



Department of Chemistry Research Activities

1. Details of Publications

S.No	Year	Faculty Name(s)	Title of the Paper published in peer reviewed journals	Name of the Journal	Publisher	Is Scopus indexed	Is WoS indexed
1	2024-25	K.Laxmi	Characterization of non steroidal anti inflammatory drug Ibuprofen by applying Argus Lab 4.0.1 software tool http://doi.org/10.1729/Journal.40400	International Journal of Research and Analytical Reviews	(IJRAR)	No	No
2	2024-25	K.Laxmi	A Hypothetical Study on Structural aspects of Purine Alkaloid Caffeine a central nervous system stimulant by MolView web applications, DOI: https://doi.org/10.56025/IJARES.2025.120724812	International Journal of All Research Education and Scientific Methods	IJARES Publication	No	No
3	2024-25	Dr.D. Saritha	Mode-I and mode-II fracture toughness investigation on FDM-printed PLA/CF-PLA laminate composite. J Mech Sci Technol 39, 129–136 (2025). https://doi.org/10.1007/s12206-024-1212-8	Journal of Mechanical Science and Technology,	Springer	Yes	Yes
4	2024-25	Dr.D. Saritha	. Current Developments In 4D Printing Technology. Journal of Polymer and Composites. 2025; 13(03):108-120. https://journals.stmjournals.com/jopc/article=2025/view=209626	Journal of Polymer and Composites.		No	Yes
5	2024-25	Gubbala V. Ramesh	Advancements in the Synthesis of MFe ₂ O ₄ Nanoparticles for Antibacterial Applications https://doi.org/10.1007/978-3-031-73816-6_27	Advances in Science, Technology & Innovation	Springer,	Yes	-

6	2024-25	Gubbala V. Ramesh	A Brief Overview of Biowaste-Derived Porous Carbon for Superior ORR Activity in Fuel Cells https://doi.org/10.1007/978-3-031-73816-6_24	Advances in Science, Technology & Innovation	Springer,	Yes	-
7	2024-25	Gubbala V. Ramesh	A Concise Tutorial Review on Emerging Cathode Materials for Sodium-Ion Batteries: A Focus on Na ₃ V ₂ (PO ₄) https://doi.org/10.1007/978-3-031-73816-6_18	Advances in Science, Technology & Innovation	Springer,	Yes	-
8	2024-25	Gubbala V. Ramesh	Structural, Magnetic and Antimicrobial Performance of Hydrothermally Synthesized Mg-Zn Ferrite Nanoparticles https://doi.org/10.14233/ajchem.2025.33257	Asian Journal of Chemistry		Yes	
9	2024-25	Dr.S.Shylaja	N-doped carbon dots/MnO ₂ composite for the efficient catalytic reduction of malachite green and methyl violet https://doi.org/10.1007/s1144-024-02767-y	Reaction Kinetics, Mechanisms and Catalysis & Vol.:(0123456789)	Springer	Yes	Yes
10	2024-25	Dr.K.Ramesh	Battini Geetha Rani, Sreedhar Gundekari, Kola Ramesh, Chandra Sekhar Vasam, Narasimha Swamy Thirukovela “ZnBr ₂ catalyzed sequential A ₃ -coupling and intramolecular cyclization: One-pot synthesis of 3-aminofurans.” https://doi.org/10.1016/j.tetlet.2025.155718	Tetrahedron Letters	Elsevier	Scopusindexed	WoS indexed
11	2024-25	Dr.K.Ramesh	Isolation of an Anthocyanin from Flowers of PterocarpussantalinusL.f.” High Energy Chemistry, https://doi.org/10.1134/S0018143925700146	HighEnergy Chemistry Nature.	Springer	Scopusindexed	WoS indexed
12	2024-25	Dr.K.Ramesh	Cu-Ag/SBA-15 nano catalysts for the control of microorganisms in water” Discover Nano” https://doi.org/10.1186/s11671-024-04176-5 .	Discover Nano Springer Nature		Scopusindexed	WoS indexed

