

Publications 2021

S. no	Document Title	Authors	Journal Title
1	Recent development in preparation of food packaging films using biopolymers	Suresh S., Pushparaj C., Subramani R.	Food Research
2	Sensitivity enhancement of SPR sensor using Ni/ZnO nanocomposite assisted with graphene	Maheswari P., Subanya S., Nisha A., Ravi V., Rajesh K.B., Jha R.	Optical and Quantum Electronics
3	Robust control design for delayed periodic piecewise time-varying systems with actuator faults	Thilagamani V., Sakthivel R., Harshavarthini S., Satheesh T., Sasirekha R.	Journal of the Franklin Institute
4	Controllability of higher-order fractional damped stochastic systems with distributed delay	Arthi G., Suganya K., Ma Y.-K.	Advances in Difference Equations
5	An Amalgam of Mg-Doped TiO ₂ Nanoparticles Prepared by Sol-Gel Method for Effective Antimicrobial and Photocatalytic Activity	Nithya N., Gopi S., Bhoopathi G.	Journal of Inorganic and Organometallic Polymers and Materials
6	Energy flux density for higher-order cylindrical vector vortex beam tightly focused through a dielectric interface	Lavanya M., Thiruarul D., Rajesh K.B., Mahadevan G., Velauthapillai D., Jaroszewicz Z.	Journal of Optics (India)
7	Controllability of higher order stochastic fractional control delay systems involving damping behavior	Arthi G., Suganya K.	Applied Mathematics and Computation
8	Finite-time stability of multiterm fractional nonlinear systems with multistate time delay	Arthi G., Brindha N., Ma Y.-K.	Advances in Difference Equations
9	Isolation, Identification and Molecular Characterization of Endophytic Fungi from the leaves of Coelogyne species, and their role as an Antimicrobial agent	Akila Shree J., Krishnaveni C.	Research Journal of Pharmacy and Technology
10	Studies on Syntheses, Spectral, Thermal and Hydrophobic Behavior of Cardanol Based Tetra Functional Benzoxazines	Tj M., Hariharan A., Balaji K., Alagar M.	Polymer Science - Series A
11	Cobalt tetrphosphate as an efficient bifunctional electrocatalyst for hybrid sodium-air batteries	Murugesan C., Panjalingam S.P., Lochab S., Rai R.K., Zhao X., Singh D., Ahuja R., Barpanda P.	Nano Energy
12	Stock market volatility transmission	Qamruzzaman M., Kler R.,	Universal Journal of

	and interlinkage: Evidence from bricks	Theivanayaki M., Karim S.	Accounting and Finance
13	Ag-Ni bimetallic film on CaF ₂ prism for high sensitive surface plasmon resonance sensor	Nisha A., Maheswari P., Subanya S., Anbarasan P.M., Rajesh K.B., Jaroszewicz Z.	Photonics Letters of Poland
14	Perlite impregnated with HPA/ α -Fe ₂ O ₃ : Magnetically separable catalyst for the synthesis of 3,3,6,6-tetramethyl-9-substituted-3,4,6,7-tetrahydro-2H-xanthene-1,8-(5H,9H)-diones	Lakshminarayanan K., Parasuraman A., Alam M., Ahmad N., Krishnakumar B., Raja A., Kang M.	Journal of Physics and Chemistry of Solids
15	Molecular Insights on the Dihydrogen Bond Properties of Metal Borohydride Complexes upon Ammoniation	Arumugam S., Angamuthu A., Gopalan P.	ECS Journal of Solid State Science and Technology
16	Controllability of non-linear fractional-order systems with damping behaviour and multiple delays	Arthi G., Suganya K.	IMA Journal of Mathematical Control and Information
17	Aminothiazolyl coumarin derivatives as effectual inhibitors to alleviate corrosion on mild steel in 0.5 M H ₂ SO ₄	Mahalakshmi D., Saranya J., Benhiba F., Warad I., Zarrouk A., Chitra S.	Journal of Applied Electrochemistry
18	Complexes of criegee intermediate CH ₂ OO with CO, CO ₂ , H ₂ O, SO ₂ , NO ₂ , CH ₃ OH, HCOOH and CH ₃ CH ₃ CO molecules – A DFT study on bonding, energetics and spectra	Shyama M., Cheviri M., Mano Priya A., Lakshmi pathi S.	Computational and Theoretical Chemistry
19	Evaluation of structural, surface morphological and thermal properties of Ag-doped ZnO nanoparticles for antimicrobial activities	Ranjithkumar B., Ranjith Kumar E., Srinivas M., Ramalingam H.B., Srinivas C., Magesh G., Balamurugan A., Rahale C.S., ChandarShekar B.	Physica E: Low-Dimensional Systems and Nanostructures
20	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
21	Natural citric acid (lemon juice) assisted synthesis of ZnO nanostructures: Evaluation of phase composition, morphology, optical and thermal properties	Vandamar Poonguzhali R., Ranjith Kumar E., Sumithra M.G., Arunadevi N., Rahale C.S., Munshi A.M., Mersal G.A.M., El-Metwaly N.M.	Ceramics International
22	Maximum Independent Seidel Energy of a Graph	Mary U., Sreeja S.	Journal of Physics: Conference Series
23	Preparation and evaluation of N, N1-methylenebisacrylamide crosslinked polymer for the controlled release of	Dhanapal V., Subhapriya P., Arunadevi N., Radjarejesri S.	AIP Conference Proceedings

