

**List of Publication's-2020**

S.No	Title of the paper	Name of the author	Title of the journal
1	Ecofriendly green inhibitor from <i>Hemerocallis fulva</i> against aluminum corrosion in sulphuric acid medium	Chung, Ill-Min; Malathy, Ramalingam; Kim, Seung-Hyun; Kalaiselvi, Kathirvel; Prabakaran, Mayakrishnan; Gopiraman, Mayakrishnan	JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY
2	Experimental and computational approaches on the pyran derivatives for acid corrosion	Saranya, J.; Benhiba, F.; Anusuya, N.; Subbiah, Ram; Zarrouk, A.; Chitra, S.	COLLOIDS AND SURFACES A-PHYSICO-CHEMICAL AND ENGINEERING ASPECTS
3	Transition metal complexes of novel binuclear Schiff base derived from 3,3'-diaminobenzidine: synthesis, characterization, thermal behavior, DFT, antimicrobial and molecular docking studies	Radha, Venkittapuram Palaniswamy; Chitra, Subramanian; Jonekirubavathi, Suyambulingam; Chung, Ill-Min; Kim, Seung-Hyun; Prabakaran, Mayakrishnan	JOURNAL OF COORDINATION CHEMISTRY
4	Green synthesis of silver nanoparticles (Ag NPs) using <i>Gomphrena globosa</i> (Globe amaranth) leaf extract and their	Tamilarasi, P.; Meena, P.	Materials Today: Proceedings

	characterization		
5	Morphology oriented CuS nanostructures: superior K-ion storage using surface enhanced pseudocapacitive effects	Nithya, Chandrasekaran; Thiyagaraj, Gowtham	Sustainable Energy and Fuels
6	Facile development and structural investigations of HAp and HAp/Ta nanostructures: Photocatalytic activity against Turq blue GL dye	Manoj, Murugesan; Mangalaraj, Devanesan; Meena, Palaniappan; Yuan, Aihua	Sustainable Energy and Fuels
7	Sensitivity enhancement of surface plasmon resonance sensor using hybrid configuration of 2D materials over bimetallic layer of Cu-Ni	AlaguVibisha, G.; Nayak, Jeeban Kumar; Maheswari, P.; Priyadharsini, N.; Nisha, A.; Jaroszewicz, Z.; Rajesh, K. B.; Jha, Rajan	Optics Communications
8	Electrochemical studies on crystalline CuS as an electrode material for non-aqueous Na-ion capacitors	Goswami, Manoj; Nithya, Chandrasekaran; Sathish, N.; Kumar, Satendra; Singh, Netrapal; Srivastava, A. K.; Kumar, Surender	New Jouranl of Chemistry
9	Cu ₂ FeSnS ₄ nanoparticles: potential photovoltaic absorption materials for solar cell application	Deepika, R.; Meena, P.	Materials Research Express
10	Tetradentate Schiff Base Complexes of Transition Metals for Antimicrobial Activity	Saranya, Jagadeesan; Jone Kirubavathy, Suyambulingam; Chitra, Subramanian; Zarrouk, Abdelkader; Kalpana, Kulkarni; Lavanya, Kandikonda; Ravikiran, Bhamidipati	Arbaian Journal for Science and Engineering

