

**List of Publication's -2020**

S.No	Title of the paper	Name of the author	Title of the journal
1	Investigation of magnetocaloric and mechanical properties of Ni _{49-x} Mn ₃₉ Sb ₁₂ Co _x alloys	Kavita S., Ramakrishna V.V., Behara S., Suganthi S., Kar D.N., Thomas T., Ramesh T., Sethupathi K., Gopalan R.	Journal of Alloys and Compounds
2	Utilization of biowaste as an eco-friendly biodegradable corrosion inhibitor for mild steel in 1 mol/L HCl solution	Hemapriya V., Prabakaran M., Chitra S., Swathika M., Kim S.-H., Chung I.-M.	Arabian Journal of Chemistry
3	Inhibition of mild steel corrosion using Magnolia kobus extract in sulphuric acid medium	Chung I.-M., Malathy R., Priyadharshini R., Hemapriya V., Kim S.-H., Prabakaran M.	Materials Today Communications
4	Synthesis, structure, biological/chemosensor evaluation and molecular docking studies of aminobenzothiazole Schiff bases	Suyambulingam J.K., Karvembu R., Bhuvanesh N.S.P., Enoch I.V.M.V., Selvakumar P.M., Premnath D., Subramanian C., Mayakrishnan P., Kim S.-H., Chung I.-M.	Journal of Adhesion Science and Technology
5	Fe ₂ O ₃ /polyaniline supramolecular nanocomposite: A receptor free sensor platform for the quantitative determination of serum	Sriramprabha R., Sekar M., Revathi R., Viswanathan C., Wilson J.	Analytica Chimica Acta

	creatinine		
6	Tribomechanical performance of MgO–ZnO nanoparticles as lubricating additives in the microextrusion process	Srinivasan N., Rajenthirakumar D., Sridhar R., Amutha P.	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science
7	Experimental and computational approaches on the pyran derivatives for acid corrosion	Saranya J., Benhiba F., Anusuya N., Subbiah R., Zarrouk A., Chitra S.	Colloids and Surfaces A: Physicochemical and Engineering Aspects
8	A study on machine learning based conversational agents and designing techniques	Lakshmi S.V.	Proceedings of the 4th International Conference on IoT in Social, Mobile, Analytics and Cloud, ISMAC 2020
9	Intermolecular C-H...H-M dihydrogen bonds in five-membered heterocyclic complexes: a DFT and ab-initio study	Duraisamy P.D., Gopalan P., Angamuthu A.	Monatshefte fur Chemie
10	Synthesis, characterization, and NH ₃ gas sensing application of Zn doped cobalt oxide nanoparticles	Jincy C.S., Meena P.	Inorganic Chemistry Communications
11	BSA adsorption, anthelmintic activity and swelling behavior of poly (N-cyclohexyl acrylamide-co-AMPS IL)hydrogel	Kayalvizhy E., Rajan M.S., Pazhanisamy P.	Journal of Molecular Liquids
12	Hybrid Ensemble Feature Selection (HEFS) model for gene expression microarray data	Kalaimani V., Umagandhi R.	European Journal of Molecular and Clinical Medicine
13	Swelling behavior and antioxidant activity of poly (Ntert-amylacrylamide - co -acrylamide / [3-(Methacryloylamino) propyl] trimethylammonium chloride) gold	Kayalvizhy E., Pazhanisamy P.	Research Journal of Chemistry and Environment