	water and fertilizer in agriculture sector		
24	Theoretical investigation of intermolecular dihydrogen bonds in $c2h2$ hm and $c2h4$ hm (m = li, na and k) complexes: A dft and ab initio study	PARIMALA DEVI D., GIJU T., PRAVEENA G., ABIRAM A.	Asian Journal of Chemistry
25	Study of Some Physicochemical Properties of Microwave-Sintered Al ³⁺ -Doped Ni-Zn Ferrites for Gas Sensor Applications	Sekhar E.C., Sreenivasulu M., Purushotham Y., Magesh G.	Journal of Superconductivity and Novel Magnetism
26	Structural, conductivity and DFT studies of L-Histidinium phosphite – Ferroelectric phosphite single crystal	Shanmuga Sundari S., Mano Priya A., Durairajan A., Valente M.A.	Journal of Solid State Chemistry
27	Standardization of a protocol for micropropagation of Eupatorium glandulosum L. an important medicinal plant	Nithya V., Kamalam M.	Plant Cell, Tissue and Organ Culture
28	Microwave assisted synthesis of MoS ₂ /PANI/ZnO nanocomposites as a working electrode for energy storage applications	Balavijayalakshmi J., Krithika S.	Asian Journal of Chemistry
29	Dye sensitized solar cell action of Sn(IV)tetrakis(4-pyridyl) porphyrins as a function of axial ligation and pyridine protonation	Jayachandran P., Angamuthu A., Gopalan P.	Journal of the Iranian Chemical Society
30	Secure and Efficient Fire-fly Data Routing Algorithm for Wireless Sensor Networks in IoT Monitoring Systems	Kowsalya R., Rosiline Jeetha B.	Journal of Physics: Conference Series
31	Structural, optical, thermal, biological and molecular docking studies of guanidine based naphthoate metal complexes	Arunadevi N., Swathika M., Devi B.P., Kanchana P., Sundari S.S., Kirubavathy S.J., Subhapriya P., Kumar E.R.	Surfaces and Interfaces
32	Inhibitory effect of biowaste on copper corrosion in 1 M HCl solution	Hemapriya V., Chung I.-M., Kim S.-H., Prabakaran M.	Materials Today Communications
33	Natural fuels (Honey and Cow urine) assisted combustion synthesis of zinc oxide nanoparticles for antimicrobial activities	Ranjithkumar B., Ramalingam H.B., Kumar E.R., Srinivas C., Magesh G., Rahale C.S., El-Metwaly N.M., Shekar B.C.	Ceramics International
34	Characterization of potential plant growth promoting rhizobacteria isolated from rhizospheric soil of Banana (Musa paradisiaca L.)	Gajalakshmi K., Dhivya K.	Research Journal of Biotechnology
35	Volume minimization of a closed coil helical spring using alo, GWO, DA, FA, FPA, WOA, CSO. BA, PSO and GSA	Rejula M.J., Stephen S.E.A.	Mathematics and Statistics

