

**List of Publication's-2019**

| S.No | Title of the paper | Name of the author | Title of the journal |
|------|--|---|--|
| 1 | Poly(glycerol pimelate) polyester as moderate mild steel protector in 0.5 M H ₂ SO ₄ : justified from electrochemical approach and XPS investigation | Unnisa C.N., Priya V.H., Chitra S. | Journal of Adhesion Science and Technology |
| 2 | Generation of sub-wavelength longitudinal magnetic probe and multiple spots using circularly polarized annular multi-Gaussian beam | Seethalakshmi S., Udhayakumar M., Priyadharsini N., Rajesh K.B., Jaroszewicz Z. | Journal of Optics (India) |
| 3 | Corrosion inhibition behavior of benzothiazine derivative on low carbon steel in acid medium: Adsorption and quantum chemical investigations | Hemapriya V., Chung I.-M., Parameswari K., Chitra S., Kim S.-H., Prabakaran M. | Surface Review and Letters |
| 4 | Costus speciosus leaf extract assisted CS-Pt-TiO ₂ composites: Synthesis, characterization and their bio and photocatalytic applications | Surya C., Arul John N.A., Pandiyan V., Ravikumar S., Amutha P., Sobral A.J.F.N., Krishnakumar B. | Journal of Molecular Structure |
| 5 | Synthesis, characterization, single crystal XRD, in vitro antimicrobial and cytotoxicity study of tris(ethylenediamine)cobalt(III)chloride oxalate trihydrate | Jone Kirubavathy S., Velmurugan R., Parameswari K., Chitra S. | Arabian Journal of Chemistry |
| 6 | Electrochemical and nonelectrochemical analyses of cardo polyesters at the metal/0.5 M H ₂ SO ₄ interface for corrosion protection | Unnisa C.B.N., Chitra S., Nirmala Devi G., Kiruthika A., Roopan S.M., Hemapriya V., Chung I.-M., Kim S.-H., | Research on chemical Intermediates |

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| | | Prabakaran M. | |
| 7 | Controllability of fractional order damped dynamical systems with distributed delays | Arthi G., Park J.H., Suganya K. | Mathematics and Computers in Simulation |
| 8 | Deep learning based prediction of autism spectrum disorder using codon encoding of gene sequences | Pream Sudha V., Vijaya M.S. | International Journal of Engineering and Advanced Technology |
| 9 | Mathematical morphology and optimum principal curvature based segmentation of blood vessels in human retinal fundus images | Geethalakshmi K., Meenakshi V.S. | International Journal of Innovative Technology and Exploring Engineering |
| 10 | Body joints and trajectory guided 3D deep convolutional descriptors for human activity identification | Srilakshmi N., Radha N. | International Journal of Innovative Technology and Exploring Engineering |
| 11 | BiCl ₃ modified perlite as an effective catalyst for selective organic transformations: a green protocol | Brindha K., Amutha P., Krishnakumar B., do Nascimento Sobral A.J.F. | Research on Chemical Intermediates |
| 12 | A study on anticorrosive property of phenolic components from Pachysandra terminalis against low carbon steel corrosion in acidic medium | Chitra S., Chung I.-M., Kim S.-H., Prabakaran M. | Pigment and Resin Technology |
| 13 | Anticorrosive property of Spiraea Cantoniensis extract as an eco-friendly inhibitor on mild steel surface in acid medium | Chung I.-M., Kalaiselvi K., Sasireka A., Kim S.-H., Prabakaran M. | Journal of Dispersion Science and Technology |
| 14 | GH-closed sets in topological spaces | Subbulakshmi D., Sumathi K., Indirani K. | International Journal of Recent Technology and Engineering |
| 15 | Missing value aware optimal feature selection method for efficient big data | Meera S., Rosiline Jeetha B. | International Journal of Recent Technology and |