	nanocomposite hydrogels		
14	Towards mimicking the fetal liver niche: The influence of elasticity and oxygen tension on hematopoietic stem/progenitor cells cultured in 3D fibrin hydrogels	Garcia-Abrego C., Zaunz S., Toprakhisar B., Subramani R., Deschaume O., Jookan S., Bajaj M., Ramon H., Verfaillie C., Bartic C., Patterson J.	International Journal of Molecular Sciences
15	Generation of ultra-long multiple optical tubes using annular Walsh function filters	Thiruarul D., Rajesh K.B., Lavanya M., Mahadevan G., Velauthapillai D., Jaroszewicz Z.	Optical and Quantum Electronics
16	Chitosan assisted Fe-Al double layered hydroxide/reduced graphene oxide composites for As(V) removal	Priya V.N., Rajkumar M., Magesh G., Mobika J., Sibi S.P.L.	Materials Chemistry and Physics
17	The Influence of Swelling on Elastic Properties of Polyacrylamide Hydrogels	Subramani R., Izquierdo-Alvarez A., Bhattacharya P., Meerts M., Moldenaers P., Ramon H., Van Oosterwyck H.	Frontiers in Materials
18	Ecofriendly green inhibitor from Hemerocallis fulva against aluminum corrosion in sulphuric acid medium	Chung I.-M., Malathy R., Kim S.-H., Kalaiselvi K., Prabakaran M., Gopiraman M.	Journal of Adhesion Science and Technology
19	Synthesis, characterization, biological and photoluminescence study of co(Ii) complexes of fused heterocyclic ring systems	Kirubavathy S.J., Chitra S.	Indian Journal of Pharmaceutical Education and Research
20	Morphology oriented CuS nanostructures: Superior K-ion storage using surface enhanced pseudocapacitive effects	Nithya C., Thiyagaraj G.	Sustainable Energy and Fuels
21	Tetradentate Schiff Base Complexes of Transition Metals for Antimicrobial Activity	Saranya J., Jone Kirubavathy S., Chitra S., Zarrouk A., Kalpana K., Lavanya K., Ravikiran B.	Arabian Journal for Science and Engineering

22	Floxacin: as Mediators in Enhancing the Corrosion Inhibition Efficiency of Natural Polymer Dextrin	Devi G.N., Unnisa C.B.N., Roopan S.M., Hemapriya V., Chitra S., Chung I.-M., Kim S.-H., Prabakaran M.	Macromolecular Research
23	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
24	Sensitivity enhancement of surface plasmon resonance sensor using hybrid configuration of 2D materials over bimetallic layer of Cu–Ni	AlaguVibisha G., Nayak J.K., Maheswari P., Priyadharsini N., Nisha A., Jaroszewicz Z., Rajesh K.B., Jha R.	Optics Communications
25	Polymer-assisted synthesis and applications of hydroxyapatite (HAp) anchored nitrogen-doped 3D graphene foam-based nanostructured ceramic framework	Manoj M., Song J., Zhu W., Zhang J., Yuan A., Zhou H., Meena P.	RSC Advances
26	Molecular structure, FT-IR and NMR analyses of dihydrogen-bonded $B_3N_3H_6 \cdots HM$ complexes: a DFT and MP2 approach	Duraisamy P.D., Gopalan P., Angamuthu A.	Chemical Papers
27	3D Nanomanipulation: Design and applications of functional nanostructured bio-materials	Lega P.V., Orlov A.P., Frolov A.V., Subramani R., Irzhak A.V., Koledov V.V., Smolovich A.M., Shelyakov A.V.	Journal of Physics: Conference Series
28	Anti-corrosive potential of Cyperus rotundus as a viable corrosion inhibitor for mild steel in sulphuric acid	Anitha R., Nusrath Unnisa C.B., Hemapriya V., Mohana Roopan S., Chitra S., Chung I.-M., Kim S.-H., Mayakrishnan P.	Pigment and Resin Technology
29	Electrochemical studies on crystalline CuS as an electrode material for non-aqueous Na-ion capacitors	Goswami M., Nithya C., Sathish N., Kumar S., Singh N., Srivastava A.K., Kumar S.	New Journal of Chemistry

