

### List of Publication's – 2019

**1.) Saravanan A., Shyamsivappan S., Suresh T., Subashini G., Kadirvelu K., Bhuvanesh N., Nandhakumar R., Mohan P.S.**

An efficient new dual fluorescent pyrene based chemosensor for the detection of bismuth (III) and aluminium (III) ions and its applications in bio-imaging.

Talanta, 198, 249- 25, 2019.

**2.) Prabakaran M., Hemapriya V., Kim S.-H., Chung I.-M.**

Evaluation of Antioxidant and Anticorrosion Properties of *Epipremnum aureum*

Arabian Journal for Science and Engineering, 44,1, 169- 178, 2019.

**3.) Abhinayaa R., Jeevitha G., Mangalaraj D., Ponpandian N., Meena P.**

Toxic influence of pristine and surfactant modified halloysite nanotubes on phytopathogenic bacteria  
Applied Clay Science, 174,54,68, 2019.

**4.) Chung I.-M., Kim S.-H., Hemapriya V., Kalaiselvi K., Prabakaran M.**

Inhibition behavior of *Tragia involucrata* L. phenolic compounds against acidic medium corrosion in low carbon steel surface

Chinese Journal of Chemical Engineering 27,3,717-725,2019.

**5.) Jeevitha G., Abhinayaa R., Mangalaraj D., Ponpandian N., Meena P., Mounasamy V., Madanagurusamy S.**

Porous reduced graphene oxide (rGO)/WO<sub>3</sub> nanocomposites for the enhanced detection of NH<sub>3</sub> at room temperature

Nanoscale Advances,1,5,1799-1811,2019.

**6.) Jone Kirubavathy S., Velmurugan R., Parameswari K., Chitra S.**

Synthesis, characterization, single crystal XRD, in vitro antimicrobial and cytotoxicity study of tris(ethylenediamine)cobalt(III)chloride oxalate trihydrate

Arabian Journal of Chemistry,12,7,1581-1586,2019.

**7.) Chung I.-M., Kalaiselvi K., Sasireka A., Kim S.-H., Prabakaran M.**

Anticorrosive property of *Spiraea Cantoniensis* extract as an eco-friendly inhibitor on mild steel surface in acid medium

Journal of Dispersion Science and Technology,40,9,1326-1337,2019.

**8.) Anitha R., Chitra S., Hemapriya V., Chung I.-M., Kim S.-H., Prabakaran M.**

Implications of eco-addition inhibitor to mitigate corrosion in reinforced steel embedded in concrete  
Construction and Building Materials,213,246-256,2019.

**9.) Mahalakshmi D., Unnisa C.B.N., Hemapriya V., Subramaniam E.P., Roopan S.M., Chitra S., Chung I.-M., Kim S.-H., Prabakaran M.**

Anticorrosive potential of ethanol extract of *Delonix elata* for mild steel in 0.5 M H<sub>2</sub>SO<sub>4</sub> - a green approach

Bulgarian Chemical Communications,51,1,31-37,2019.

