



**Sri Ramakrishna Mission Vidyalaya College of Arts and Science  
Coimbatore - 641 020**

**(An Autonomous Institution affiliated to Bharathiar University and Re-accredited by NAAC with 'A' grade)**

**Internal Quality Assurance Cell**

**3.4. Research Publications and Awards**

**3.4.3. Research Paper Publications**

## List of Research papers published in the year 2020

**Research Papers published in the year 2020**

<b>Title of paper</b>	<b>Name of the author/s</b>	<b>Department of the teacher</b>	<b>Name of journal</b>
Thanthirika Uzhaviyalakkathil Veriyattu	Dr. R. Moorthy	Tamil	Shanlax International Journals
Pathupattil Vilangiyal Pathivugal	Dr.D.Rajakumar	Tamil	Journal of Modern Tamil Research
Sanga Ilakiyathil Thani Manitha Aram	Dr.D.Rajakumar	Tamil	Classical Tamizh
Sanga Tamilarin Kalvi Chelumai	Dr.D.Rajakumar	Tamil	Journal of Modern Tamil Research
Sanga Ilakiyathil Pen Paar Pulavrkal	Dr.D.Rajakumar	Tamil	Shanlax International Journals
Porul Purathathu Iraichi	Dr.D.Rajakumar	Tamil	IOR Press
A Study on Members' Participation and Satisfaction Level of Chithode Primary Agricultural Cooprative Credit Society Limited	Dr. C.Vellaichamy and D.Maharani	Cooperation	International Journal of Multidisciplinary Science and Advance Technology
An Economic Analysis of Joint Liability Lending - with Special reference to Thoppampalayam Primary Agricultural Cooperative Credit Society Ltd., Erode District	Dr. C.Vellaichamy and S.Tamilvani	Cooperation	INFOKARA RESEARCH
Sugarcane Growers Attitude towards Sugarcane Production and Marketing , Dharmapuri District, Tamilnadu'	Dr.G.Thanikacchal am and . K.Sakunthala	Cooperation	International Journal of Psychosocial Rehabilitation
Comparative Analysis of Socio economic and cultivation variables and attitudes of Sugarcane Growers about sugarcane production and marketing in Dharmapuri District, Tamilnadu	Dr.G.Thanikacchal am and . K.Sakunthala	Cooperation	International Journal of Psychosocial Rehabilitation
“The Pertinent Analysis of Area Production and Productivity of Groundnut, Cotton and Maize in India”	P. Lakshmanan, B. Muniyandi, P. Shanmugam Dr. S. Kalaiselvan,	Social Work	Solid State Technology, Volume: 63, Issue:6, 2020.
“A Distinctive Symmetric Analyzation of Improving Air Quality Using Multi-Criteria Decision Making Method under Uncertainty Conditions”	Samayam Narayanamoorthy, Arumugam Anuja, Daekook Kang, Joseph Varhese Kureethara, Dr. S Kalaiselvan, Thangaraj Manirathinam	Social Work	Symmetry
Hybrid Hesitant Fuzzy Multi-criteria Decision Making Method: A Symmetric Analyzation of Best Water Distribution System Selection”	Samayam Narayanamoorthy, Veerappan Annapoorani, Dr. S	Social Work	Symmetry