30	GC-MS analysis of bioactive compounds present in ethanolic stem bark extract of an endemic plant chionanthus mala-elengi (DENNST.) P.S. GREEN (OLEACEAE)	Malathi K., Krishnaveni C., Sahithya S., Akila Shree J.	Plant Archives
31	Enhanced reliable collaborative filtering for book prediction in academic libraries	Santhi L.	International Journal of Scientific and Technology Research
32	Thiazolo thiadiazole derivatives as anti-corrosion additives for acid corrosion	Saranya J., Benhiba F., Anusuya N., Zarrouk A., Chitra S.	Chemical Data Collections
33	Dielectric and conductivity properties of flux grown Ce doped NBT-BT single crystals	Sundari S.S., Kumar B., Dhanasekaran R.	Physica B: Condensed Matter
34	Transition metal complexes of novel binuclear Schiff base derived from 3,3'-diaminobenzidine: synthesis, characterization, thermal behavior, DFT, antimicrobial and molecular docking studies	Radha V.P., Chitra S., Jonekirubavathi S., Chung I.-M., Kim S.-H., Prabakaran M.	Journal of Coordination Chemistry
35	A study on the bioaccumulation and screening of toxic metal ions in effluents, fodder and milk samples collected from Erode, Tirupur, Coimbatore districts	Anuradha J., Gayathri N.S., Muthulakshmi Andal N.	Research Journal of Chemistry and Environment
36	Malware Detection Using Gist Features and Deep Neural Network	Krithika V., Vijaya M.S.	2020 6th International Conference on Advanced Computing and Communication Systems, ICACCS 2020
37	Cu ₂ FeSnS ₄ nanoparticles: Potential photovoltaic absorption materials for solar cell application	Deepika R., Meena P.	Materials Research Express

38	Influence of Ga_2O_3 , $CuGa_2O_4$ and Cu_4O_3 phases on the sodium-ion storage behaviour of CuO and its gallium composites	Pilliadugula R., Nithya C., Gopala Krishnan N.	Nanoscale Advances
39	Node weight swallow swarm optimization convex node segmentation (Nws ² cns) algorithm for distributed 3-d localization in wireless sensor networks (wsns)	Nithya A., Kavitha A.	International Journal of Scientific and Technology Research
40	Association rule mining for clique percolation on community detection	Sathiyakumari K., Vijaya M.S.	International Journal of Advanced Science and Technology
41	Effect of peptidic backbone on the nucleic acid dimeric strands	Indumathi K., Abiram A., Praveena G.	Molecular Physics
42	Minimum hub harary energy of a graph	Sreeja S., Mary U.	Advances in Mathematics: Scientific Journal
43	Malware Family Classification Model Using User Defined Features and Representation Learning	Gayathri T., Vijaya M.S.	IFIP Advances in Information and Communication Technology
44	Binary Metal oxide Adsorbed Graphene Modified Glassy Carbon Electrode for Detection of Riboflavin	Grace A.A., Thillaiarasi S., Dharuman V.	Electroanalysis
45	Role of graphene oxide/yttrium oxide nanocomposites as a cathode material for natural dye-sensitized solar cell applications	Shanmugapriya T., Balavijayalakshmi J.	Asia-Pacific Journal of Chemical Engineering
46	An approach for job shop scheduling using petri nets	Kavitha K., Babitha T.	Advances in Mathematics: Scientific Journal

47	MHD flows due to non-coaxial rotations of porous disk and a viscous fluid at infinity: Graphical solutions using matlab	Lakshmi R., Santhakumari	Advances in Mathematics: Scientific Journal
48	A study on zero-M cordial labeling	Neerajah A., Subramanian P.	Advances in Mathematics: Scientific Journal
49	Supra co bt urysohn space in supra topological spaces	Krishnaveni K.	Advances in Mathematics: Scientific Journal
50	J-g-bicontinuous, j-g-bi-irresolute in complemented ditopological texture spaces	Sasikala D., Divya A.J.	Advances in Mathematics: Scientific Journal
51	Efficiency Studies of Galinsoga Parviflora Pigments as a Sensitizer in Pt Free Graphene Oxide/Nickel Oxide Counter Electrode: Dye Sensitized Solar Cell Applications	Shanmugapriya T., Balavijayalakshmi J.	Journal of Cluster Science
52	Deep neural network for evaluating web content credibility using keras sequential model	Manjula R., Vijaya M.S.	Lecture Notes in Electrical Engineering
53	Deep learning predictive model for detecting human influenza virus through biological sequences	Nandhini M., Vijaya M.S.	Lecture Notes in Electrical Engineering
54	A topological approach in cordial graphs	Divya A., Sasikala D.	Advances in Mathematics: Scientific Journal
55	Bounds on split total domination number of graphs	Brindha T., Subiksha R.	Advances in Mathematics: Scientific Journal
56	Approximation on cordial graphic topological space	Sasikala D., Divya A.	Advances in Mathematics: Scientific Journal