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| | mining process | | Engineering |
| 16 | Antioxidant (in vitro), Antidiabetic (in vitro) and Photocatalytic Activity of Costus speciosus Leaf Extract Assisted CS-Ag-TiO ₂ Composites | Surya C., Agnel Arul John N., Pandiyan V., Amutha P., Sobral A.J.F.N., Krishnakumar B. | Toxicology and Environmental Health Sciences |
| 17 | Biodegradable Cellulosic Sanitary Napkins from Waste Cotton and Natural Extract Based Anti-bacterial Nanocolorants | Sathishkumar G., Aarthi M., Senthilkumar R., Nithiya P., Selvakumar R., Bhattacharyya A. | Journal of the Indian Institute of Science |
| 18 | Web data classification using support vector machine back propagation neural network | Arunpriya C. | International Journal of Recent Technology and Engineering |
| 19 | UV-vis absorption spectra of Sn(IV)tetrakis(4-pyridyl) porphyrins on the basis of axial ligation and pyridine protonation | Jayachandran P., Angamuthu A., Gopalan P. | Journal of Molecular Modeling |
| 20 | Synthesis and characterization of yttrium doped titania nanoparticles for gas sensing activity | Nithya N., Bhoopathi G., Magesh G., Balasundaram O.N. | Materials Science in Semiconductor Processing |
| 21 | Synthesis of molybdenum disulfide doped zinc oxide nanocomposites by microwave assisted method | Krithika S., Balavijayalakshmi J. | Materials Research Express |
| 22 | Transition metal complexes of substituted nicotinic acid and its nano metal oxides: Synthesis and characterization | Kanchana P., Arunadevi N., Prabha Devi B., Subha Priya P. | Research Journal of Chemistry and Environment |
| 23 | ANFIS for tamil phoneme classification | Laxmi Sree B.R., Vijaya M.S. | International Journal of Engineering and Advanced Technology |
| 24 | Implications of eco-addition inhibitor to mitigate corrosion in reinforced steel | Anitha R., Chitra S., Hemapriya V., Chung I.-M., | Construction and Building Materials |

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| | embedded in concrete | Kim S.-H., Prabakaran M. | |
| 25 | Investigation on structural, spectral and morphological analysis of polymer functionalized graphene oxide-Metal oxide nanocomposites for removal of dyes from aqueous solution | Reeshma P., Balavijayalakshmi J. | Materials Research Express |
| 26 | Investigation on structural and photocatalytic properties of complex perovskites Sr ₄ Sr ₂ B' ₂ O ₁₁ (B' = Ta, Nb) | Kavitha K., Kiruthika P (student)., Vijayaraghavan T., Lakshmi Deepika C., Ashok A.M. | Materials Research Express |
| 27 | Affinity prediction using mutated protein-ligand docking with regression techniques of sca | Asha P.R., Vijaya M.S. | International Journal of Recent Technology and Engineering |
| 28 | Linear kernel with weighted least square regression co-efficient for SVM based tamil writer identification | Tharmalingam T., Vijayakumar V. | International Journal of Recent Technology and Engineering |
| 29 | A deep learning of autism spectrum disorder using Naïve Bayes, IBk and J48 classifiers | Gomathi S. | International Journal of Recent Technology and Engineering |
| 30 | Corrosion resistance of cissus quadrangularis extracts on metal in aggressive medium: Gravimetric and surface examinations | Anitha R., Chitra S. | Rasayan Journal of Chemistry |
| 31 | Synergistic effect of antibiotics on the inhibition property of aminothiazolyl coumarin for corrosion of mild steel in 0.5 M H ₂ SO ₄ | Mahalakshmi D., Hemapriya V., Subramaniam E.P., Chitra S. | Journal of Molecular Liquids |
| 32 | Toxic influence of pristine and surfactant modified halloysite nanotubes on phytopathogenic bacteria | Abhinayaa R., Jeevitha G., Mangalaraj D., Ponpandian N., Meena P. | Applied Clay Science |