	Kalaiselvan, Daekook Kang,		
“Use of DEMATEL and COPRAS method to select best alternative fuel for control of impact of greenhouse gas emissions”	Samayam Narayanamoorthy, L. Ramya, Dr. S Kalaiselvan, Joshep Varghese Kureethara, Daekook Kang,	Social Work	Socio-Economic Planning Sciences, Volume 76, 2020
A study on the Effectiveness of Human Resource Management among the Employees with Special Reference to Sakthi Sugars Limited, Coimbatore	Dr. K. Thirumalaisamy, Dr. I.Mariya Yesuraja, A. Bellaro John Regan	Social Work	International Journal of Advanced and Innovative Research
Three Dimensional Non-linear Radiative Nanofluid Flow over a Riga Plate	1.A.K. Abdul Hakeem 2. P. Ragupathi 3. S. Saranya 4. B. Ganga	Dr. A.K. Abdul Hakeem Mathematic s	Journal of Applied and Computational Mechanics
Entropy optimized MHD 3D nanomaterial of non-Newtonian fluid: A combined approach to good absorber of solar energy and intensification of heat transport	1. M. K.Nayak 2. A.K. Abdul Hakeem 3. B. Ganga 4.M. Ijaz Khan 5. M. Waqas 6. O. D. Makinde	Dr. A.K. Abdul Hakeem Mathematic s	Computer Methods and Programs in Biomedicine
Qualitative Analysis of a Modified Leslie-Gower Model with Addictive Allee Effect and Gestation Delay	1. S. Vinoth 2. R. Sivasamy 3. K. Sathiyathan	Dr. K. Sathiyathan an Mathematic s	Journal of Discontinuity, Nonlinearity and Complexity
Controllability of nonlinear higher order neutral fractional delay integrodifferential systems with prescribed controls	1. M. Sivabalan 2. K. Sathiyathan	Dr. K. Sathiyathan an Mathematic s	Nonlinear Studies
Existence results for hybrid differential equation with generalized fractional derivative	1. S.Harikrishnan 2. E.M. Elsayed 3.. K.Kanagarajan	Dr. K. Kanagaraja n Mathematic s	Maltepe Journal of Mathematics
Solutions to $\psi$ -type complex order delay differential equations with nonlocal initial conditions	1.D. Vivek 2. E.M. Elsayed 3.K. Kanagarajan 4.J. Prasanth	Dr. K. Kanagaraja n Mathematic s	Asia Pacific Journal of Mathematics
Existence results for hybrid fractional differential equations with Hilfer fractional derivative	1. D. Vivek 2. O. Baghani 3.. K.Kanagarajan	Dr. K. Kanagaraja n	Caspian Journal of Mathematical Sciences

		Mathematics	
Analysis of boundary value problems for pantograph equations with $\psi$ -type fractional derivative and nonlocal conditions	1.D. Vivek 2. E.M. Elsayed 3.K. Kanagarajan 4.J. Prasanth	Dr. K. Kanagarajan Mathematics	Numerical and Computational Methods in Sciences and Engineering
Some existence and stability results for integro-differential equation by hilfer-katugampola fractional derivative	1. S.Harikrishnan 2. K. Kanagarajan 3.. D. Vivek	Dr. K. Kanagarajan Mathematics	Palestine Journal of Mathematics
Existence and uniqueness results for $\psi$ -fractional integro-differential equations with boundary conditions	1. Devaraj Vivek 2. E.M. Elsayed 3. Kuppusamy Kanagarajan	Dr. K. Kanagarajan Mathematics	PUBLICATIONS DE L'INSTITUT MATHÉMATIQUE
Existence and Ulam stability results for a class of boundary value problem of neutral pantograph equations with complex order	1. D. Vivek 2. E.M. Elsayed 3. K. Kanagarajan	Dr. K. Kanagarajan Mathematics	Acta Mathematica Vietnamica
Analytic Study on Boundary Value Problem of Implicit Differential Equations via Composite Fractional Derivative	1. D. Vivek 2. E.M. Elsayed 3. K. Kanagarajan	Dr. K. Kanagarajan Mathematics	Acta Mathematica Vietnamica
Analysis of implicit differential equations via $\Psi$ fractional derivative	1. S.Harikrishnan 2. E.M. Elsayed 3.. K.Kanagarajan	Dr. K. Kanagarajan Mathematics	Journal of Interdisciplinary Mathematics
Fractional Differential Equations Involving Hadamard Fractional Derivatives with Nonlocal Multi-point Boundary Conditions	1. Muthaiah Subramanian 2. Murugesan Manikandan 3.. Thangaraj Nandha Gopal	Dr. T. Nandha Gopal Mathematics	Discontinuity, Nonlinearity, and Complexity
On generalized Caputo fractional differential equations and inclusions with non-local generalized fractional integral boundary conditions	1.Muthaiah Subramanian 2. Sargunam Muthu 3.Murugesan Manikandan 4.Thangaraj Nandha Gopal	Dr. T. Nandha Gopal Mathematics	Malaya Journal of Matematik
Analysis of generalized fractional differential equations and inclusions with non-local generalized fractional integral boundary conditions	1.Muthaiah Subramanian 2. Thangaraj Nandha Gopal	Dr. T. Nandha Gopal	Mathematics in Engineering, Science and Aerospace