13	2024-25	Dr.K.Ram esh	CH Keerthi, Ramesh Kola, Divya Pingili, Archana Awasthi, DSNBK Prasanth, Chamakuri Kantlam “Synthesis and biological assessment of triazolo- quinazoline carbothioamide derivatives for p38 MAP kinase inhibition: in-silico and in-vitro approaches” https://doi.org/10.1007/s00044-024-03348-3	Medicinal Chemistry	Springer	Scopusindex ed	WoS indexed
14	2024-25	Dr.K.Ram esh	An Efficient and Green Strategy for the Synthesis of Graphene with Aqueous Polyphenol Extracts of Orchid Flower (Dendrobium Anosmum) for Charge Storage” https://doi.org/10.1016/j.matlet.2024.137131	Materials Letters	Elsevier	Scopusindex ed	WoS indexed
15	2024-25	Dr.K.Ram esh	One-pot multicomponent approach towards the synthesis of 5-substituted 1H-tetrazoles using lanthanum (III) nitrate hexahydrate as a catalyst” Research on Chemical Intermediates” https://doi.org/10.1007/s11164-024-05365-8	Chemical Intermediates Nature	Springer	Scopusindex ed	WoS indexed
16	2024-25	Dr M.Mamat ha	“Analysis of abrasive wear characteristics in glass fiberreinforced epoxy composites: Optimization and mechanicalproperty investigation”. https://doi.org/10.1063/5.0262531	AIP Conference Proceedings	Publisher: American Institute of Physics Inc.	Yes	Yes
17	2024-25	Dr P. Muralikris hna,	Influence of Nb ⁵⁺ and La ³⁺ ions on physical properties of the quaternary TeO ₂ -ZnO-Nb ₂ O ₅ -La ₂ O ₃ glass system	Ceramics International		yes	yes
18	2024-25	Dr.P.Mura likrishna	Critical Exponent Study and Magnetocaloric Effect of Co _{0.3} Zn _{0.7} Fe ₂ O ₄	Ieee Transactions On Magnetics		Yes	Yes

19	2024-25	P. Muralikrishna,	Uncovering the magnetism, exchange correlation range and universality class of Ni substituted MnCo _{0.7} Fe _{0.3} Ge	Materials Chemistry and Physics		YES	YES
20	2024-25	Dr. Rama Devi	Platycladus Orientalis mediated green synthesis of crystalline palladium nanoparticles as a potential and promising nano catalyst in the degradation of dyes for mitigation of environmental pollution	Inorganic and Nano-Metal Chemistry	Elsevier	YES	YES
21	2024-25	Dr. T.V. Surendra	Synthesis and characterization of multi-responsive iron oxide nanoparticles: Evaluation of antibacterial properties and photocatalytic activity DOI: https://doi.org/10.1016/j.molliq.2024.126619	Journal of Molecular Liquids, Vol. 417, pp. 126619,	Elsevier	Yes	Yes
22	2024-25	Dr. T.V. Surendra	Harnessing durable antimicrobial cellulose cotton fabric coated with silver nanoparticles via a green approach for photocatalytic applications DOI: https://doi.org/10.1016/j.molliq.2024.126483	Journal of Molecular Liquids, Vol. 416, pp.126483		Yes	Yes
23	2024-25	Dr. Saidulu Ganji	One-pot multicomponent approach towards the synthesis of 5-substituted 1H-tetrazoles using lanthanum (III) nitrate hexahydrate as a catalyst	Research on Chemical Intermediates		Spinger	Yes
24	2024-25	Dr. Saidulu Ganji	Cu-Ag/SBA-15 nanocatalysts for the control of microorganisms in water	Discover Nano		Spinger Nature	Yes
25	2024-25	Dr. Saidulu Ganji	Design, Synthesis of Flurbiprofen Based 1,3,4-Oxadiazoles and Constrained Anticancer, Antioxidant Agents: In silico Docking Analysis	Chemistry Biodiversity		Wiley	Yes
26	2024-25	Dr. Saidulu Ganji	One-pot multicomponent approach towards the synthesis of 5-substituted 1H-tetrazoles using	Research on Chemical Intermediates		Spinger	Yes