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| 33 | Preparation and characterization of quaternary semiconductor Cu ₂ NiSnS ₄ (CNTS) nanoparticles for potential solar absorber materials | Deepika R., Meena P. | Materials Research Express |
| 34 | Affinity prediction of spinocerebellar ataxia using protein-ligand and protein-protein interactions with functional deep learning | Asha P.R., Vijaya M.S. | International Journal of Engineering and Advanced Technology |
| 35 | Design of CuO/SnO ₂ heterojunction photocatalyst with enhanced UV light-driven photocatalytic activity on congo-red and malachite green dyes | Selleswari D., Meena P., Mangalaraj D. | Journal of the Iranian Chemical Society |
| 36 | An efficient new dual fluorescent pyrene based chemosensor for the detection of bismuth (III) and aluminium (III) ions and its applications in bio-imaging | Saravanan A., Shyamsivappan S., Suresh T., Subashini G., Kadirvelu K., Bhuvanesh N., Nandhakumar R., Mohan P.S. | Talanta |
| 37 | Employment of surface modified biomaterial in sequestering divalent metal ion | Anuradha J., Andal N.M. | EnvironmentAsia |
| 38 | Influence of gold nanoparticle concentration on polymer functionalized reduced graphene nanosheets and its electrochemical sensing performance | Ramalakshmi V., Balavijayalakshmi J. | Materials Research Express |
| 39 | Polymer functionalized carbon/metal nanohybrids as a versatile electrochemical sensor for the detection of p-Aminophenol | Yuvashree S., Balavijayalakshmi J. | Materials Research Express |
| 40 | Impact of N-(2-aminoethyl) Glycine Unit on Watson-Crick Base Pairs | Karunakaran I., Angamuthu A., Gopalan P. | Zeitschrift fur Physikalische Chemie |

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| 41 | Security of healthcare monitoring system using EHIP-HOP method | Sindhuja L.S. | Proceedings of the 2018 International Conference On Communication, Computing and Internet of Things, IC3IoT 2018 |
| 42 | Temperature controlled PSO on optimizing the DBN parameters for phoneme classification | Laxmi Sree B.R., Vijaya M.S. | International Journal of Speech Technology |
| 43 | Bioactive Hetero Bimetallic Ni(II)/Zn(II) Complexes with Compartmental Schiff Bases and Triphenylphosphine as Co-Ligand: Synthesis, Characterization and Thermal Decomposition | Suyambulingam J.K., Subramanian C., Velusamy P., Rathinasamy P.R., Gowrishankar P.M., Sakthivelmurugan P. | Inorganic and Nano-Metal Chemistry |
| 44 | Inhibition behavior of <i>Tragia involucrata</i> L. phenolic compounds against acidic medium corrosion in low carbon steel surface | Chung I.-M., Kim S.-H., Hemapriya V., Kalaiselvi K., Prabakaran M. | Chinese Journal of Chemical Engineering |
| 45 | Shape controlled synthesis of dextran sulfate stabilized silver nanoparticles: Biocompatibility and anticancer activity | Sharmila C., Prabhavathi V., Dinesh M., Ranjith Kumar R., Chandar Shekar B. | Materials Research Express |
| 46 | Evaluation of Antioxidant and Anticorrosion Properties of <i>Epipremnum aureum</i> | Prabakaran M., Hemapriya V., Kim S.-H., Chung I.-M. | Arabian Journal for Science and Engineering |
| 47 | Synthesis and Electrochemical Performances of γ -KCoPO ₄ Nanocrystals as Promising Electrode for Aqueous Supercapatteries | Priyadharsini N., Surendran S., Senthilkumar B., Vasylechko L., Selvan R.K. | ChemElectroChem |
| 48 | Electrochemical investigation of nitrogen doped graphene Oxide/Yttrium oxide nanocomposites | Shanmugapriya T., Balavijayalakshmi J. | Journal of Nano- and Electronic Physics |