11	Synthesis, characterization, thermal, theoretical and antimicrobial studies of Schiff base ligand and its Co(II) and Cu(II) complexes	Palaniswamy, Radha Venkittapuram; Dhandapani, Mahalakshmi; Suyambulingam, Jonekirubavathy; Subramanian, Chitra	Journal of the Serbian Chemical Society
12	Investigation of magnetocaloric and mechanical properties of Ni ₄₉ -xMn ₃₉ Sb ₁₂ Co _x alloys	Kavita, S.; Ramakrishna, V. V.; Behara, Shruthi; Suganthi, S.; Kar, Debendra Nath; Thomas, Tiju; Ramesh, T.; Sethupathi, K.; Gopalan, R.	Journal of Alloys and Compounds
13	Binary Metal oxide Adsorbed Graphene Modified Glassy Carbon Electrode for Detection of Riboflavin	Grace, Arockiajawahar Anancia; Thillaiarasi, Sukumar; Dharuman, Venkataraman	Electroanalysis
14	Fe ₂ O ₃ /polyaniline supramolecular nanocomposite: A receptor free sensor platform for the quantitative determination of serum creatinine	Sriramprabha, R.; Sekar, M.; Revathi, R.; Viswanathan, C.; Wilson, J.	Analtica Chemical Acta
15	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
16	Intermolecular C-H center dot center dot center dot H-M dihydrogen bonds in five-membered heterocyclic complexes: a DFT and ab-initio	Duraisamy, Parimala Devi; Gopalan, Praveena; Angamuthu, Abiram	Monatshefte Fur Chemie

	study		
17	Nano-hydroxyapatite (HAp) and hydroxyapatite/platinum (HAp/Pt) core shell nanorods: Development, structural study, and their catalytic activity	Murugesan, Manoj; Krishnamurthy, Venkatesan; Hebalkar, Neha; Devanesan, Mangalaraj; Nagamony, Ponpandian; Palaniappan, Meena; Krishnaswamy, Swaminathan; Yuan, Aihua	Canadian Journal of Chemical Engineering
18	Synthesis, characterization, and NH ₃ gas sensing application of Zn doped cobalt oxide nanoparticles	Jincy, C. S.; Meena, P.	Inorganic Chemistry Communications
19	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
20	BSA adsorption, anthelmintic activity and swelling behavior of poly (N-cyclohexyl acrylamide-co-AMPS IL)hydrogel	Kayalvizhy, E.; Rajan, Mekha Susan; Pazhanisamy, P.	Journal of Molecular Liquids
21	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, Christian; Zaunz, Samantha; Toprakhisar, Burak; Subramani, Ramesh; Deschaume, Olivier; Jookan, Stijn; Bajaj, Manmohan; Ramon, Herman; Verfaillie, Catherine; Bartic, Carmen; Patterson, Jennifer	International Journal of Molecular Sciences

22	Chitosan assisted Fe-Al double layered hydroxide/reduced graphene oxide composites for As(V) removal	Priya, V. Nithya; Rajkumar, M.; Magesh, G.; Mobika, J.; Sibi, S. P. Linto	Materials Chemistry and Physics
23	Impact of Business Intelligence Adoption on performance of banks: a conceptual framework	Nithya, N.; Kiruthika, R.	Journal of Ambient Intelligence and Humanized Computing
24	Generation of ultra-long multiple optical tubes using annular Walsh function filters	Thiruarul, D.; Rajesh, K. B.; Lavanya, M.; Mahadevan, G.; Velauthapillai, Dhayalan; Jaroszewicz, Z.	Optical and Quantum Electronics
25	The Influence of Swelling on Elastic Properties of Polyacrylamide Hydrogels	Subramani, Ramesh; Izquierdo-Alvarez, Alicia; Bhattacharya, Pinaki; Meerts, Mathieu; Moldenaers, Paula; Ramon, Herman; Van Oosterwyck, Hans	Frontiers in Materials
26	Synthesis, Characterization, Biological and Photoluminescence Study of Co(II) Complexes of Fused Heterocyclic Ring Systems	Kirubavathy, Suyambulingam Jone; Chitra, Subramanian	Indian Journal of Pharmaceutical Education and Research
27	Synthesis, structure, biological/chemosensor evaluation and molecular docking studies of aminobenzothiazole Schiff bases	Suyambulingam, Jone Kirubavathy; Karvembu, Ramasamy; Bhuvanesh, Nattamai S. P.; Enoch, Israel V. Muthu Vijayan; Selvakumar, Paulraj Mosae; Premnath, Dhanaraj; Subramanian, Chitra; Mayakrishnan, Prabakaran; Kim, Seung-Hyun; Chung, Ill-Min	Journal of Adhesion Science and Technology

