

**VINAYAKA MISSION'S KIRUPANANDA VARIYAR ARTS AND SCIENCE COLLEGE, SALEM****A Constituent College of Vinayaka Mission's Research Foundation****Deemed to be University****List of Publications - 2024**

| <b>S.No.</b> | <b>Department</b> | <b>Author Name<br/>(Faculty Name of<br/>VMRF (DU))</b> | <b>Paper Title</b>                                                                                                                                          | <b>Journal-name</b>                                                                                                                                                               | <b>Month</b> | <b>Year</b> | <b>Indexed in<br/>(Scopus/Web of<br/>science/Pubmed/<br/>UGC care)</b> | <b>ISSN number</b> |
|--------------|-------------------|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------|------------------------------------------------------------------------|--------------------|
| 1            | Chemistry         | V. Anbazhagan                                          | A novel Cadmium metal-organic framework with exceptional nonlinear optical properties: Unveiling anisotropic charge transport and optical limiting behavior | Results in Chemistry                                                                                                                                                              | January      | 2024        | Scopus                                                                 | 2211-7156          |
| 2            | Computer Science  | M. Suguna                                              | Cloud Computing's Effect on Video Games Streaming                                                                                                           | Proceedings of the Second International Conference on Automation, Computing and Renewable Systems (ICACRS-2023)<br>IEEE Xplore Part Number: CFP23CB5-ART; ISBN: 979-8-3503-4023-5 | January      | 2024        | Scopus                                                                 | 2473-2001          |

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| 3 | Chemistry             | Yogapriya Selvaraj                | Influence of ZnO/MWCNTs based hybrid electrodes for boosting the performance of photovoltaic and supercapacitor devices                                         | Materials Chemistry and Physics          | February | 2024 | Scopus         | 0254-0584 |
| 4 | Chemistry             | V. Anbazhagan                     | Leveraging phosphate group in Pd/PdO decorated nickel phosphate microflowers via pulsed laser for robust hydrogen production in hydrazine-assisted electrolyzer | International Journal of Hydrogen Energy | February | 2024 | Scopus         | 3603199   |
| 5 | Computer Science      | Prakash M                         | Advancements in Bone Cancer: Exploring Opportunities, and the Potential impact of Machine Learning in Early Diagnosis                                           | Indian Journal of Natural Sciences       | February | 2024 | Web of science | 0976-0997 |
| 6 | Environmental Science | Suriyanarayanan Sarvajayakesavalu | Earthworm diversity and community assemblage: influencing factors at plot-scale in urban areas                                                                  | Soil & Environmental Health              | February | 2024 | Scopus         | 2949-9194 |

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| 7  | Computer Science | Vaidehi. V         | SVM-based Predictive Modeling of Drowsiness in Hospital Staff for Occupational Safety Solution via IoT Infrastructure                                                        | IEEE Xplore                                                      | April | 2024 | Scopus | 2473-2001 |
| 8  | Chemistry        | Yogapriya Selvaraj | Optimizing photocatalytic and supercapacitive performance by $\beta$ -Bi <sub>2</sub> O <sub>3</sub> @BiFeO <sub>3</sub> modification with PVDF polymer based nanocomposites | Colloids and Surfaces A: Physicochemical and Engineering Aspects | May   | 2024 | Scopus | 1873-4359 |
| 9  | Chemistry        | V. Anbazhagan      | Chemical Resistance, Physical Properties and Biodegradability of palm fiber with cotton fiber in poly styrene matrix biocomposite                                            | Zhuzao/Foundry                                                   | May   | 2024 | Scopus | 1001-4977 |
| 10 | Chemistry        | Ganesamoorthy. R   | Silver Nanoparticles in Various Biomedical and Industrial Applications                                                                                                       | African Journal of Biological Sciences                           | May   | 2024 | Scopus | 2663-2187 |
| 11 | Computer Science | Vaidehi. V         | Cloud-Enabled Isolation Forest for Anomaly Detection in UAV-Based Power Line Inspection                                                                                      | IEEE Xplore                                                      | May   | 2024 | Scopus | 2473-2001 |
| 12 | English          | S Priyadharshini   | Cloud-Powered Patient Interaction: Humanoid Robots in Hospital Reception using NLP                                                                                           | IEEE Xplore                                                      | June  | 2024 | Scopus | 2473-2001 |

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| 13 | Computer Science | Prakash M  | Deep Learning-based Predictive Maintenance for Industrial IoT Applications                          | IEEE Xplore                                  | June | 2024 | Scopus   | 2473-2001          |
| 14 | Computer Science | Prakash M  | The impact of cloud computing on network security and the risk for organization behaviours          | Fuzzy Systems and Soft Computing             | June | 2024 | UGC care | 1819-4362<br>Print |
| 15 | Computer Science | Prakash M  | DEEP LEARNING BASED HANDWRITTEN TO TEXT CONVERSION USING CONVOLUTIONAL AND RECURRENT NEURAL NETWORK | Fuzzy Systems and Soft Computing             | June | 2024 | UGC care | 1819-4362<br>Print |
| 16 | Computer Science | M.Devaraj  | Advance network security policies and vulnerabilities of security threats                           | Humanities and Social Science studies (HSSS) | June | 2024 | UGC care | 2319-829X<br>Print |
| 17 | Computer Science | M. Suguna  | Road Safety by eye detection for drivers' drowsiness                                                | Humanities and Social Science studies (HSSS) | June | 2024 | UGC care | 2319-829X<br>Print |
| 18 | Computer Science | Prakash M  | MACHINE LEARNING BASED INVENTORY MANAGEMENT SYSTEM USING ANN                                        | Indian Literature                            | June | 2024 | UGC care | 0019-5804<br>Print |
| 19 | Computer Science | Vaidehi. V | Blood Donating System web Application project software requirement specification                    | Indian Literature                            | June | 2024 | UGC care | 0019-5804<br>Print |

