | Volume | Issue | Indexing | Month | Year | ISSN/ISBN |
|--------|---------------------|---------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|--------|-------|-------------|-------|------|-------------------|
| 25 | | C | Enhancing Borewell Rescue with Automation | 2024 International Conference on Cognitive Robotics and Intelligent Systems (ICC - ROBINS), Coimbatore, India, 2024 | NA | NA | Scopus | 5 | 2024 | 979-8-3503-7274-8 |
| 26 | | C | Securing Fintech: A Machine Learning Approach for Credit Card Fraud Detection, | 2024 International Conference on Cognitive Robotics and Intelligent Systems (ICC - ROBINS), Coimbatore, India, 2024 | NA | NA | Scopus | 5 | 2024 | 979-8-3503-7274-8 |
| 27 | | C | Smart Kitchen Monitoring System using IoT Technology | 2024 International Conference on Automation and Computation (AUTOCOM), Dehradun, India, 2024 | NA | NA | Scopus | 4 | 2024 | 979-8-3503-8272-3 |
| 28 | | BC | Power Quality Improvement in Distribution System | "Power Quality - New Insights " by IntechOpen Publisher | NA | NA | Not Indexed | 2 | 2024 | 978-981-19-8562-1 |

| S. No. | Name of the Faculty | Type of Publication | Title of the Paper | Journal/Conference/Book Name | Volume | Issue | Indexing | Month | Year | ISSN/ISBN |
|--------|---------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------|-------|-------------|-------|------|-------------------|
| 29 | | C | RFID Time and Attendance System based on IoT Technology | 2023 IEEE 2nd International Conference on Automation, Computing and Renewable Systems (ICACRS), Pudukkottai, India, 2023 | NA | NA | Scopus | 1 | 2024 | 979-8-3503-4023-5 |
| 30 | | J | Intelligent Planning and Operation of Power Systems during Load Change: A Case Study of Indian Scenario during Covid-19 Pandemic | Journal of Xidian University | 7 | 10 | Not Indexed | 10 | 2023 | 1001-2400 |
| 31 | | J | Patient Health Monitoring System using IoT Technology | International Journal of Creative Research Thoughts (IJCRT) | 11 | 10 | Not Indexed | 10 | 2023 | 2320-2882 |
| 32 | | J | Solar-Wind Hybrid Power Generation System | International Journal of Creative Research Thoughts (IJCRT) | 11 | 10 | Not Indexed | 10 | 2023 | 2320-2882 |
| 33 | Ms. Babita Gupta | C | Hybrid Approach to Place Wind Distributed Generators in Distribution System | International Conference on Intelligent Circuits and Systems (ICICS 2023) | NA | NA | Scopus | 7 | 2024 | 9.8E+12 |

| S. No. | Name of the Faculty | Type of Publication | Title of the Paper | Journal/Conference/Book Name | Volume | Issue | Indexing | Month | Year | ISSN/ISBN |
|--------|---------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|--------|-------|-------------|-------|------|-------------------|
| 34 | | J | Enhancing Power System Analysis Through Graph topology | IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) | 18 | 5 | Not Indexed | 10 | 2023 | 2320-3331 |
| 35 | | J | Intelligent Planning and Operation of Power Systems during Load Change: A Case Study of Indian Scenario during Covid-19 Pandemic | Journal of Xidian University | 7 | 10 | Not Indexed | 10 | 2023 | 1001-2400 |
| 36 | Ms. K. Bhavya | C | Securing Fintech: A Machine Learning Approach for Credit Card Fraud Detection, | 2024 International Conference on Cognitive Robotics and Intelligent Systems (ICC - ROBINS), Coimbatore, India, 2024 | NA | NA | Scopus | 5 | 2024 | 979-8-3503-7274-8 |
| 37 | | C | Smart Kitchen Monitoring System using IoT Technology | 2024 International Conference on Automation and Computation (AUTOCOM), Dehradun, India, 2024 | NA | NA | Scopus | 4 | 2024 | 979-8-3503-8272-3 |
| 38 | | BC | Power Quality Improvement in Distribution System | "Power Quality - New Insights " by | NA | NA | Not Indexed | 2 | 2024 | 978-981-19-8562-1 |