			lanthanum (III) nitrate hexahydrate as a catalyst				
27	2024-25	Dr. Md Atif Qaiyum	Expired Medicine-Derived Wonder Scavenger for The Removal of Harmful Dyes With No Hazardous Footprint 10.1007/s11270-025-07823-4	<u>Water Air and Soil Pollution</u>	Springer	yes	
28	2023-24	Dr.K.Laxmi	Theoretical and Experimental Study of Structural Aspects of 2-acetonyl-2-methyl Benzothiazoline	ORIENTAL JOURNAL OF CHEMISTRY https://bit.ly/3V19YEe	Oriental Scientific Publishing Co.	No	Yes
29	2023-24	Dr.K.Laxmi	Swissadme Predictions of Pharmacokinetics and Drug-Likeness Properties of Atenolol https://www.ijaresm.com/uploaded_files/document_file/K._Laxmi_TMOt.pdf	International Journal of All Research Education and Scientific Methods (IJARESM),	IJARESM publication	No	No
30	2023-24	Dr.K.Laxmi	Theoretical Study Of Properties Of Sulforaphane A Chemo Preventive Agent Using Chemscketch And Chemicalize Software	International Journal of Research and Analytical Reviews	IJRAR Publishing Services	No	No
31	2023-24	Dr.D.Saritra	Effect of fill pattern on flexural performance of FDM printed PLA	Materials and manufacturing process	Tylor	yes	yes
32	2023-24	Dr.D.Saritra	Development of biocomposites using novel green pea pod lignin and hybridized pod sheath fibre-bamboo epoxy composite for human prosthetic application	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications	Sage	yes	yes
33	2023-24	Dr. G.V.Ramesh	Nanoarchitectonics of cathode electrocatalyst based on CoMn ₂ O ₄ and graphene nanocomposite for fuel cell applications	Applied Nanoscience	Springer	yes	
34	2023-24	Dr. G.V.Ramesh	Advanced copper-based electrocatalysts for the electrochemical reduction of carbon dioxide to valuable fuels: Recent advances	Materials Today: Proceedings	Elsevier	Yes	

35	2023-24	Dr.S.Shylaja	“Nanoscale Bismuth Selenide as an efficient catalyst for solvothermal, and microwave-assisted one-pot synthesis of bis(indolyl)methanes”	Rasayan J. Chem.	Rasayan Journal of Chemistry	Yes	No
36	2023-24	Dr. K. Ramesh	An analytical characterization study on biofuel obtained from pyrolysis of Madhuca longifolia residues”	Scientific Reports	Springer-Nature	Scopus	WoS index
37	2023-24	Dr. K. Ramesh	Carbon Dioxide Adsorption Study on Rice Husk Activated Carbons by Artificial Neural Network (ANN).”	Russian Journal of Applied Chemistry	Springer	Scopus	WoS index
38	2023-24	Dr. K. Ramesh	Linear Regression and Artificial Neural Network-Based wear Performance Prediction of AL 7050 Reinforced by Nano Particles of WC	Journal of the Balkan Tribological Association	Scientific Bulgarian Communications	Scopus	- -
39	2023-24	Dr. P. Muralikrishna,	Influence of Nb ⁵⁺ and La ³⁺ ions on physical properties of the quaternary TeO ₂ -ZnO-Nb ₂ O ₅ -La ₂ O ₃ glass system	Ceramics International	Elsevier	YES	YES
40	2023-24	Dr. P. Muralikrishna,	Restoration of Magnetic Order in Heavy Metal Doped Spin Glass DOI:10.1109/INTERMAGS HORTPAPERS61879.2024.10576842	IEEE International Magnetic Conference - Short Papers (INTERMAG Short Papers)	IEEE	YES	YES
41	2023-24	Dr. P. Muralikrishna,	Investigations on MWO ₄ (M = Cu, Zn, Cd and Sn) nanostructures for detecting toluene gas at room temperature	Sensors & Actuators: A. Physical 368 (Elsevier)	Elsevier	YES	YES
42	2023-24	Dr. P. Muralikrishna,	Magnetic field-induced narrow first-order and metamagnetic phase transitions of Nd ₅ Ge ₃	AIP Advances 14, 025216 (2024)	AIP	YES	YES
43	2023-24	Dr. P. Muralikrishna,	Room temperature sensing of ammonia and formaldehyde gases through novel	Materials Chemistry and Physics,	Elsevier	YES	YES