- 10.) **Packiaraj S., Kanchana P., Pushpaveni A., Puschmann H., Govindarajan S.**  
Different coordination geometries of lighter lanthanates driven by the symmetry of guanidines as charge compensators  
New Journal of Chemistry,43,2,979-991,2019.
- 11.) **Hemapriya V., Chung I.-M., Parameswari K., Chitra S., Kim S.-H., Prabakaran M.**  
Corrosion inhibition behavior of benzothiazine derivative on low carbon steel in acid medium: Adsorption and quantum chemical investigations  
Surface Review and Letters,26,10,1950066,2019.
- 12.) **Surya C., Arul John N.A., Pandiyan V., Ravikumar S., Amutha P., Sobral A.J.F.N., Krishnakumar B.**  
Costus speciosus leaf extract assisted CS-Pt-TiO<sub>2</sub> composites: Synthesis, characterization and their bio and photocatalytic applications  
Journal of Molecular Structure,1195,787-795,2019.
- 13.) **Unnisa C.B.N., Chitra S., Nirmala Devi G., Kiruthika A., Roopan S.M., Hemapriya V., Chung I.-M., Kim S.-H., Prabakaran M.**  
Electrochemical and nonelectrochemical analyses of cardo polyesters at the metal/0.5 M H<sub>2</sub>SO<sub>4</sub> interface for corrosion protection  
Research on Chemical Intermediates,456,11,5425-5449,2019.
- 14.) **Chitra S., Chung I.-M., Kim S.-H., Prabakaran M.**  
A study on anticorrosive property of phenolic components from Pachysandra terminalis against low carbon steel corrosion in acidic medium  
Pigment and Resin Technology,48,5,589-396,2019.
- 15.) **Nithya N., Bhoopathi G., Magesh G., Balasundaram O.N.**  
Synthesis and characterization of yttrium doped titania nanoparticles for gas sensing activity  
Materials Science in Semiconductor Processing,99,14-22,2019.
- 16.) **Mahalakshmi D., Hemapriya V., Subramaniam E.P., Chitra S.**  
Synergistic effect of antibiotics on the inhibition property of aminothiazolyl coumarin for corrosion of mild steel in 0.5 M H<sub>2</sub>SO<sub>4</sub>  
Journal of Molecular Liquids,284,316-327,2019.
- 17.) **Selleswari D., Meena P., Mangalaraj D.**  
Design of CuO/SnO<sub>2</sub> heterojunction photocatalyst with enhanced UV light-driven photocatalytic activity on congo-red and malachite green dyes  
Journal of the Iranian Chemical Society,16,6,1291-1300,2019.
- 18.) **Ramalakshmi V., Balavijayalakshmi J.**  
Influence of gold nanoparticle concentration on polymer functionalized reduced graphene nanosheets and its electrochemical sensing performance  
Materials Research Express,6,7,75013,2019.

19.) **Unnisa C.N., Priya V.H., Chitra S.**

Poly(glycerol pimelate) polyester as moderate mild steel protector in 0.5 M H<sub>2</sub>SO<sub>4</sub>: justified from electrochemical approach and XPS investigation

Journal of Adhesion Science and Technology,33,24,2707-2735,2019.

20.) **Seethalakshmi S., Udhayakumar M., Priyadharsini N., Rajesh K.B., Jaroszewicz Z.**

Generation of sub-wavelength longitudinal magnetic probe and multiple spots using circularly polarized annular multi-Gaussian beam

Journal of Optics (India),48,4,586-593,2019.

21.) **Arthi G., Park J.H., Suganya K.**

Controllability of fractional order damped dynamical systems with distributed delays

Mathematics and Computers in Simulation,165,74-91,2019.

22.) **Pream Sudha V., Vijaya M.S.**

Deep learning based prediction of autism spectrum disorder using codon encoding of gene sequences

International Journal of Engineering and Advanced Technology,9,1,6564-6569,2019.

23.) **Geethalakshmi K., Meenakshi V.S.**

Mathematical morphology and optimum principal curvature based segmentation of blood vessels in human retinal fundus images

International Journal of Innovative Technology and Exploring Engineering,8,12,3034-3040,2019.

24.) **Srilakshmi N., Radha N.**

Body joints and trajectory guided 3D deep convolutional descriptors for human activity identification

International Journal of Innovative Technology and Exploring Engineering,8,12,1016-1021,2019.

25.) **Brindha K., Amutha P., Krishnakumar B., do Nascimento Sobral A.J.F.**

BiCl<sub>3</sub>-modified perlite as an effective catalyst for selective organic transformations: a green protocol

Research on Chemical Intermediates,45,9,4367-4381,2019.

26.) **Subbulakshmi D., Sumathi K., Indirani K.**

GH-closed sets in topological spaces

International Journal of Recent Technology and Engineering,8,3,8863-8866,2019.

27.) **Meera S., Rosiline Jeetha B.**

Missing value aware optimal feature selection method for efficient big data mining process

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28.) **Surya C., Agnel Arul John N., Pandiyan V., Amutha P., Sobral A.J.F.N., Krishnakumar B.**

Antioxidant (in vitro), Antidiabetic (in vitro) and Photocatalytic Activity of Costus speciosus Leaf Extract Assisted CS-Ag-TiO<sub>2</sub> Composites

Toxicology and Environmental Health Sciences,11,3,197-209,2019.