36	On finite-time stability of nonlinear fractional-order systems with impulses and multi-state time delays	Arthi G., Brindha N.	Results in Control and Optimization
37	Quinoxaline derivatives as anticorrosion additives for metals	Saranya J., Lavanya K., Haritha Kiranmai M., Subbiah R., Zarrouk A., Chitra S.	Corrosion Reviews
38	Effects of Nd doping on structural, optical, morphological and surface-chemical state analysis of ZnO nanoparticles for antimicrobial and anticancer activities	Indumathi T., Theivarasu C., Pradeep I., Rani M.T., Magesh G., Rahale C.S., Kumar E.R.	Surfaces and Interfaces
39	Binary Metal Oxide Adsorbed Graphene Modified Glassy Carbon Electrode for Detection of Riboflavin	Grace A.A., Thillaiarasi S., Dharuman V.	Electroanalysis
40	Predictive Models for River Water Quality using Machine Learning and Big Data Techniques-A Survey	Nair J.P., Vijaya M.S.	Proceedings - International Conference on Artificial Intelligence and Smart Systems, ICAIS 2021
41	Erratum: Electrochemical studies on crystalline CuS as an electrode material for non-aqueous Na-ion capacitors(New J. Chem. (2020) 44 (5278-5284) DOI: 10.1039/C9NJ06465F)	Goswami M., Nithya C., Sathish N., Kumar S., Singh N., Srivastava A.K., Kumar S.	New Journal of Chemistry
42	Synthesis, characterization of gelatin assisted ZnO and its effective utilization of toxic azo dye degradation under direct sunlight	Krishnakumar B., Alsalme A., Alharthi F.A., Mani D., Anandan K., Amutha P., Sobral A.J.F.N.	Optical Materials
43	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
44	Creation of one dimensional array of magnetic field by tightly focused phase modulated azimuthal and radial variant vector beam	Udhayakumar M., Lavanya M., Thiruarul D., Rajesh K.B., Jaroszewicz Z.	Optics Communications
45	Lemon juice (natural fuel) assisted synthesis of MgO nanorods for LPG gas sensor applications	Poonguzhali R.V., Ranjith Kumar E., Pushpagiri T., Steephen A., Arunadevi N., Baskoutas S.	Solid State Communications
46	Impact of Business Intelligence Adoption on performance of banks: a conceptual framework	Nithya N., Kiruthika R.	Journal of Ambient Intelligence and Humanized Computing
47	Deep positional attention-based bidirectional RNN with 3D convolutional video descriptors for human action recognition	Srilakshmi N., Radha N.	IOP Conference Series: Materials Science and Engineering
48	A survey on network intrusion system attacks classification using machine	Deepa V., Radha N.	IOP Conference Series: Materials Science and

	learning techniques		Engineering
49	Multi-layer patch with aligned poly (acrylonitrile-co-acrylic acid) nanofibers for lactate detection in human sweat	Sathish Kumar G., Soorya V., Senthil Kumar R., Sivasubramanian R., Bhattacharyya A.	Materials Letters
50	[Inhibition of corrosion of mild steel by an alcoholic extract of a seaweed Sargassum muticum, Inhibicija korozije mekog čelika alkoholnim ekstraktom algi sargassum muticum]	Jeslina V.D.A.M., Kirubavathy S.J., Al-Hashem A., Rajendran S.S., Joany R.M., Lacnjevac C.	Materials Protection
51	Dopant-Free Main Group Elements Supported Covalent Organic-Inorganic Hybrid Conducting Polymer for Sodium-Ion Battery Application	Vedachalam S., Sekar P., Nithya C., Muruges N., Karvembu R.	ACS Applied Energy Materials
52	Inhibitive effect of an alcoholic extract of a seaweed sargassum muticum in controlling corrosion of mild steel in 0.5 n hcl	Jeslina V., Kirubavathy S.J., Al-Hashem A., Rajendran S., Lacnjevac C., Joany R.M.	International Journal of Corrosion and Scale Inhibition
53	A scientific pharmacognosy on Gaucher's disease: an in silico analysis	Sasikumar A.P., Ramaswamy S.K., Sudhir S.	Environmental Science and Pollution Research
54	Targeting the ENV spike protein of HIV with naturally occurring compounds: an in-silico study for drug designing	Sreeram S., Sathishkumar R., Amritha P.S.	Advances in Traditional Medicine
55	Screening, detection and antimicrobial susceptibility of multi-drug resistant pathogens from the clinical specimens	Kabeerdass N., Krishnamoorthy S., Anbazhagan M., Srinivasan R., Nachimuthu S., Rajendran M., Mathanmohun M.	Materials Today: Proceedings
56	2-Methylimidazolium pyridine-2,5-dicarboxylato zinc(II) dihydrate: Synthesis, characterization, DNA interaction, anti-microbial, anti-oxidant and anti-breast cancer studies	Sudha D., Vairam S., Sarathbabu S., Senthil Kumar N., Sivasamy R., Jone Kirubavathy S.	Journal of Coordination Chemistry
57	Recurrent Neural Network Based Model for Autism Spectrum Disorder Prediction using Codon Encoding	Sudha V.P., Vijaya M.S.	Journal of The Institution of Engineers (India): Series B
58	A Review on Classification and Retrieval of Biomedical Images Using Artificial Intelligence	Greeshma K.V., Viji Gripsy J.	Internet of Things
59	Platinum Layers Sandwiched Between Black Phosphorous and Graphene for Enhanced SPR Sensor Performance	Pandaram M., Santhanakumar S., Veeran R., Balasundaram R.K., Jha R., Jaroszewicz Z.	Plasmonics
60	Pharmacological effect of androgrophis paniculata in ammonium acetate induced hyperammonemia: A dose-dependent	Chandran H., Anandhan D.K., Gunasekaran P., Babu V., Natesan V., Thilagar G., Arumugam R.	Toxicology International