57	Visualization of cordial graph in human excretion track	Aravindan S.J., Sasikala D., Divya A.	Italian Journal of Pure and Applied Mathematics
58	Synthesis, characterization, thermal, theoretical and antimicrobial studies of Schiff base ligand and its Co(II) and Cu(II) complexes	Palaniswamy R.V., Dhandapani M., Suyambulingam J., Subramanian C.	Journal of the Serbian Chemical Society
59	Impact of Business Intelligence Adoption on performance of banks: a conceptual framework	Nithya N., Kiruthika R.	Journal of Ambient Intelligence and Humanized Computing
60	A note on connectedness in topological spaces	Sasikala D., Deepa M.	Advances in Mathematics: Scientific Journal
61	Mhd oscillatory flow of non newtonian fluid through porous medium in the presence of radiation and chemical diffusion with hall effects	Sakthikala R., Lavanya V.	International Journal on Emerging Technologies
62	Root quad mean labeling for some special graphs	Neerajah A., Monica M.	Advances in Mathematics: Scientific Journal
63	Building acoustic model for phoneme recognition using PSO-DBN	Laxmi Sree B.R., Vijaya M.S.	International Journal of Business Intelligence and Data Mining
64	Secure hybrid routing to thwart sequential attacks in mobile AD-HOC networks	Viji Gripsy J., Kanchana K.R.	Journal of Advanced Research in Dynamical and Control Systems
65	Implementation of Statistical Data Analytics in Data Science Life Cycle	Gomathi S., Ragavi R.P., Monika S.	Lecture Notes in Networks and Systems
66	Factors determining the service quality of e-ticketing process in Indian context – An empirical study	Nithya N., Kiruthika R.	International Journal on Emerging Technologies
67	Strong forms of generalised j-closed sets in ditopological texture spaces	Sasikala D., Divya A.J.	Journal of Advanced Research in Dynamical

			and Control Systems
68	A recent work on nano j-closed sets in nano topological spaces	Sasikala D., Radhamani K.C., Shalini R.	Journal of Advanced Research in Dynamical and Control Systems
69	Measuring web content credibility using predictive models	Manjula R., Vijaya M.S.	Lecture Notes in Networks and Systems
70	Influence of transition metal ions on multiferroic properties of lead-free NBT-BT ceramics	Shanmuga Sundari S., Dhanasekaran R.	Journal of Advanced Dielectrics
71	Survey on location aided routing protocols with security features for MASNET	Viji Gripsy J., Kiruthika J.	International Journal of Scientific and Technology Research
72	Stability analysis of single neuron system with levy noise	Arthi G.	International Journal of Scientific and Technology Research
73	Gated recurrent neural network for autism spectrum disorder gene prediction	Pream Sudha V., Vijaya M.S.	International Journal on Emerging Technologies
74	Overlapping community structure detection using twitter data	Sathiyakumari K., Vijaya M.S.	International Journal on Emerging Technologies
75	Dextran sulfate stabilized silver nanoparticle: Next generation efficient therapy for cancer	Chandran S., Ponnusamy T., Bheeman D., Rajamani R.K., Bellan C.S.	International Journal of Applied Pharmaceutics
76	Anti-corrosive property of bioinspired environmental benign imidazole and isoxazoline heterocyclics: A cumulative studies of experimental and DFT methods	Ramkumar S., Nalini D., Quraishi M.A., Ebenso E.E., Verma C.	Journal of Heterocyclic Chemistry