			anisotypeheterojunction of p-Co3O4/n-Gd0.1Ce0.9O2-δ as highly responsive and stable sensors	Volume 313, 1 February 2024, 128694			
44	2023-24	Dr. P. Muralikrishna,	Natural background outdoor gamma radiation levels and mapping of associated risk in Siddipet district of Telanagana State, India	Nuclear and Particle Physics Proceedings, Volumes 339–340, November 2023, Pages 114-119	Elsevier	YES	YES
45	2023-24	Dr. Ramadevi V,	Platycladus Orientalis Mediate green synthesis of Crystalline Palladiumnanoparticles as a potential and promising nano catalyst in the degradation of dyes for mitigation of environmental pollution	Inorganic and Nano-Metal Chemistry	Taylor and Francis Group	Yes	Yes
46	2023-24	Dr. Ramadevi V,	Iodoxybenzoic Acid (IBX) in Organic Synthesis: A Septennial Review	Current organic synthesis	Bentham Science Publishers	Yes	Yes
47	2023-24	Dr T V Surendra	Design and sustainable production of natural carbon incorporated CuO/C nanocomposite using <i>Cyperus rotundus</i> biomass	Biomass conversion and Biorefinary	Springer	Yes	Yes
48	2023-24	Dr T V Surendra	Synthesis, optical, and spectroscopic studies of bismuth boro-tellurite glass system containing BaO and V2O5	<i>Optical and Quantum Electronics</i>	Elsevier	Yes	Yes
49	2022-2023	Dr. K. Laxmi	Characterization of Ligand N'-[(1E)-1-Phenylethylidene]-1,3-Benzothiazole-2-Carbohydrazide by Using Marvin Sketch 20.8 Software DOI: http://dx.doi.org/10.13005/ojc/380109	ORIENTAL JOURNAL OF CHEMISTRY An International Open Access, Peer Reviewed Research Journal,	ORIENTAL SCIENTIFIC PUBLISHING CO.	No	Yes
50	2022-2023	Dr.D.Saritha	A mini review on alloy-based anode materials for Mg-ion batteries	Material Today: Proceedings	Elsevier	yes	-

				(Scopus)			
51	2022-2023	Dr.D.Saritha	A concise review on cathode materials for Na-ion batteries	Material Today: Proceedings (Scopus)	Elsevier	yes	-
52	2022-2023	Dr. G.V. Ramesh	Recent developments in Pt-based alloy nanoparticles for oxygen reduction reaction in fuel cells	Material Today: Proceedings (Scopus)	Elsevier	yes	
53	2022-2023	Dr. G.V. Ramesh	Synthesis and electrochemical oxygen reduction reaction activities of palladium-based intermetallic nano-electrocatalysts	Material Today: Proceedings (Scopus)	Elsevier	yes	--
54	2022-2023	Dr. G.V. Ramesh	2022-2023	Material Today: Proceedings (Scopus)	Elsevier	yes	--
55	2022-2023	Dr. K. Ramesh	Four Step Synthesis and Characterization of 3-hydroxy-1-methyl-4-(4-(pyridin-4-yloxy) phenethyl) pyridin-2(1H)-one.	European Chemical Bulletin	Deuton-X Ltd.	Scopus	-
56	2022-2023	Dr. K. Ramesh	Utilization of Rice husk as an Activated Carbon Adsorbent for the Purification of Used Cooking Oil.	High Energy Chemistry	Springer Nature	Scopus indexed	WoS indexed
57	2022-2023	Dr. K. Ramesh	Investigation of heat transfer for silver oxide (Ag ₂ O) and iron oxide (Fe ₃ O ₄) using nano fluid over a stretch sheet”	Materials Today: Proceedings	Elsevier	Scopus indexed	WoS indexed
58	2022-2023	Dr. K. Ramesh	Comparative study of adsorption isotherms on activated carbons synthesized from rice husk towards carbon dioxide adsorption	Chemical Papers	Springer Nature	Scopus indexed	WoS indexed
59	2022-2023	Dr. K. Ramesh	Influence of nano-TiC content on the properties of Al ₂ O ₃ aluminium metal matrix composites	Materials Today: Proceedings	Elsevier	Scopus indexed	WoS indexed
60	2022-2023	Dr.S.Shylaja	“Oxidative Dehydrogenation of Ethane with CO ₂ over the Fe-Co/ Al ₂ O ₃ Catalyst: Experimental Data Assisted AI Models for Prediction of Ethylene Yield”	Journal of Industrial & Engineering Chemistry Research	American Chemical Society	Yes	Yes