29.) **Sathishkumar G., Aarthi M., Senthilkumar R., Nithiya P., Selvakumar R., Bhattacharyya A.**

Biodegradable Cellulosic Sanitary Napkins from Waste Cotton and Natural Extract Based Anti-bacterial Nanocolorants

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30.) **Arunpriya C**

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31.) **Jayachandran P., Angamuthu A., Gopalan P.**

UV-vis absorption spectra of Sn(IV)tetrakis(4-pyridyl) porphyrins on the basis of axial ligation and pyridine protonation

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32.) **Krithika S., Balavijayalakshmi J.**

Synthesis of molybdenum disulfide doped zinc oxide nanocomposites by microwave assisted method

Materials Research Express,6,10,105023,2019.

33.) **Kanchana P., Arunadevi N., Prabha Devi B., Subha Priya P.**

Transition metal complexes of substituted nicotinic acid and its nano metal oxides: Synthesis and characterization

Research Journal of Chemistry and Environment,23,8,43-49,2019.

34.) **Laxmi Sree B.R., Vijaya M.S.**

ANFIS for tamil phoneme classification

International Journal of Engineering and Advanced Technology,8,6,2907-2914,2019.

35.) **Reeshma P., Balavijayalakshmi J.**

Investigation on structural, spectral and morphological analysis of polymer functionalized graphene oxide-Metal oxide nanocomposites for removal of dyes from aqueous solution

Materials Research Express,6,9,95617,2019.

36.) **Kavitha K., Kiruthika P., Vijayaraghavan T., Lakshmi Deepika C., Ashok A.M.**

Investigation on structural and photocatalytic properties of complex perovskites Sr<sub>4</sub>Sr<sub>2</sub>B'<sub>2</sub>O<sub>11</sub> (B' = Ta, Nb)

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37.) **Asha P.R., Vijaya M.S.**

Affinity prediction using mutated protein-ligand docking with regression techniques of sca

International Journal of Recent Technology and Engineering,8,2,3642-3648,2019.

38.) **Tharmalingam T., Vijayakumar V.**

Linear kernel with weighted least square regression co-efficient for SVM based tamil writer identification

International Journal of Recent Technology and Engineering,8,2,586-588,2019.

39.) **Gomathi S.**

A deep learning of autism spectrum disorder using Naïve Bayes, IBk and J48 classifiers  
International Journal of Recent Technology and Engineering,8,2,1428-1432,2019.

40.) **Anitha R., Chitra S.**

Corrosion resistance of cissus quadrangularis extracts on metal in aggressive medium: Gravimetric and surface examinations

Rasayan Journal of Chemistry,12,3,1326-1339,2019.

41.) **Deepika R., Meena P.**

Preparation and characterization of quaternary semiconductor Cu<sub>2</sub>NiSnS<sub>4</sub> (CNTS) nanoparticles for potential solar absorber materials

Materials Research Express,6,8,085087,2019.

42.) **Asha P.R., Vijaya M.S.**

Affinity prediction of spinocerebellar ataxia using protein-ligand and protein-protein interactions with functional deep learning

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43.) **Anuradha J., Andal N.M.**

Employment of surface modified biomaterial in sequestering divalent metal ion

EnvironmentAsia,12,2,9-13,2019.

44.) **Yuvashree S., Balavijayalakshmi J.**

Polymer functionalized carbon/metal nanohybrids as a versatile electrochemical sensor for the detection of p-Aminophenol

Materials Research Express,6,7,75604,2019.

45.) **Karunakaran I., Angamuthu A., Gopalan P.**

Impact of N-(2-aminoethyl) Glycine Unit on Watson-Crick Base Pairs

Zeitschrift fur Physikalische Chemie,233,3,449-469,2019.

46.) **Sindhuja L.S.**

Security of healthcare monitoring system using EHIP-HOP method

Proceedings of the 2018 International Conference On Communication, Computing and Internet of Things, IC3IoT 2018,8668192,199-204,2019.

47.) **Laxmi Sree B.R., Vijaya M.S.**

Temperature controlled PSO on optimizing the DBN parameters for phoneme classification

International Journal of Speech Technology,22,1,143-156,2019.