	study		
61	Examining Volatility Spillover Between Foreign Exchange Markets and Stock Markets of Countries such as BRICS Countries	Singh D., Theivanayaki M., Ganeshwari M.	Global Business Review
62	Predictable Mobility-Based Routing Protocol in Wireless Sensor Network	Sophia Reena G., Punithavalli M.	Lecture Notes in Networks and Systems
63	Evaluation of gas sensor behaviour of Sm ³⁺ doped TiO ₂ nanoparticles	Nithya N., Kumar E.R., Magesh G., Arun A.P., Abou-Melha K.S., Badr G., El-Metwaly N.M., Mersal G.A.M., Rahale C.S.	Journal of Materials Science: Materials in Electronics
64	Synthesis and crystal growth of cadmium naphthoate crystal for second order non-linear optics and cytotoxic activity	Arunadevi N., Kanchana P., Hemapriya V., Sankaran S.S., Mayilsamy M., Balakrishnan P.D., Chung I.-M., Mayakrishnan P.	Journal of Dispersion Science and Technology
65	Potential Utilization of a Weed Prosopis Juliflora Leaf Extract Nanoparticle for Dye Degradation and Antibacterial Activity	Sahithya S., Krishnaveni C.	Environmental Science and Engineering
66	Microbiome Analysis of Pesticide Contaminated Soils Its Impact on the Microbial Isolates	Sowmiya Sri S., Suji V., Sophia Reena G.	Environmental Science and Engineering
67	Impact of Water Quality on the Anatomical and Histochemical Characteristics of Eichhornia Crassipes	MadhuBala D., Narmathasri J., Priyadarshini V., Saranya S., Sneka S., TamilSelvi K.S.	Environmental Science and Engineering
68	Novel QR Code Tagging System for Campus Vegetation to Promote Ecorestoration	Chahana V.E., Abirami S., Karpagavalli S., Arunpriya C.	Environmental Science and Engineering
69	Analysis of Microbial Isolate from Contaminated Street Food with a Potential to Degrade Food Waste	Swathi Priya S., Shanmuga Priya C., Maria Shyla J.	Environmental Science and Engineering
70	Evaluation of the Synthesized Novel Iridium (III) Complexes Against HeLa Cell Lines Through In-Silico, In-Vitro and DNA Nicking	Priyadarshini G.S., Muthusankar A., Subramani R., Gopal S.	Asian Pacific Journal of Cancer Prevention
71	Nano-hydroxyapatite (HAp) and hydroxyapatite/platinum (HAp/Pt) core shell nanorods: Development, structural study, and their catalytic activity	Murugesan M., Krishnamurthy V., Hebalkar N., Devanesan M., Nagamony P., Palaniappan M., Krishnaswamy S., Yuan A.	Canadian Journal of Chemical Engineering