61	2022-2023	Dr M.Mamat ha	“CHALLENGES AND IMPACT OF GREEN CHEMISTRY CONCEPTS ON SUSTAINABLE ENVIRONMENTAL DEVELOPMENT”	European Chemical Bulletin.,	Deuton-X Ltd.. ,Hung ary	yES	---
62	2022-2023	Dr M.Mamat ha	“ <u>The Development of Terminal Alkynes in Water Using DEMATEL Method</u> ”	Journal on Materials and its Characterizati on	Rest publishers	--	--
63	2022-2023	Dr. Rama Devi V	Synthesis of titanates for photomineralization of industrial wastewater and organic pollutants.	Environmental Science: Water Research & Technology journal, 2022, 8, 3065-3078.	Royal Society of chemistry	Yes	Yes
64	2022-2023	Dr. Rama Devi V	A new RP-HPLC analytical method Development and validation for Dexbrompheniramine and Pseudoephedrine, International Journal of Chemical and Pharmaceutical Sciences	International Journal of Chemical and Pharmaceutica l Sciences,PP:1-8, Vol 13(3), Sep 2022	Open access online journal	--	--
65	2022-2023	Dr T V Surendra	Effect of BaO/TeO ₂ oxide ratio in TiO ₂ .B ₂ O ₃ .Fe ₂ O ₃ glasses: Physical, thermal and optical absorption studies	Materials Today: Proceedings	Elseive	Yes	Yes
66	2022-2023	Dr T V Surendra	Green Synthesis of Stannic Oxide Nanoparticles for Ciprofloxacin Degradation: Optimization and Modelling Using a Response Surface Methodology (RSM) Based on the Box– Behnken Design	Journal of Cluster Science	Springer	Yes	Yes
67	2022-2023	Dr T V Surendra	Box–Behnken response surface methodology design for amaranth dye degradation using gold nanoparticles	Optik	Elseiver	Yes	Yes
68	2022-23	Sathish Kumar K	The Role of Nanomaterials in Radioactive Waste Reductionand Decontamination : A Concise Review	Lecture notes in Mechanical Engineering	Springer Nature Singapore		

69	2022-2023	Dr. Sathish Kumar	Nanomaterials and Nanostructures in Additive Manufacturing: Properties, Applications, and Technological Challenges	Nanotechnology -Based Additive Manufacturing: Product Design, Properties and Applications	Wiley -VCH GmbH	yes	-
70	2021-2022	Dr. K. Laxmi	Performance Parameters of Two Stroke and Four Stroke Copper Coated Spark Ignition Engines	GRADIVA REVIEW JOURNAL,VOLUME 8 ISSUE 6 , 2022, pg 501-511	State University of New York	Yes	No
71	2021-2022	Dr. K. Laxmi	Control Of Exhaust Emissions Of Two Stroke And Four Stroke Copper Coated Spark Ignition Engines	International Journal Of Mechanical Engineering And Technology (Ijmet),	IAEME Publication	No	No
72	2021-22	Dr. K. Laxmi	Reduction Of Pollutants From Copper Coated Spark Ignition Engine With Alcohol Blended Gasoline	International Journal of Mechanical Engineering and Technology (IJMET)	IAEME Publication	No	No
73	2021-2022	Dr.D.Saritha	Current advancement on anode materials for Na-ion batteries: Review	Material Today: Proceedings (Scopus)	Elsevier	yes	-
74	2021-2022	Dr.D.Saritha	A concise review on the removal of heavy metals from wastewater using adsorbents	Material Today: Proceedings (Scopus)	Elsevier	yes	-
75	2021-2022	Dr.D.Saritha	Effect of alternate fill pattern on mechanical properties of FDM printed PC-PBT alloy	Material Today: Proceedings (Scopus)	Elsevier	yes	-
76	2021-2022	Dr.D.Saritha	Contemporary advancement on the alloy-based anodes for Sodium-ion batteries	Material Today: Proceedings (Scopus)	Elsevier	yes	-