28	ACTIVE-POLYPHENOLIC-COMPOUNDS-RICH GREEN INHIBITOR FOR THE SURFACE PROTECTION OF LOW CARBON STEEL IN ACIDIC MEDIUM	Chung, Ill-Min; Hemapriya, Venkatesan; Kanchana, Ponnusamy; Arunadevi, Natarajan; Chitra, Subramanian; Kim, Seung-Hyun; Prabakaran, Mayakrishnan	Surface Review and Letters
29	Floxacin: as Mediators in Enhancing the Corrosion Inhibition Efficiency of Natural Polymer Dextrin	Devi, Gowraraju Nirmala; Unnisa, Chan Basha Nusrath; Roopan, Selvaraj Mohana; Hemapriya, Venkatesan; Chitra, Subramanian; Chung, Ill-Min; Kim, Seung-Hyun; Prabakaran, Mayakrishnan	Macromolecular Research
30	Polymer-assisted synthesis and applications of hydroxyapatite (HAp) anchored nitrogen-doped 3D graphene foam-based nanostructured ceramic framework	Manoj, Murugesan; Song, Jinbo; Zhu, Wenjian; Zhou, Hu; Zhang, Junhao; Meene, Palaniappan; Yuan, Aihua	RSC ADVANCES
31	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
32	Anti-corrosive potential of Cyperus rotundus as a viable corrosion inhibitor for mild steel in sulphuric acid	Anitha, Rajan; Unnisa, Chan Basha Nusrath; Hemapriya, Venkatesan; Roopan, Selvaraj Mohana; Chitra, Subramanian; Chung, Ill-Min; Kim, Seung-Hyun; Mayakrishnan, Prabakaran	Pigment & Resin Technology
33	Dielectric and conductivity properties of flux grown Ce doped	Sundari, S. Shanmuga; Kumar, Binay; Dhanasekaran, R.	Physica B-Condensed Matter

	NBT-BT single crystals		
34	Influence of Ga ₂ O ₃ , CuGa ₂ O ₄ and Cu ₄ O ₃ phases on the sodium-ion storage behaviour of CuO and its gallium composites	Pilliadugula, Rekha; Nithya, Chandrasekaran; Krishnan, Gopala N.	Nanoscale Advances
35	Effect of peptidic backbone on the nucleic acid dimeric strands	Indumathi, K.; Abiram, A.; Praveena, G.	Molecular Physics
36	Growth, structural, dielectric and optical characteristics of glycine phosphite single crystals	Sundari, S. Shanmuga; Kanchana, P.; Arunadevi, N.; Shobana, C.	Materials Today: Proceedings
37	Optical and biological characteristics of novel organic single crystal 4-chloro N-methyl 4-stilbazolium tosylate	Arunadevi, N.; Kanchana, P.; Mehala, M.; Sundari, S. Shanmuga	Materials Today: Proceedings
38	A facile approach for the synthesis of carbon dots from Hibiscus sabdariffa & its application as bio-imaging agent and Cr (VI) sensor	Komalavalli, L.; Amutha, P.; Monisha, S.	Materials Today: Proceedings
39	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)
40	3D Nanomanipulation: Design and applications of functional nanostructured bio-	Lega, P. V.; Orlov, A. P.; Frolov, A. V.; Subramani, R.; Irzhak, A. V.; Koledov, V. V.; Smolovich, A. M.; Shelyakov, A. V.	METANANO 2019

	materials		
41	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
42	Anti-corrosive property of bioinspired environmental benign imidazole and isoxazoline heterocyclics: A cumulative studies of experimental and DFT methods	Ramkumar, Sowmya; Nalini, D.; Quraishi, Mumtaz A.; Ebenso, Eno E.; Verma, Chandrabhan	Journal of Heterocyclic Chemistry
43	Molecular structure, FT-IR and NMR analyses of dihydrogen-bonded B3N3H6 center dot center dot center dot HM complexes: a DFT and MP2 approach	Duraisamy, Parimala Devi; Gopalan, Praveena; Angamuthu, Abiram	Chemical Papers