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| 49 | Liriope platyphylla extract as a green inhibitor for mild steel corrosion in sulfuric acid medium | Chung I.-M., Hemapriya V., Kim S.-H., Ponnusamy K., Arunadevi N., Chitra S., Prabakaran M., Gopiraman M. | Chemical Engineering Communications |
| 50 | A Mn _{3O₄} nanospheres@rGO architecture with capacitive effects on high potassium storage capability | Nithya C., Vishnuprakash P., Gopukumar S. | Nanoscale Advances |
| 51 | An alexandroff topological space on the vertex set of sum cordial graphs | Sasikala D., Divya A. | Journal of Advanced Research in Dynamical and Control Systems |
| 52 | Identification of autism spectrum disorder using a multi-label approach | Sudha V.P., Vijaya M.S. | Journal of Advanced Research in Dynamical and Control Systems |
| 53 | Drug suggestion concerned automated drug knowledge ontology construction framework | Krithika Renuka D., Rosiline Jeetha B. | Journal of International Pharmaceutical Research |
| 54 | Structural, morphological, optical and diode properties of chemical bath deposited nano-structured CdS thin films using EDTA as a complexing agent | Vidhya S.N., Karunakaran R.T. | Materials Science-Poland |
| 55 | ACTIVE-POLYPHENOLIC-COMPOUNDS-RICH GREEN INHIBITOR for the SURFACE PROTECTION of LOW CARBON STEEL in ACIDIC MEDIUM | Chung I.-M., Hemapriya V., Kanchana P., Arunadevi N., Chitra S., Kim S.-H., Prabakaran M. | Surface Review and Letters |
| 56 | Endurance through aspiration: A study of refugee crisis in atka reid and hana schofield's goodbye sarajevo | Preethi R., Jayashree N. | Journal of Advanced Research in Dynamical and Control Systems |
| 57 | Deep neural networks for affinity prediction of spinocerebellar ataxia using protein structures | Asha P.R., Vijaya M.S. | Journal of Advanced Research in Dynamical and Control Systems |

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| 58 | Self-help group participation and empowerment of women | Rajarajeswari M. | Journal of Advanced Research in Dynamical and Control Systems |
| 59 | A study on technical applicability of student and faculty using smart class room - An empirical analysis | Rajarajeswari M. | Journal of Advanced Research in Dynamical and Control Systems |
| 60 | A study on customer preference towards online cab booking facility with special reference to Coimbatore city | Yamuna S.M., Shiji R. | Journal of Advanced Research in Dynamical and Control Systems |
| 61 | Porous reduced graphene oxide (rGO)/WO ₃ nanocomposites for the enhanced detection of NH ₃ at room temperature | Jeevitha G., Abhinayaa R., Mangalaraj D., Ponpandian N., Meena P., Mounasamy V., Madanagurusamy S. | Nanoscale Advances |
| 62 | CCHS: An improved centralized cluster head selection in wireless sensor networks | Kowsalya R., Rosiline Jeetha B. | Journal of Advanced Research in Dynamical and Control Systems |
| 63 | Survey of ethno medicinal plants, Nilgiri Biosphere nature Park at Thuvaipathy, Anaikatti, Coimbatore, Tamilnadu,India | Hemila P., Krishnaveni C. | Plant Archives |
| 64 | Anticorrosive potential of ethanol extract of Delonix elata for mild steel in 0.5 M H ₂ SO ₄ - a green approach | Mahalakshmi D., Unnisa C.B.N., Hemapriya V., Subramaniam E.P., Roopan S.M., Chitra S., Chung I.-M., Kim S.-H., Prabakaran M. | Bulgarian Chemical Communications |
| 65 | Synthesis and X-ray study of dispiro 8-nitroquinolone analogues and their cytotoxic properties against human cervical cancer HeLa cells | Shyamsivappan S., Vivek R., Saravanan A., Arasakumar T., Subashini G., Suresh T., Shankar R., Mohan P.S. | MedChemComm |