77	2021-2022	Dr.D.Saritha	Pt- and Pd- based intermetallic anode catalysts for direct ethanol fuel cell (DEFC): An overview	Material Today: Proceedings (Scopus)	Elsevier	yes	-
78	2021-2022	Dr. G.V. Ramesh	Pt- and Pd- based intermetallic anode catalysts for direct ethanol fuel cell (DEFC): An overview	Material Today: Proceedings (Scopus)	Elsevier	yes	--
79	2021-2022	Dr. G.V. Ramesh	Contemporary advancement on the alloy-based anodes for Sodium-ion batteries	Material Today: Proceedings (Scopus)	Elsevier	yes	--
80	2021-2022	Dr. K. Ramesh	Ultrasonically Synthesis of 3-Aryl-1-[3-(3-Methylphenyl)] [1, 8]Naphthyridin-2-Yl]-1h-4Pyrazolecarbaldehydes	Asian Journal of Organic & Medicinal Chemistry	Asian Publication Corporation	Scopus indexed	-
81	2021-2022	Dr. K. Ramesh	Efficient synthesis of substituted [1, 2, 4] triazolo[4,3-a][1,8] naphthyridines”	High Technology Letters Journal	Institute of Scientific and Technical Information of China	Scopus indexed	-
82	2021-2022	Dr M.Mamatha	Synthesis of 2-alkyl/aryl-3-aminobenzo[h]Quinazolin-4(3H)-ones and 2-alkyl/aryl-3-arylideneimino benzo[h]Quinazolin-4(3H)-ones	Gedrag &Organisatie Review	Amsterdam University Press	--	--
83	2021-2022	Dr.P.Muralikrishna,	“Vibrational, thermal and optical studies of 30TeO ₂ .39.5B ₂ O ₃ .(30-X)-ZnO-xLi ₂ O-0.5V ₂ O ₅ (0≤x≤30 mol%) glass system”., 566, 120875-120882, 2021.	Journal of Non-Crystalline Solids	Elsevier	YES	YES
84	2021-2022	Dr. N. Mahender Reddy	Pt- and Pd- based intermetallic anode catalysts for direct ethanol fuel cell (DEFC): An overview	Material Today: Proceedings (Scopus)	Elsevier	Yes	NO
85	2021-2022	Dr. N. Mahender Reddy	Contemporary advancement on the alloy-based anodes for Sodium-ion batteries	Material Today: Proceedings (Scopus)	Elsevier	Yes	NO