	3. Shanmugam Muthukumar 4. Palanisamy Duraisamy	Mathematics	
Analysis of fractional integro-differential equations with nonlocal Erdelyi-Kober type integral boundary conditions	1. Palanisamy Duraisamy 2. Thangaraj Nandha Gopal 3. Muthaiah Subramanian	Dr. T. Nandha Gopal Mathematics	Fractional Calculus and Applied analysis
Analysis of boundary value problem with multi-point conditions involving Caputo-Hadamard fractional derivative	1. Muthaiah Subramanian 2. Thangaraj Nandha Gopal	Dr. T. Nandha Gopal Mathematics	Proyecciones Journal of Mathematics
Existence and Hyers-Ulam type stability results for nonlinear coupled system of Caputo Hadamard type fractional differential equations	1. Subramanian Muthaiah 2. Dumitru Baleanu 3. Nandha Gopal Thangaraj	Dr. T. Nandha Gopal Mathematics	AIMS Bioengineering
On stiff, fuzzy IRD-14 day average transmission model of COVID-19 pandemic disease	1. Prasantha Bharathi Dhandapani 2. Dumitru Baleanu 3. Jayakumar Thippa 4. Vinoth Sivakumar	T. Jayakumar Mathematics	AIMS Bioengineering
Numerical Solution of Fuzzy Delay Differential Equations by Runge-Kutta Fehlberg Method	1. T. Muthukumar 2. T. Jayakumar 3. D. Prasantha Bharathi	T. Jayakumar Mathematics	GIS SCIENCE JOURNAL
Radiative unsteady rarefied gaseous flow over a stretching sheet with velocity slip and temperature jump effects	1. Ram Prakash Sharma 2. N. Indumathi 3. S. Saranya 4. B. Ganga 5. A.K. Abdul Hakeem	Dr. A.K. Abdul Hakeem Mathematics	THE JOURNAL OF THE INDIAN MATHEMATICAL SOCIETY
Entropy optimized MHD 3D nanomaterial of non-Newtonian fluid: A combined approach to good absorber of solar energy and intensification of heat transport	1. M. K. Nayak 2. A.K. Abdul Hakeem 3. B. Ganga 4. M. Ijaz Khan 5. M. Waqas 6. O. D. Makinde	Dr. A.K. Abdul Hakeem Mathematics	Computer Methods and Programs in Biomedicine
Comparison of disparate solid volume fraction ratio of hybrid nanofluids flow over a permeable flat surface with	1. A. K. Abdul Hakeem 2. N. Indumathi	Dr. A.K. Abdul Hakeem	Scientia Iranica