| S. No. | Name of the Faculty | Type of Publication | Title of the Paper | Journal/Conference/Book Name | Volume | Issue | Indexing | Month | Year | ISSN/ISBN |
|--------|----------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|-------|-------------|-------|------|-----------|
| | | | | IntechOpen Publisher | | | | | | |
| 39 | | J | Comparative Performance analysis of DVR & DSTATCOM for Distributed Generation with Gravitational Search Algorithm | Scientific and Technical Journal of Information Technologies Mechanics and Optics | 23 | | Scopus | 11 | 2023 | 2226-1494 |
| 40 | | J | Intelligent Planning and Operation of Power Systems during Load Change: A Case Study of Indian Scenario during Covid-19 Pandemic | Journal of Xidian University | 7 | 10 | Not Indexed | 10 | 2023 | 1001-2400 |
| 41 | Mr. M Rupesh | J | Artificial rabbits optimization based reconfiguration and distributed generation allotment in the distribution network | International Journal of Power Electronics and Drive Systems (JPEDS) | 15 | 3 | Scopus | 7 | 2024 | 2088-8694 |
| 42 | | J | Empyreal Promulgation Network for Improving the Power Quality using Squat PV System and Redeem Circuit | Journal of New Materials for Electrochemical Systems | 26 | 4 | SCIE | 11 | 2023 | 1480-2422 |
| 43 | Mr. M. Sandeep Kumar | J | Intelligent Planning and Operation of Power Systems during Load Change: A Case Study of Indian Scenario during Covid-19 Pandemic | Journal of Xidian University | 7 | 10 | Not Indexed | 10 | 2023 | 1001-2400 |

| S. No. | Name of the Faculty | Type of Publication | Title of the Paper | Journal/Conference/Book Name | Volume | Issue | Indexing | Month | Year | ISSN/ISBN |
|--------|---------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|-------|----------|-------|------|-------------------|
| 44 | Dr. R. Manojkumar | C | Optimal Sizing Capacities of Solar Photovoltaic and Battery Energy Storage Systems for Grid-Connected Commercial Buildings in Malaysia | International Green Energy Conference | NA | NA | Scopus | 4 | 2024 | 978-3-031-48902-0 |
| 45 | | C | Optimizing Battery Energy Storage and Solar Photovoltaic Systems for Commercial Buildings in Malaysia: A Case Study | 2023 IEEE International Conference on Energy Technologies for Future Grids (ETFG) | NA | NA | WoS | 2 | 2024 | 978-1-6654-7164-0 |
| 46 | | C | Power Management of a Smart Transformer based Ship Microgrid | 2023 11th National Power Electronics Conference (NPEC) | NA | NA | WoS | 1 | 2024 | 979-8-3503-1164-8 |
| 47 | | J | Optimal peak-shaving for dynamic demand response in smart Malaysian commercial buildings utilizing an efficient PV-BES system | Sustainable Cities and Society | 101 | NA | SCIE | 12 | 2023 | 2210-6707 |
| 48 | | C | Artificial Intelligence and Internet of Things Applications in Smart Grid Security: A Survey | Accelerating Discoveries in Data Science and Artificial Intelligence II | NA | NA | Scopus | 12 | 2023 | 978-3-031-51162-2 |
| 49 | | J | Net Load Forecast Error Compensation for Peak Shaving in a Grid- | IEEE Transactions on Power Systems | 39 | 2 | SCIE | 9 | 2023 | 0885-8950 |

| S. No. | Name of the Faculty | Type of Publication | Title of the Paper | Journal/Conference/Book Name | Volume | Issue | Indexing | Month | Year | ISSN/ISBN |
|--------|----------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------|-------|-------------|-------|------|-------------------|
| | | | Connected PV Storage System | | | | | | | |
| 50 | Mr. C. Krishna Reddy | J | Energy Management Strategy for Hybrid Energy Storage - Electric Vehicles Based on Intelligent Controllers | Indian Journal of Natural Sciences | 15 | 83 | Not Indexed | 4 | 2024 | 0976 – 0997 |
| 51 | | C | Transposition Reconfiguration Technique for Improved Power Generation from Photovoltaic Arrays under Non-Uniform Irradiance | International Conference on Smart Technologies For Smart Nation (SmartTechCon) | NA | NA | Scopus | 1 | 2024 | 9.8E+12 |
| 52 | | Book | | Elements of Electrical Engineering | NA | NA | Not Indexed | 10 | 2023 | 978-81-965812-9-9 |
| 53 | Dr. Prasanta Kumar Jena | BC | Techno-Economic Comparative Analysis of On-Ground and Floating PV Systems: A Case Study at Gangrel Dam, India | Photovoltaic Systems Technology | 1 | NA | Scopus | 5 | 2024 | 9.8E+12 |
| 54 | | BC | Strategic deployment of advanced measuring instruments to enhance robustness of state estimation in smart grid against cyberattacks | Smart Metering | NA | NA | WoS | 3 | 2024 | 978-0-443-15317-4 |
| 55 | Dr. C. Venkata Subba Reddy | C | A Modified Direct Torque Control of a Five-Phase Induction Motor for Harmonic Current | Select Proceedings of EPREC 2023 | 2 | NA | Scopus | 3 | 2024 | 978-981-99-9438-0 |