86	2021-2022	Dr. Sathish Kumar Kurapati*	Transmetalation: A Post - synthetic Modification Tool for Functional Metal – Organic Framework Materials	Lecture notes in Mechanical Engineering	Springer Nature Singapore	--	--
87	2021-2022	Dr. Sathish Kumar Kurapati,	Barrel -shaped - polyoxometalate s exhibiting electrocatalytic water reduction at neutral pH: A synergy effect	Inorganic Chemistry	American Chemical Society	--	--
88	2021-2022	Dr. Sathish Kumar Kurapati,	W VI –OH functionality on polyoxometalate s for water reduction to molecular hydrogen	Inorganic Chemistry Frontiers	Royal Society of Chemistry		
89	2021-2022	Dr. Sathish Kumar Kurapati,	Discovery of (±) - 3 -(1 H - pyrazol - 1 -yl) -6, 7 - dihydro -5 H -[1, 2, 4] triazolo [3, 4-b][1, 3, 4] thiadiazinederivatives with promising in vitro anticoronavirus and antitumoral activity	Molecular Diversity	Springer International Publishing	--	--
90	2020-2021	Dr. K. Laxmi	Investigations On Reduction Of Emissions In Spark Ignition Engine	International Journal of Mechanical Engineering and Technology (IJMET)	IAEME Publication	No	No
91	2020-2021	Dr. K. Laxmi	Control Of Pollutants From Copper Coated Spark Ignition Engine With Butanol Blended Gasoline	Poll Res. 40 (May Suppl. Issue) : S173-S180 (2021), ISSN 0257–8050	EM International	No	No
92	2020-2021	Dr. K. Laxmi	Study of Structure of Buckminsterfullerene Using Nanotube Modellar Software	International Journal of Scientific Engineering and Science	IJSES, INDIA	No	No
93	2020-2021	Dr.D.Saritha	Effect of fill pattern and printing speed on friction characteristics of FDM printed polylactic acid polymer”,	Advances in Materials and Processing Technologies (Scopus)	Taylor& Francis	yes	-
94	2020-2021	Dr.D.Saritha	A concise review on 4D printing technology	Material Today: Proceedings (Scopus)	Elsevier	yes	-

95	2020-2021	Dr.D.Saritha	Synthesis and electrochemical properties of Fe ₂ WO ₆	Material Today: Proceedings (Scopus)	Elsevier	yes	-
96	2020-2021	Dr.D.Saritha	Recent progress on ReO ₃ type structures as electrodes for Li- ion batteries	Material Today: Proceedings (Scopus)	Elsevier	yes	-
97	2020-2021	Dr.D.Saritha	Synthesis and Electrochemical Analysis of Li ₃ Ti _{0.75} (MoO ₄) ₃ Phase with Lyonsite Structure	Russian Journal of Electrochemistry (SCI & Scopus)	Springer	yes	yes
98	2020-2021	Dr. G.V.RAMESH	Intermetallic Pd ₃ X (X= Ti and Zr) nanocrystals for electro-oxidation of alcohols and formic acid in alkaline and acidic media.	Science and Technology of Advanced Materials	taylor and francis	yes	yes
99	2020-2021	K. Ramesh	Anticancer Activity of 6-Aryl-9,10-Dimethoxy-12H-[1,8] Naphthyridino [2,1-b]Quinazolin-12-Ones”	Proteus Journal	Shippensburg Univ Pennsylvania	Scopus indexed	-
100	2020-2021	K. Ramesh	Insilico Molecular Docking Lung Cancer studies of some hydrazone derivatives and series of linker different tetrazolo pyridines	Proteus Journal	Shippensburg Univ Pennsylvania	Scopus indexed	-
101	2020-2021	K. Ramesh	Ionic liquid catalyzed ambient synthesis of cholest-6-eno-4H-pyron hybrids and their in vitro anti-cancer evaluation”	Research Journal of Chemistry and Environment	International Congress of Chemistry and Environment	Scopus indexed	-
102	2020-2021	Dr.S.Shylaja	”Micellar effects on the kinetics and mechanism of ceric ammonium nitrate oxidation of bicyclic monoterpenes under acid free conditions”	International Journal of Chemical Data Collections	Elsevier	Yes	Yes
103	2020-2021	Dr.S.Shylaja	“Catalytic Oxidation of Certain Xanthine Alkaloid Compounds under Conventional and Non-Conventional Conditions”,	Journal of Science and Technology		Yes	No