aligned magnetic field and Marangoni convection	3. B. Ganga 4. M. K. Nayak	Mathematics	
Effect of Inclined Magnetic Field and Heat Transfer in a Walter's B Fluid over a Stretching Sheet with Elastic Deformation	1. C. Ragavan 2. Muniradnam 3. A.K. Abdul Hakeem 4.M.K. Nayak 5. O. D. Makinde	Dr. A.K. Abdul Hakeem Mathematics	International Journal of Engineering Research in Africa
Contemporary issues in teaching and learning techniques of differential equations: a review among engineering students	1.P. Revathy 2.R. Prabakaran 3. S. Muthukumar	Dr. S. Muthukumar Mathematics	International Journal of Advanced Science and Technology
Performance Analysis of Various Edge Detection techniques in X-ray Imaging	1.R. Sathish Kumar 2.R. Karthikamani	R. Sathish Kumar Mathematics	Materials science and Engineering
A Study on Some Properties of Q-Fuzzy Normal Subgroups	1.S. Santhosh Kumar 2. G. Mohanapriya 3.M.M. Shanmugapriya	Dr. S. Santhosh Kumar Mathematics	Journal of Critical Reviews
Non-Uniform Heat Sink/Source and Heat Flux Effects on Casson-Fluid with an Inclined Magnetic Field	1. S. Santhosh Kumar 2. S. Nadeem 3. B. Ganga 4. A. K. Abdul Hakeem	Dr. S. Santhosh Kumar Mathematics	International Journal of Control, Automation and systems
Intuitionistic Fuzzy Ideals of M groups in Near Rings as Maximal Product of Graphs	1. S.K. Mala 2.M.M. Shanmugapriya 3. S. Santhosh Kumar	Dr. S. Santhosh Kumar Mathematics	Turkish Journal of Computer and Mathematics Education
Zirconia modified nanostructured MoO <sub>3</sub> thin films deposited by spray pyrolysis technique for Cu/MoO <sub>3</sub> -ZrO <sub>2</sub> /p-Si structured Schottky barrier diode application	P. Vivek, J. Chandrasekaran, R. Marnadu, S. Maruthamuthu, V. Balasubramani and P. Balraju,	Physics	Optik
Influence of high dielectric HfO <sub>2</sub> thin films on the electrical properties of Al/HfO <sub>2</sub> /n-Si (MIS) structured Schottky barrier diodes	P.Harishsenthil, J.Chandrasekaran, R.Marnadu, P.Balraju, C.Mahendran	Physics	Physica B: Condensed Matter
Colossal photosensitive boost in Schottky diode behaviour with Ce-V <sub>2</sub> O <sub>5</sub> interfaced layer of MIS structure	V.Balasubramani, J.Chandrasekaran, Tien DaiNguyen, S.Maruthamuthu, R.Marnadu, P.Vivek, S.Sugarthi	Physics	Sensors and Actuators A: Physical

Fabrication of Illumination-Dependent Cu/p-Si Schottky Barrier Diodes by Sandwiching MoO <sub>3</sub> Nanoplates as an Interfacial Layer via JNSP Technique	P.Vivek, J.Chandrasekaran, R.Marnadu, S.Maruthamuthu	Physics	Journal of Electronic Materials
Influence of metal (M=Cd, In and Sn) dopants on the properties of spin-coated WO <sub>3</sub> thin films and fabrication of temperature-dependent heterojunction diodes,	M. Raja, J. Chandrasekaran, M. Balaji, P Kathirvel, R. Marnadu,	Physics	Journal of Sol-Gel Science and Technology
High Photoresponsive p-Si/n-In <sub>2</sub> O <sub>3</sub> Junction Diodes with Low Ideality Factor Prepared Using Closely Packed Octahedral Structured In <sub>2</sub> O <sub>3</sub> Thin Films	S.Bhuvaneshwari, M.Seetha, J.Chandrasekaran, R.Marnadu	Physics	Journal of Inorganic and Organometallic Polymers and Materials
Effect of Vd-doping on dielectric, magnetic and gas sensing properties of nickel ferrite nanoparticles	V.Manikandan, Iulian Petrila, S.Kavita, R.S.Mane, Juliano C.Denardin, Stefan Lundgaard, Saulius Juodkazis, S.Vigneselvan, J.Chandrasekaran	Physics	Journal of Materials Science: Materials in Electronics
Impact of Substrate Temperature on the Properties of Rare-Earth Cerium Oxide Thin Films and Electrical Performance of p-Si/n-CeO <sub>2</sub> Junction Diode	R.Siva Prakash, C.Mahendran, J.Chandrasekaran, R.Marnadu, S.Maruthamuthu	Physics	Journal of Inorganic and Organometallic Polymers and Materials
Impedance analysis of zirconium-doped lithium manganese oxide	Sam Manova Vedhanayagam, Sharmila Saminathan, B.Janarthanan, J.Chandrasekaran	Physics	Bulletin of Materials Science
Enhanced humidity sensing properties of Fe-doped CeO <sub>2</sub> nanoparticles	V.Manikandan, Iulian Petrila, S.Vigneselvan, Ali Mirzaei, R.S.Mane, Sang Sub Kim, J.Chandrasekaran	Physics	Journal of Materials Science: Materials in Electronics
Influence of rare earth doping concentrations on the properties of spin coated V <sub>2</sub> O <sub>5</sub> thin films and Cu/Nd-V <sub>2</sub> O <sub>5</sub> /n-Si Schottky barrier diodes	V.Balasubramani, J.Chandrasekaran, V.Manikandan, R.Marnadu, P.Vivek, P.Balraju	Physics	Journal Inorganic Chemistry Communications
The rapid response and high sensitivity of a ruthenium-doped copper ferrite thin film (Ru-CuFe <sub>2</sub> O <sub>4</sub> ) sensor	V. Manikandan, Ali Mirzaei. S. Sikarwar, B. C. Yadav S. Vigneselvan, A.	Physics	RSC Advances

