

# International Journal of Engineering Inventions (IJEI)

## Executive Editorial Board

- ❖ Dr. Sebastian Johnson, Australia
- ❖ Dr. Prof Amelia White, USA
- ❖ Dr. Benjamin Robinson, USA
- ❖ Dr. Zachery Edwards, New Zealand
- ❖ Dr. Alejandra Plamer, Italy
- ❖ Dr. Fletcher Ramero, Nigeria
- ❖ Dr. Barrett Hale, Germany
- ❖ Dr. Webster, South Africa

## Associate Editorial Board

- ❖ Professor Amalendu Chandra ( IIT Kanpur)
- ❖ Professor N. Chandrakumar (IIT Chennai)
- ❖ Professor P. K. Chattaraj (IIT Kharagpur)
- ❖ Professor B. M. Deb (S. N. Bose Institute Kolkatta)
- ❖ Professor M. S. Gopinathan (IISER Trivendrum)
- ❖ Professor S. K. Ghosh (BARC, Mumbai)
- ❖ Professor R. V. Hosur (TIFR, Mumbai)
- ❖ Professor E. D. Jemmis (IISER Trivendrum)
- ❖ Professor D. G. Kanhere (University of Pune)
- ❖ Professor G. Mehata (IISC Bangalore)
- ❖ Professor Manoj K. Mishra (IIT, Bombay)
- ❖ Professor Debashis Mukharjee (IACS Kolkatta)
- ❖ Professor Sourav Pal (NCL, Pune)
- ❖ Professor V. N. R. Pillai (IGNU, New Delhi)
- ❖ Professor T. Ramasami (DST, New Delhi)
- ❖ Professor S. Ramasesha (IISC Bangalore)
- ❖ Professor R. Ramaswami (JNU, New Delhi)
- ❖ Professor K. L. Sebastian (IISC, Bangalore)
- ❖ Professor N. Sathyamurthy (IISER Mohali)
- ❖ Professor K. D. Sen (University of Hydrabad)
- ❖ Professor B. L. Tembe (IIT Bombay)

Address: R12/18, Rajnagar, Ghaziabad,  
U.P., India

Website URL : [www.ijeijournal.com](http://www.ijeijournal.com)

Email : [ijeij@editormails.com](mailto:ijeij@editormails.com)



Peer Reviewed Refereed Journal



The peer-reviewed International Journal

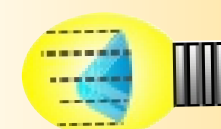
*Research in Science & Technology*

e-ISSN: 2278-7461

Volume : 15 Issue : 5

p-ISSN: 2319-6491

## Contents :



The peer-reviewed International Journal

*Research in Science & Technology*

<b>Research on the influence of heat sink plate structural parameters on the cooling efficiency of electric vehicle battery packs</b>	<b>01-05</b>
<b>Thiophene compounds from Eclipta prostrata (L.) L.</b>	<b>06-09</b>
<b>Adaptive Fuzzy-PI Load Frequency Control for A Single-Area Reheat Thermal Power System</b>	<b>10-17</b>
<b>Implementation and Experimental Validation of a Dual-Loop Digital PID Control System for a Separately Excited DC Motor</b>	<b>18-24</b>
<b>Startup Journalism Platforms and Independent Media: Growth, Challenges, and Future Prospects</b>	<b>25-30</b>
<b>Analysis And Fabrication of Gesture Recognition Speech System</b>	<b>31-38</b>
<b>The Voice of the Displaced: Harun Hashim al-Rashid and the Poetics of Palestinian Resilience</b>	<b>39-42</b>
<b>Methods to Enhance English Pronunciation for Non-English Majored Students in Vietnam: A Conceptual Framework</b>	<b>43-50</b>
<b>State-Space Modeling and Harmonic Analysis of Matrix Converter with RL Load and Passive LC Filter</b>	<b>51-59</b>
<b>Selection of Lean Manufacturing Tools for Shirt Production Lines</b>	<b>60-64</b>
<b>Developing a speech-to-text application on the Android platform</b>	<b>65-73</b>
<b>English Listening Comprehension among Students at TNUT: A Research Synthesis of Published Studies</b>	<b>74-78</b>
<b>The Fourth Industrial Revolution: Opportunities and Challenges for Vietnam's Retail Market</b>	<b>79-84</b>
<b>Study and Design of a Pipe Surface Inspection Robot</b>	<b>85-92</b>
<b>Emission Reduction Potential of Sorghum-Based Bioethanol Blends in Small Engine Applications</b>	<b>93-99</b>