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| 20 | Chemistry          | V. Anbazhagan                         | Unravelling the optoelectronic and biological properties of phenanthroimidazo [1,2-c] quinazoline-based donor-acceptor materials                     | Asian Journal of Organic Chemistry | July | 2024 | Scopus | 2193-5815                         |
| 21 | Chemistry, Physics | Ramasamy Ganesamoorthy, M Jeyakanthan | Effective removal of Arsenic (V) using the Chromogenic Schiff base ligand.                                                                           | IOP Journal of Physics             | July | 2024 | Scopus | 1742-6588 (print) 1742-6596 (web) |
| 22 | Chemistry, Physics | Ramasamy Ganesamoorthy, M Jeyakanthan | Polymer based Carbon Aerogels for Methylene blue and indigo carmine dyes removal.                                                                    | IOP Journal of Physics             | July | 2024 | Scopus | 1742-6588 (print) 1742-6596 (web) |
| 23 | Chemistry          | Shinyjoy E                            | Gallium and magnesium substituted hydroxyapatite/carbon nanofiber composite: Improved mechanical and bioactivity for biomedical implant applications | IOP Journal of Physics             | July | 2024 | Scopus | 1742-6588 (print) 1742-6596 (web) |

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| 24 | Chemistry        | Shinyjoy E         | Fabrication of europium substituted hydroxyapatite coating on polyindole-5-carboxylic acid coated titanium for bone implant applications                                                     | IOP Journal of Physics | July   | 2024 | Scopus | 1742-6588 (print) 1742-6596 (web) |
| 25 | Chemistry        | N. Vedichi         | Dielectric and Mechanical Studies of Cyclohexylammonium Hydrogen Maleate Hemihydrate Single Crystals                                                                                         | IOP Journal of Physics | July   | 2024 | Scopus | 1742-6588 (print) 1742-6596 (web) |
| 26 | Chemistry        | Yogapriya Selvaraj | Machine Learning-based prediction of Cyclic Voltammetry behavior of substitution of Zinc and Cobalt in BiFeO <sub>3</sub> /Bi <sub>25</sub> FeO <sub>40</sub> for Supercapacitor application | ACS Omega              | July   | 2024 | Scopus | 2470-1343                         |
| 27 | Computer Science | M. Suguna          | Adaptive Silo Networks with Cloud Computing and Reinforcement Learning for Responsive Grain Storage                                                                                          | IEEE Xplore            | August | 2024 | Scopus | ISBN 979-835035929-9              |

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| 28 | Chemistry | Yogapriya Selvaraj     | Optimizing symmetric supercapacitor performance through rational design of Zr/Cu/Fe Oxide-Modified Poly(vinyl alcohol) hybrid nanofibers | Materials Science & Engineering B             | August    | 2024 | Scopus | 0921-5107                          |
| 29 | Chemistry | R. Ganesamoorthy       | Cinnamon-mediated nano emulsion and its cryogenic activity on ROS-affected human sperm—A short study                                     | Toxicology Reports                            | August    | 2024 | Scopus | 2214-7500                          |
| 30 | English   | S Priyadharshini       | IoT - Integrated Valet Parking for Shopping Malls and Retail Centers                                                                     | IEEE Xplore                                   | August    | 2024 | Scopus | 2473-2001                          |
| 31 | English   | S Priyadharshini       | Optimizing Combustion Efficiency in Cloud-Connected Smart Gasoline Engines using Gradient Boosting Machines                              | IEEE Xplore                                   | September | 2024 | Scopus | 2473-2001                          |
| 32 | Chemistry | Vedichi N Anbazhagan V | Host-guest interaction of Nileblue with cyclodextrins: A spectroscopic and computational approach                                        | Research Journal of Chemistry and Environment | December  | 2024 | Scopus | ISSN:0972-0626<br>E-ISSN:2278-4527 |

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| 33 | Commerce | Suresh S                                       | Cloud-Based Predictive Modeling System for Radioactive Waste Behavior Using Bayesian Networks     | IEEE-Xplore                                         | October  | 2024 | Scopus | ISBN:979-8-3315-4066-1 |
| 34 | English  | S. Priyadarshini                               | Decision Trees for Eco-Friendly Green Supply Chains IoT-Enabled Environmental Footprint Reduction | IEEE-Xplore                                         | October  | 2024 | Scopus | ISBN 979-835036310-4   |
| 35 | Physics  | M. Jeyakanthan<br>E. Shinyjoy<br>V. Anbazhagan | Structural, optical and dielectric properties of Cr doped CoWO4 nanomaterial                      | Applied Physics A<br>Materials Science & Processing | December | 2024 | Scopus | 0947-8396              |