	Vanitha J. Chandrasekaran		
Influence of annealing temperature and electrical conductivity of $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> nanoparticles for Schottky barrier diode	P.Sangaiya, R.Jayaprakash	Physics	Journal of Materials Science: Materials in Electronics
A facile sol–gel spin-coating fabrication of Ni@WO <sub>3</sub> thin films and highly rectifying p-Si/n-Ni@WO <sub>3</sub> heterojunction for optoelectronic applications	R. Marnadu, Mohd. Shkir, S. Karthik Kannan, M. Balaji and R. Ganesh	Physics	Journal of Materials Science: Materials in Electronics
Growth, spectral, optical, dielectric and third order nonlinear studies on 2-amino 4-methylpyridinium salicylate single crystals	K. Sathishkumar, J. Chandrasekaran, B Babu,	Physics	Materials Science-Poland
Jet nebuliser spray pyrolysed indium oxide and nickel doped indium oxide thin films for photodiode application	A. Narmada, P. Kathirvel, Lakshmi Mohan, S. Saravanakumar, R. Marnadu, J. Chandrasekaran	Physics	Optik
A reliable chemiresistive sensor of nickel-doped tin oxide (Ni-SnO <sub>2</sub> ) for sensing carbon dioxide gas and humidity	V. Manikandan, Iulian Petril, S. Vigneselvan, R. S. Mane, Bogdan Vasile, Raghu Dharmavarapu, Stefan Lundgaard, Saulius Juodkazis and J. Chandrasekaran	Physics	RSC Advances
Growth, spectroscopic, electrical and mechanical studies on hexamethylenetetramine succinate crystal-A new third harmonic generation material	, S. Balaprabakaran. J. Chandrasekaran, B. Babu, R. Thirumurugan and K. Anitha	Physics	Materials Science-Poland,
Jet Nebulizer Sprayed WO <sub>3</sub> -Nanoplate Arrays for High-Photoresponsivity Based Metal–Insulator–Semiconductor Structured Schottky Barrier Diodes,	R. Marnadu, J. Chandrasekaran, S. Maruthamuthu, P. Vivek, V. Balasubramani and P. Balraju,	Physics	Journal of Inorganic and Organometallic Polymers and Materials
Effect of Organic Additives on the Characteristics of Al/Organic Additive:ZrO <sub>2</sub> /p-Si Metal–Insulator–Semiconductor (MIS) Type Schottky Barrier Diodes	Sasikumar K., Bharathikannan R., Chandrasekaran J., Raja M.	Physics	Journal of Inorganic and Organometallic Polymers and Materials
Experimental and quantum chemical studies on SHG, Z-scan and optical	M. Saravanakumar, J. Chandrasekaran,	Physics	Journal of Physics and Chemistry of Solids,