| S. No. | Name of the Faculty | Type of Publication | Title of the Paper | Journal/Conference/Book Name | Volume | Issue | Indexing | Month | Year | ISSN/ISBN |
|--------|---------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------|-------|----------|-------|------|-----------|
| | | | Elimination and Reduction of Common Mode Voltage | | | | | | | |
| 56 | | J | An Isolation Transformer-less Single DC Source fed Dual 5-leg Inverter Controlled 5-Phase Induction Motor with Modified Direct Torque Control | IEEE Latin America Transactions | 22 | 3 | SCIE | 3 | 2024 | 1548-0992 |



BVRIT HYDERABAD College of Engineering for Women
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Department of Electrical and Electronics Engineering

2022-23

List of faculty publications

| S. No. | Name of the Faculty | Type of Publication | Title of the Paper | Journal/Conference/Book Name | Volume | Issue | Indexing | Month | Year | ISSN/ISBN |
|--------|---------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------|-------|-------------|-------|------|-------------------|
| 1 | Dr. Chava Sunil Kumar | C | Modelling and Implementation of SEPIC Converter for Electric Vehicle Application | INTERNATIONAL CONFERENCE ON SMART SYSTEMS AND GREEN ENERGY TECHNOLOGIES (ICSGET 2022) | NA | NA | Not Indexed | 2 | 2023 | 9788770229647 |
| 2 | | C | A Novel controller for Multiple-Input Bidirectional DC-DC Power Converter of HESS for DC Microgrid Applications | Seventh International Conference on Information System Design and Intelligent Applications | NA | NA | Scopus | 10 | 2022 | 978-981-19-4989-0 |
| 3 | Dr. Rajeswari Viswanathan | C | Voltage Stability Analysis for Distribution Network Using D-STATCOM | Fourth International Conference on Computer and Communication Technologies | 606 | NA | Scopus | 3 | 2023 | 978-981-19-8563-8 |
| 4 | Mr. Guruswamy Revana | C | Voltage Stability Analysis for Distribution Network Using D-STATCOM | Fourth International Conference on Computer and Communication Technologies | 606 | NA | Scopus | 3 | 2023 | 978-981-19-8563-8 |

| S. No. | Name of the Faculty | Type of Publication | Title of the Paper | Journal/Conference/Book Name | Volume | Issue | Indexing | Month | Year | ISSN/ISBN |
|--------|---------------------|---------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------|-------|----------|-------|------|----------------------|
| 5 | Ms. B. Sujatha | C | Web Application for Air Quality Index Monitoring System Using ThingSpeak | International Conference on Soft Computing for Security Applications | NA | NA | Scopus | 7 | 2023 | 978-981-99-3608-3 |
| 6 | | C | LED Driver with an Efficient Interleaved Buck Converter | ICIMES 2022, Hyderabad, | 334 | NA | Scopus | 6 | 2023 | 978-981-19-8497-6_58 |
| 7 | | C | A Novel Method for Fire Detection and Alarming Notification using IoT Technology | Second International Conference on Electronics and Renewable Systems (ICEARS) | NA | NA | Scopus | 4 | 2023 | 979-8-3503-4664-0 |
| 8 | | C | Power Quality Enhancement in Distribution System Using Ultracapacitor Integrated Power Conditioner | Fourth International Conference on Computer and Communication Technologies | 606 | NA | Scopus | 3 | 2023 | 978-981-19-8563-8_58 |
| 9 | | C | Web Application for Solar Data Monitoring Using IoT Technology | Fourth International Conference on Computer and Communication Technologies | 606 | NA | Scopus | 3 | 2023 | 978-981-19-8563-8_57 |
| 10 | | C | HESS-Based Bi-Directional DC-DC Converter with Adaptive Control Strategy | 2022 IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation (SeFeT) | NA | NA | Scopus | 10 | 2022 | 978-1-6654-8057-4 |