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| 66 | A pervasive study on applications and technologies of internet of things (IoT) | Kumar S.M., Mahalakshmi K., Xavier P. | International Journal of Mechanical Engineering and Technology |
| 67 | In silico Approach Towards Antiinflammation and Anticancer Studies on Phytoconstituents Derived from Cissus quadrangularis | Edathil V., Selvi G. | Asian Journal of Chemistry |
| 68 | Sensitivity enhancement of surface plasmon resonance sensor with 2D material covered noble and magnetic material (Ni) | Nisha A., Maheswari P., Anbarasan P.M., Rajesh K.B., Jaroszewicz Z. | Optical and Quantum Electronics |
| 69 | Different coordination geometries of lighter lanthanates driven by the symmetry of guanidines as charge compensators | Packiaraj S., Kanchana P., Pushpaveni A., Puschmann H., Govindarajan S. | New Journal of Chemistry |
| 70 | Support vector regression for predicting binding affinity in spinocerebellar ataxia | Asha P.R., Vijaya M.S. | Studies in Computational Intelligence |
| 71 | Machine learning-based model for identification of syndromic autism spectrum disorder | Pream Sudha V., Vijaya M.S. | Studies in Computational Intelligence |
| 72 | Recurrent neural network based model to predict autism spectrum disorder causative genes | Pream Sudha, V., Vijaya, M.S. | International Journal of Advanced Science and Technology |
| 73 | Contra $g\hat{I}$ -continuity in topological spaces | Subbulakshmi, D., Sumathi, K., Indirani, K. | International Journal of Advanced Science and Technology |
| 74 | Affinity prediction of spinocerebellar ataxia using protein-ligand and protein-protein interactions with functional deep learning | Asha, P.R., Vijaya, M.S. | International Journal of Engineering and Advanced Technology |

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| 75 | Biotechnological application of <i>Talaromyces radicus</i> associated with <i>Cucumis dipsaceus</i> Ehrenb. Ex Spach | Rukshana Begum, S., Tamilselvi, K.S. | Plant Archives |
| 76 | Enhanced corrosion resistance of mild steel in sulphuric acid medium by imidazole derivative: Experimental and computational studies | Ramkumar, S., Nalini, D. | Materials Today: Proceedings |
| 77 | Graphene based nanocomposites for electrochemical detection of H_2O_2 | Yuvashree, S., Balavijayalakshmi, J. | Materials Today: Proceedings |
| 78 | Impact of aluminium on "Structural, optical and morphological properties of copper oxide nanoparticles" | Vidhya Priya, P., Balavijayalakshmi, J. | Materials Today: Proceedings |
| 79 | Decoration and functionalization of graphene oxide nanocomposites for sensing applications | Ramalakshmi, V., Balavijayalakshmi, J. | Materials Today: Proceedings |
| 80 | $G\hat{1}$ -continuous in topological spaces | Subbulakshmi, D., Sumathi, K., Indirani, K. | Advances in Mathematics: Scientific Journal |
| 81 | Facile development and structural investigations of HAp and HAp/Ta nanostructures: Photocatalytic activity against Turq blue GL dye | Manoj, M., Mangalaraj, D., Meena, P., Yuan, A. | Materials Research Express |
| 82 | Effect of ultrasonication during and after preparation of $BiVO_4$ by chemical coprecipitation technique | Deebasree, J.P., Maheskumar, V., Vidhya, B., Balaji, G. | Materials Today: Proceedings |
| 83 | Tight focusing properties of phase modulated azimuthally polarized doughnut Gaussian vortex beam by high NA parabolic mirror | Umamageswari, N., Lavanya, M., Udhayakumar, M., Rajesh, K.B., Zaroszewicz, Z. | Materials Today: Proceedings |