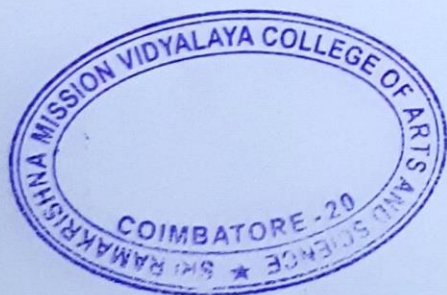
limiting investigation of 2-amino-5-bromopyridinium trifluoroacetate single crystal for optoelectronic applications	M. Krishnakumar, B. Babu, G. Vinitha, Mohd Anis		
Effect of neodymium stimulation on the dielectric, magnetic and humidity sensing properties of iron oxide nanoparticles.	V. Manikandan, Ali Mirzaei, Iulian Petrila, S. Kavita, R.S. Mane, Juliano C Denardin, Stefan Lundgaard, Saulius Juodkazis, J. Chandrasekaran, S. Vigneselvan	Physics	Materials Chemistry and Physics.
Fabrication of high-performance SiO <sub>2</sub> @p-CuO/n-Si core-shell structure based photosensitive diode for photo detection application	S. Gunasekaran, D. Thangaraju, R. Marnadu, J. Chandrasekaran, T. Alshahrani, Mohd Shkir, A. Durairajan, M.P.F. Graça, M. Elango	Physics	Surfaces and Interfaces
Hydrothermally Synthesized Zinc Vanadate Rods for Electrochemical Supercapacitance Analysis in Various Aqueous Electrolytes.	B. Suganya, J. Chandrasekaran, S. Maruthamuthu, B. Saravanakumar, E. Vijayakumar.	Physics	Journal of Inorganic and Organometallic Polymers and Materials
Solvent influenced synthesis of single-phase SnS <sub>2</sub> nanosheets for solution-processed photodiode fabrication	Thangaraju D., Marnadu R., Santhana V., Durairajan A., Kathirvel P., Chandrasekaran J., Jayakumar S., Valente M.A., Greenidge D.C.	Physics	CrystEngComm
The magnetic property alterations due to transition from barium ferrite (BaFe <sub>2</sub> O <sub>4</sub> ) nano rods to barium carbonate (BaCO <sub>3</sub> ) quantum dots	Dilip Ravikumar, Jayaprakash Rajan, Gopi Somasundaram Sangaiya Ponnaiah	Physics	Results in Materials
Fabrication and characterization of rare earth (Ce, Gd, and Y) doped ZrO <sub>2</sub> based metal-insulator-semiconductor (MIS) type Schottky barrier diodes	Sasikumar K, Bharathikannan R, Raja M, Mohanbabu B.	Physics	Superlattices and Microstructures
Physical Investigations on Various Weight Percentage of Acetic Acid Doped Polypyrrole by Chemical Oxidative Polymerization	Gowtham B., Ponnuswamy V., Pradeesh G., Suresh R., Ramanathan S., Ashokan S.	Physics	Journal of Inorganic and Organometallic Polymers and Materials