| S. No. | Name of the Faculty | Type of Publication | Title of the Paper | Journal/Conference/Book Name | Volume | Issue | Indexing | Month | Year | ISSN/ISBN |
|--------|---------------------|---------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------|-------|-------------|-------|------|----------------------|
| 11 | Mr. G. Sandeep | C | Design of solar power inverter | International Conference On Intelligent Computing Techniques In Electrical Energy System (Icietees) | NA | NA | Scopus | 5 | 2023 | 1551-7616 |
| 12 | | C | Broken Rotor Bar Fault in 3- Φ Squirrel-Cage Induction Motors: A Critical Observations | 2023 International Conference on Power, Instrumentation, Control and Computing (PICC) | NA | NA | Scopus | 4 | 2023 | 979-8-3503-3446-3 |
| 13 | Ms. Babita Gupta | J | Steel Bloom Manufacturing From IOT based scrap managment& ironore consumption system | European Chemical Bulletin | 12 | 3 | Not Indexed | 7 | 2023 | 2063-5346 |
| 14 | | C | Voltage Stability Analysis for Distribution Network Using D-STATCOM | Fourth International Conference on Computer and Communication Technologies | 606 | NA | Scopus | 3 | 2023 | 978-981-19-8563-8 |
| 15 | Ms. P. Subhashitha | C | Power Quality Enhancement in Distribution System Using Ultracapacitor Integrated Power Conditioner | Fourth International Conference on Computer and Communication Technologies | 606 | NA | Scopus | 3 | 2023 | 978-981-19-8563-8_58 |
| 16 | Ms. K. Bhavya | C | A Novel Method for Fire Detection and Alarming Notification using IoT Technology | Second International Conference on Electronics and | NA | NA | Scopus | 4 | 2023 | 979-8-3503-4664-0 |

| S. No. | Name of the Faculty | Type of Publication | Title of the Paper | Journal/Conference/Book Name | Volume | Issue | Indexing | Month | Year | ISSN/ISBN |
|--------|---------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|--------|-------|-------------|-------|------|---------------------------------------|
| | | | | Renewable Systems (ICEARS) | | | | | | |
| 17 | | C | Simulation of DSTATCOM for Distribution Generation based System with Various Algorithms | National Conference (INAC-05) on Systems Approach for Self-Reliance in Advanced Technologies (SASAT-2023) | - | - | Not indexed | 3 | 2023 | 978-93-95038-50-8 |
| 18 | | C | Power Quality Enhancement in Distribution System Using Ultracapacitor Integrated Power Conditioner | Lecture Notes in Networks and Systems 606 | 606 | NA | Scopus | 3 | 2023 | 978-981-19-8563-8_58 |
| 19 | | J | Performance Evaluation of Weighted Feedback Based UPQC under Various Power Quality Issues | International Journal of Engineering | 36 | 3 | Scopus | 3 | 2023 | 1025-2495 |
| 20 | | J | Analysis and Comparison of Performance of Interline Power Flow Controller with Various Control Algorithms under Various Power Stability Problems | Traitement du Signal | 39 | 5 | SCIE | 10 | 2022 | 0765-0019 (print); 1958-5608 (online) |
| 21 | Mr. M Rupesh | J | Cascade Feed forward Neural Network and Deep Neural Network Controller on | Journal of Mechatronics, Electrical Power, | 13 | 2 | Scopus | 12 | 2022 | 2088-6985 |

| S. No. | Name of the Faculty | Type of Publication | Title of the Paper | Journal/Conference/Book Name | Volume | Issue | Indexing | Month | Year | ISSN/ISBN |
|--------|------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------|-------|-------------|-------|------|-------------------|
| | | | Photovoltaic System with Cascaded Multilevel Inverters: Comparison on Standalone and Grid Integrated System | and Vehicular Technology | | | | | | |
| 22 | | C | A Novel controller for Multiple-Input Bidirectional DC-DC Power Converter of HESS for DC Microgrid Applications | Seventh International Conference on Information System Design and Intelligent Applications | NA | NA | Scopus | 10 | 2022 | 978-981-19-4989-0 |
| 23 | Mr. Ch. Santhosh Kumar | J | Implementation of E-Bicycle with Smart Display | International Journal of Advanced Research in Science, Communication and Technology (IJARSCT) | 2 | 2 | Not Indexed | 10 | 2022 | 2581-9429 |
| 24 | Dr. P. Srinivas | C | A Novel controller for Multiple-Input Bidirectional DC-DC Power Converter of HESS for DC Microgrid Applications | Seventh International Conference on Information System Design and Intelligent Applications | NA | NA | Scopus | 10 | 2022 | 978-981-19-4989-0 |
| 25 | | BC | Energy Storage for Distributed Energy Resources | Renewable Energy Technologies | NA | NA | Scopus | 9 | 2022 | 9781119827504 |
| 26 | Dr. R. Manojkumar | J | A Grid-Connected Optimal Hybrid PV-BES System Sizing for Malaysian Commercial Buildings | Sustainability & MDPI | 15 | 13 | SCIE | 7 | 2023 | 2071-1050 |