48.) **Suyambulingam J.K., Subramanian C., Velusamy P., Rathinasamy P.R., Gowrishankar P.M., Sakthivelmurugan P.**

Bioactive Hetero Bimetallic Ni(II)/Zn(II) Complexes with Compartmental Schiff Bases and Triphenylphosphine as Co-Ligand: Synthesis, Characterization and Thermal Decomposition

Inorganic and Nano-Metal Chemistry,49,3,75-83,2019.

- 49.) **Sharmila C., Prabhavathi V., Dinesh M., Ranjith Kumar R., Chandar Shekar B.**  
Shape controlled synthesis of dextran sulfate stabilized silver nanoparticles: Biocompatibility and anticancer activity  
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- 50.) **Priyadharsini N., Surendran S., Senthilkumar B., Vasylechko L., Selvan R.K.**  
Synthesis and Electrochemical Performances of  $\gamma$ -KCoPO<sub>4</sub> Nanocrystals as Promising Electrode for Aqueous Supercapatteries  
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- 51.) **Ramkumar S., Nalini D., Quraishi M.A., Ebenso E.E., Verma C.**  
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Journal of Heterocyclic Chemistry,2019.
- 52.) **Duraisamy P.D., Gopalan P., Angamuthu A.**  
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- 53.) **Shanmugapriya T., Balavijayalakshmi J.**  
Electrochemical investigation of nitrogen doped graphene Oxide/Yttrium oxide nanocomposites  
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- 54.) **Chung I.-M., Hemapriya V., Kim S.-H., Ponnusamy K., Arunadevi N., Chitra S., Prabakaran M., Gopiraman M.**  
Liriope platyphylla extract as a green inhibitor for mild steel corrosion in sulfuric acid medium  
Chemical Engineering Communications,2019.
- 55.) **Nithya C., Vishnuprakash P., Gopukumar S.**  
A Mn<sub>3</sub>O<sub>4</sub> nanospheres@rGO architecture with capacitive effects on high potassium storage capability  
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- 56.) **Sasikala D., Divya A.**  
An alexandroff topological space on the vertex set of sum cordial graphs  
Journal of Advanced Research in Dynamical and Control Systems,11, 2 Special Issue,1551-1555,2019.
- 57.) **Sudha V.P., Vijaya M.S.**  
Identification of autism spectrum disorder using a multi-label approach  
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58.) **Krithika Renuka D., Rosiline Jeetha B.**

Drug suggestion concerned automated drug knowledge ontology construction framework

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46,4,26-34,2019.

59.) **Vidhya S.N., Karunakaran R.T.**

Structural, morphological, optical and diode properties of chemical bath deposited nano-structured CdS thin films using EDTA as a complexing agent

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60.) **Chung I.-M., Hemapriya V., Kanchana P., Arunadevi N., Chitra S., Kim S.-H., Prabakaran M.**

Active-polyphenolic-compounds-rich green inhibitor for the surface protection of low carbon steel in acidic medium

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61.) **Preethi R., Jayashree N.**

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62.) **Asha P.R., Vijaya M.S.**

Deep neural networks for affinity prediction of spinocerebellar ataxia using protein structures

Journal of Advanced Research in Dynamical and Control Systems,11, 4 Special Issue,296-306,2019.

63.) **Rajarajeswari M.**

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64.) **Rajeswari M.R.**

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65.) **Yamuna S.M., Shiji R.**

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66.) **Kowsalya R., Rosiline Jeetha B.**

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67.) **Hemila P., Krishnaveni C.**

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68.) **Shyamsivappan S., Vivek R., Saravanan A., Arasakumar T., Subashini G., Suresh T., Shankar R., Mohan P.S.**

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69.) **Indumathi K., Abiram A., Praveena G.**

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70.) **Kumar S.M., Mahalakshmi K., Xavier P.**

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71.) **Edathil V., Selvi G.**

In silico Approach Towards Antiinflammation and Anticancer Studies on Phytoconstituents Derived from *Cissus quadrangularis*  
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72.) **Nisha A., Maheswari P., Anbarasan P.M., Rajesh K.B., Jaroszewicz Z.**

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73.) **Asha P.R., Vijaya M.S.**

Support vector regression for predicting binding affinity in spinocerebellar ataxia  
Studies in Computational Intelligence, 771, 173-184, 2019.

74.) **Pream Sudha V., Vijaya M.S.**

Machine learning-based model for identification of syndromic autism spectrum disorder  
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