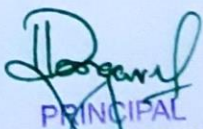
Requisite of Surfactant (CTAB, n-Heptane, and Tri-sodium Citrate) Levels on Enhancement of Magnetic Property and Morphology Changes of Barium Ferrite (BaFe <sub>2</sub> O <sub>4</sub> ) Nanoparticles	R.Dilip, R.Jayaprakash	Physics	Journal of Superconductivity and Novel Magnetism
Chlorine directed C–Cl... π and C–H... Cl interactions in acridinium 3, 5-dichlorosalicylate: Synthesis, X-ray diffraction and theoretical analysis	C.Amsaraj, R.Bharathikannan, P.Muthuraja, M.Rajkumar	Physics	Journal of Molecular Structure
One-pot synthesis of tungsten oxide nanostructured for enhanced photocatalytic organic dye degradation	T.Govindaraj, C.Mahendran, V.S.Manikandan, R.Suresh	Physics	Journal of Materials Science: Materials in Electronics
Superior photoresponse MIS Schottky barrier diodes with nanoporous:Sn-WO <sub>3</sub> films for ultraviolet photodetector application	R. Marnadu, J. Chandrasekaran, P. Vivek, V. Balasubramani and S. Maruthamuthu	Physics	New Journal of Chemistry - The Royal Society of Chemistry,
A study on the Fabrication and Characterization of Dye-sensitized Solar cells with Amaranthus red and Lawsonia inermis as sensitizers with maximum absorption of visible light	S. Sowmya, Pooja Prakash, N. Ruba, B. Janarthanan, A. Nagamani Prabu, J. Chandrasekaran	Physics	Journal of Materials Science: Materials in Electronics
Fabrication of ON/OFF switching response based n-Ni-doped MoO <sub>3</sub> /p-Si junction diodes using Ni-MoO <sub>3</sub> thin films as n-type layer prepared by JNS pyrolysis technique	M. Balaji, J. Chandrasekaran, M. Raja, R. Marnadu, M. Ramamurthy, Mohd. Shkir	Physics	Applied Physics A
Impact of Phase Transformation in WO <sub>3</sub> Thin Films at Higher Temperature and its Compelling Interfacial Role in Cu/WO <sub>3</sub> /p-Si Structured Schottky Barrier Diodes	R. Marnadu, J. Chandrasekaran, P. Vivek, V. Balasubramani and S. Maruthamuthu	Physics	Zeitschrift für Physikalische Chemie
Benzimidazolium picrate single crystal: Synthesis, growth, characterization and their biological activity	G. Vadivelan G. Gohulavani V. Murugesan M. Saravanabhavan, M. Sekar	Chemistry	Indian Journal of Chemistry-Section A (IJCA)
Synthesis, structural, thermal, mechanical, laser damage threshold and DFT investigations on bis (2-methylimidazolium-4-aminobenzoate) single crystal	T. DaisyRani M. Rajkumar G. Vinitha J. Mobika A. Chandramohan	Chemistry	Journal of Molecular Structure
Synthesis, crystal structure, photoluminescence, thermal, laser damage threshold and DFT calculations	T. DaisyRani M. Rajkumar A. Chandramohan	Chemistry	Optical Materials

of 1, 10-phenanthroline-2-carboxy-6-nitrobenzoate			
Structural characterization, quantum chemical calculations and Hirshfeld surface analysis of a new third order harmonic organic crystal: 2-Amino-4-methylpyridinium benzilate	S. Madhankumar P. Muthuraja M. Dhandapani	Chemistry	Journal of Molecular Structure
Physico-chemical characterization and computational studies of a new organic adduct 3-amino-2-chloropyridine: Benzilic acid, crystal for third order harmonic generation	S. Madhankumar P. Muthuraja M. Dhandapani	Chemistry	Journal of Molecular Structure
Hydrogen bond analysis of a third order nonlinear optical crystal, 2-amino-5-bromopyridinium benzilate, using structural and computational characterizations	S. Madhankumar P. Muthuraja M. Dhandapani	Chemistry	Journal of Molecular Structure
Synthesis, crystal structure, spectroscopic investigations, physicochemical properties of third-order NLO single crystal for optical applications	A. Anandhan C. Sivasankari M. Saravanabhavan V. Siva K. Senthil	Chemistry	Journal of Molecular Structure
Synthesis, crystal structure, optical, thermal, mechanical, dielectric and DFT studies of 3, 5-dimethylprazole: 1, 3, 5-benzene tricarboxylic acid molecular adduct crystal	M. Rajkumar P. Muthuraja M. Dhandapani A. Chandramohan	Chemistry	Optics & Laser Technology
Synthesis and Characterization of Liquid Crystalline Polyesters Containing $\alpha,\beta$ -unsaturated Ketone Moiety in the Main Chain Derived from 2,6-bis(4-hydroxybenzylidene)cyclohexanone	A. Muthusamy K. Balaji S.C. Murugavel C. Yuan L. Dai	Chemistry	Polymer Science, Series B
Recognition of Fe <sup>3+</sup> by a new azine-based fluorescent “turn-off” chemosensor and its binding mode analysis using DFT	S. Manigandana A. Muthusamy R. Nandhakumar C.I. David	Chemistry	Journal of Molecular Structure
Synthesis and Structural Characterization of Zinc(II) Thiourea Complex	G. Ayyannan N. Selvakumaran	Chemistry	Applied Research Frontiers
Synthesis, Characterization, Thermal, NLO and Quantum-Chemical Studies on N-Acetyl-2, 6-bis (4-methoxyphenyl)-3-ethylpiperidin-4-one	V. Mohanraj M. Dhandapani S. Ponnuswamy P. Muthuraja	Chemistry	Asian Journal of Chemistry
Bidentate schiff base ligands appended metal (II) complexes as probes of DNA and plasma protein: in silico molecular modelling studies	C. Vidya Rani, M.P. Kesavan, S. Haseena, R. Varatharaj, J. Rajesh G. Rajagopal	Chemistry	Applied biochemistry and biotechnology