| S. No. | Name of the Faculty | Type of Publication | Title of the Paper | Journal/Conference/Book Name | Volume | Issue | Indexing | Month | Year | ISSN/ISBN |
|--------|---------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|--------|-------|----------|-------|------|-------------------|
| 27 | | C | Optimizing PV and Battery Energy Storage Systems for Peak Demand Reduction and Cost Savings in Malaysian Commercial Buildings | 2023 IEEE IAS Global Conference on Emerging Technologies (GlobConET) | NA | NA | Scopus | 6 | 2023 | 979-8-3503-3179-0 |
| 28 | | J | Power Loss Minimization in Smart Transformer Enabled Low Voltage Islanded Meshed Hybrid Microgrid | IEEE Access | 10 | NA | SCIE | 11 | 2022 | 2169-3536 |



BVRIT HYDERABAD College of Engineering for Women

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Department of Electrical and Electronics Engineering

2021-22

List of faculty publications

| S. No. | Name of the Faculty | Type of Publication | Title of the Paper | Journal/Conference/Book Name | Volume | Issue | Indexing | Month | Year | ISSN/ISBN |
|--------|-----------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------|-------|----------|-------|------|-------------------|
| 1 | Dr. Chava Sunil Kumar | C | Design of Hybrid Micro-grid under Islanding and Grid Connected Modes | IEEE International Conference on Sustainable Computing and Data Communication Systems (ICSCDS 2022) | NA | NA | Scopus | 4 | 2022 | 978-1-6654-7883-0 |
| 2 | | C | Dynamic and Transient Stability Enhancement of Multi Area Power Systems using Fuzzy Logic Control against Load Disturbances | 2022 3rd International Conference on Electrical and Electronics Engineering (ICEEE 2022) | NA | NA | Scopus | 1 | 2022 | 978-981-19-1742-4 |
| 3 | | C | Wind Energy System using Self Excited Induction Generator with Hybrid FACTS Device for Load Voltage Control | 2022 3rd International Conference on Electrical and Electronics Engineering (ICEEE 2022) | NA | NA | Scopus | 1 | 2022 | 978-981-19-1742-4 |

| S. No. | Name of the Faculty | Type of Publication | Title of the Paper | Journal/Conference/Book Name | Volume | Issue | Indexing | Month | Year | ISSN/ISBN |
|--------|---------------------|---------------------|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------|-------|-------------|-------|------|-------------------|
| 4 | Dr. V. Rajeswari | C | Energy Management in AC/DC Microgrids: A Modular Simulation Testbed | International Conference on Recent Trends in Electrical Electronics Communication and Instrumentation Engineering (ICRTEECI 2021) | NA | NA | Not Indexed | 12 | 2021 | 978-1-6654-2488-2 |
| 5 | | C | Design of Hybrid Micro-grid under Islanding and Grid Connected Modes | IEEE International Conference on Sustainable Computing and Data Communication Systems (ICSCDS 2022) | NA | NA | Scopus | 4 | 2022 | 978-1-6654-7883-0 |
| 6 | | J | Experimental Validation for A Nine-Switched 3-phase Multilevel Inverter (MLI) With a Photovoltaic (PV) Source of Array | Journal of Physics: Conference Series | 2089 | 1 | Scopus | 11 | 2021 | 1742-6596 |