Adsorption and Inhibitive Action of Mitracarpus Hirtus Extract Towards the Corrosion of Mild Steel in H <sub>2</sub> SO <sub>4</sub> Medium	R. Ragul A Muruges J. Ravichandran	Chemistry	Journal of Bio-and Tribo-Corrosion
New Palladium (II) complexes with ONO chelated hydrazone ligand: Synthesis, characterization, DNA/BSA interaction, antioxidant and cytotoxicity	G. Ayyannana M. Mohanraj M. Gopiraman R. Uthayamalar G. Raja N. Bhuvanesh R. Nandhakuma C. Jayabalakrishnan	Chemistry	Inorganica Chimica Acta
An eco-friendly leucas aspera leaves extract inhibitor for copper corrosion in hydrochloric acid medium	N. Kavitha A Muruges J. Ravichandran	Chemistry	Journal of Bio-and Tribo-Corrosion
Magnetic, electrical and gas sensing properties of poly (o-phenylenediamine)/MnCoFe <sub>2</sub> O <sub>4</sub> nanocomposites	N. kannapiran A. Muthusamy B. Renganathan A.R. Ganesan S.S. Meena	Chemistry	Applied Physics A
Supramolecular assemblies through hydrogen bonding and Br... Onitro interactions in 4-bromoanilinium 2, 4-dinitrobenzoate crystals	V.S. Aparna P. Muthuraja T. Shanmugavadivu M. Sethuram M. Dhandapani	Chemistry	Journal of Molecular Structure
Combined DFT and MD simulation studies of protein stability on imidazolium–water (ImH <sup>+</sup> W <sub>n</sub> ) clusters with aromatic amino acids	K. Palanisamy M. Prakash V. Rajapandian	Chemistry	New Journal of Chemistry
Evaluation of curcumin assistance in the antimicrobial and photocatalytic activity of a carbon based TiO <sub>2</sub> nanocomposite	V. Suba M. Saravanabhavan L.S. Krishna S. Kaleemulla E, Ranjith Kumar G. Rathika	Chemistry	New Journal of Chemistry
Soil degradaion sustainability of Fuzzy Inference System	R.Beulah, M.Ravichandran	Computer Science	Zeichen Journal
Predicting Human Health Impacts of Pesticide use in Agriculture using Choquistic and Quasi Poisson Regression	R.Beulah M.Ravichandran	Computer Science	Zeichen Journal
Prediction of Pesticides used for Crop production on the environment using Fuzzy random forest	R.Beulah M.Ravichandran	Computer Science	International Journal of Engineering Research and Applications(IJERA)
Analysing k nearest technique for classification of agricultural land soil	R.Beulah M.Ravichandran	Computer Science	Fuzzy Systems
"A Study on the Impact of Social Media Marketing on Consumer Behavior"	S. GANESAN, M.SURESH	B.Com	International Journal of Trend in Scientific

			Research and Development
Impact of Innovation and Cltural Influence on the Performance of SMES in Coimbatore District	K.Ratheesh Kumar & Dr.P.Pavithra	B.Com	Dogo RangSang Research journal
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