| S. No. | Name of the Faculty | Type of Publication | Title of the Paper | Journal/Conference/Book Name | Volume | Issue | Indexing | Month | Year | ISSN/ISBN |
|--------|---------------------|---------------------|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------|-------|----------|-------|------|-------------------|
| 7 | Mr. R. Guruswamy | C | Exploring the Concept of Computational Thinking in STEM Education | World Engineering Education Forum/Global Engineering Deans Council, WEEF/GEDC 2021 | NA | NA | Scopus | 12 | 2021 | 978-1-6654-2488-2 |
| 8 | Ms. K. Amritha | J | An Optimized Enhanced Phase Locked Loop Controller for a Hybrid System | MDPI Technologies | 10 | 8 | WoS | 3 | 2022 | 2227-7080 |
| 9 | | J | Solar Photovoltaic System-Based Reduced Switch Multilevel Inverter for Improved Power Quality | Clean Technologies | 4 | 1 | WoS | 1 | 2022 | 2571-8797 |
| 10 | | J | Optimized Gains for the Control of Islanded Solar Photovoltaic and Wind System | Advances in Electrical & Electronics Engineering (AEEE) | 19 | 4 | Scopus | 12 | 2021 | 1804-3119 |
| 11 | | J | An ALO Optimized Adaline Based Controller for an Isolated Wind Power Harnessing Unit | MDPI Designs | 5 | 5 | Scopus | 10 | 2021 | 2411-9660 |
| 12 | Ms. B. Sujatha | J | Optimal Energy Management Scheme of Battery Supercapacitor-Based Bidirectional Converter for DC Microgrid Applications | Information | 13 | 7 | WoS | 7 | 2022 | 2078-2489 |

| S. No. | Name of the Faculty | Type of Publication | Title of the Paper | Journal/Conference/Book Name | Volume | Issue | Indexing | Month | Year | ISSN/ISBN |
|--------|---------------------|---------------------|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|--------|-------|----------|-------|------|-------------------|
| 13 | Mr. M.Rupesh | J | Design, analysis and Implementation of Bi Directional DC-DC Converter HESS in Dc Microgrid applications | Smart Cities | 5 | 2 | WoS | 3 | 2022 | 2624-6511 |
| 14 | | J | Intelligent Controller to Extract Maximum Power for 10KW PV System | International Journal of Engineering, Transactions A: Basics | 35 | 4 | WoS | 2 | 2022 | 1735-9244 |
| 15 | | C | Prediction of Solar Power using Machine Learning algorithm | Lecture Notes on Data Engineering and Communications Technologies | 101 | NA | Scopus | 1 | 2022 | 978-981-16-7610-9 |
| 16 | | J | Fuzzy and ANFIS Controllers to Improve the Power Quality of Grid Connected PV System with Cascaded Multilevel Inverter | IJEER (International Journal of Electrical Engineering Research) | 9 | 4 | Scopus | 1 | 2022 | 2347-470X |
| 17 | Dr. P. Srinivas | J | Optimal Energy Management Scheme of Battery Supercapacitor-Based Bidirectional Converter for DC Microgrid Applications | Information | 13 | 7 | WoS | 7 | 2022 | 2078-2489 |

| S. No. | Name of the Faculty | Type of Publication | Title of the Paper | Journal/Conference/Book Name | Volume | Issue | Indexing | Month | Year | ISSN/ISBN |
|--------|---------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------|-------|----------|-------|------|-------------------|
| 18 | | J | Design, analysis and Implementation of Bi Directional DC-DC Converter HESS in Dc Microgrid applications | Smart Cities | 5 | 2 | WoS | 3 | 2022 | 2624-6511 |
| 19 | | C | Single-phase seven-level inverter with multilevel boost converter for solar photovoltaic systems | IEEE Second International Conference on Power, Control and Computing Technologies (ICPC ² T 2022) | NA | NA | Scopus | 2 | 2022 | 978-1-6654-5858-0 |
| 20 | | C | A Comparative Analysis of PI and Predictive Control Strategy for HESS Based Bi-directional DC-DC Converter for DC Microgrid Applications | Lecture Notes in Electrical Engineering | 824 | NA | Scopus | 1 | 2022 | 978-981-16-7794-6 |
| 21 | | J | A Novel Predictive Control Scheme for Interleaved Buck converter in Low Power Applications | Distributed Generation & Alternative Energy Journal | 37 | 3 | Scopus | 1 | 2022 | 2156-6550 |

| S. No. | Name of the Faculty | Type of Publication | Title of the Paper | Journal/Conference/Book Name | Volume | Issue | Indexing | Month | Year | ISSN/ISBN |
|--------|---------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|--------|-------|----------|-------|------|-----------|
| 22 | | J | Minimization of Circulating Currents in Parallel DC-DC Boost Converter Using Non-Linear Droop Control for Battery Energy Storage Systems | Distributed Generation & Alternative Energy Journal | 37 | 3 | Scopus | 1 | 2022 | 2156-6550 |