104	2020-21	Dr M.Mamat ha	Heterocycles based on naphthalene-A review	Gedrag &Organisatie Review	Amsterdam University Press	--	--
105	2020- 2021	Dr M.Mamat ha	Chemistry of 1,1,1,-Trifluoro methyl ketone and its reaction with Grignard reagent	Gedrag &Organisatie Review	Amsterdam University Press	--	--
106	2020- 2021	Dr M.Mamat ha	Microwave Assisted One Pot Synthesis of Benzo[h] Quinazolin-4(3H)-ones	Gedrag &Organisatie Review	Amsterdam University Press	Yes	--
107	2020- 2021	,Muralikri shnaPatwa ri	“An efficient synthesis, anti- inflammatory activity and molecular docking studies of new triazinanes and iminothiazolidinones”	Research J. Pharmacy and Technology 13(10): 4743- 4750, October 2020.	RJPT	YES	---

a) Text Books / Book Chapters

S.No	Year	Author Name	Title of the Book	Publish er	Nation al/Inte rnatio nal	ISBN No	Chapter no along with DOI
1.	2024-25	Dr. T.V. Surendra	Advances in Carbohydrate Polymer Based Nanocomposites for Photocatalytic Application, Carbohydrate Polymer Nanotechnologies	Springer Nature	Interna tional	978-981- 96-2171- 2	https://doi.org/10.1007/978-981-96-2171-2_13
2.	2024-25	Dr. T.V. Surendra	Preparation and Applications of Carbohydrate Polymer-Based Hydrogels, Carbohydrate Polymer Nanotechnologies	Springer Nature	Interna tional	978-981- 96-2171- 2	https://doi.org/10.1007/978-981-96-2171-2_2

3.	2024-25	Dr. T.V. Surendra	Carbohydrate Polymeric Nanocomposites for Biological Applications, Carbohydrate Polymer Nanotechnologies,	Springer Nature	International	978-981-96-2171-2	https://doi.org/10.1007/978-981-96-2171-2_3
4.	2024-25	Dr. T.V. Surendra	Nanocomposites of Carbohydrate Polymers for Hydrogen Storage, Carbohydrate Polymer Nanotechnologies	Springer Nature	International	978-981-96-2171-2	https://doi.org/10.1007/978-981-96-2171-2_17
5.	2024-25	K.Laxmi	Recent Developments in Chemistry and Biochemistry Research Vol. 6, 23 September 2024 , Page 155-167 Published: 2024-09-23	BP International	International	978-93-48119-35-3 (Print) 978-93-48119-69-8 (eBook)	https://doi.org/10.9734/bpi/rdcbr/v6/2542
6.	2024-25	K.Laxmi	"Recent Advancements in Management, Arts and Science - RAMEAS 2024"	Tech Press Delhi	International	--	https://drive.google.com/file/d/11HYGeg3ny81Mc_sF2xqM5p9kRcVbiA1h/view?usp=sharing
7.	2024-25	D.Saritha	Exploring Lithium Intercalation in Dual-Phase FeNbO ₄	Lambert	International	978-620-8-44533-1	-
8.	2024-25	Dr. K. Ramesh	Engineering Chemistry	SciTech Publication	National	978-93-92399-96-1	
9.	2024-25	Kola Ramesh,	Book Title: Real-World Challenges in Quantum Electronics and Machine Computing, Chapter Title: Towards Green Chemistry Quantum Computing Applications in Chemical Synthesis.	IGI Global Publishers	International	9798369350447	https://www.igi-global.com/chapter/towards-green-chemistry-quantum-computing-applications-in-chemical-synthesis/353118

10.	2024-2025	Dr M.Mamatha	“Inorganic Chemistry”	Rest Publisher	National	ISBN:978-81-985519-3-1, 2025	--
11.	2023-2024	Dr.K.Laxmi	E-Book - TDEMAs 2023 Technological Developments in Engineering, Management, Arts and Science TDEMAs 2023 Knowledge Research Academy, Coimbatore	Tech Press ,Delhi	National	978-93-91697-20-4	https://drive.google.com/file/d/1fe5e_Ke-Q1vuSrEf3XaOd1vPA2skM_Mh/view?usp=drive_link
12.	2023-2024	Dr.D.Saritha	Fluoropolymer nanocomposites for water desalination applications	Elsevier	International (Book chapter)	Book chapter	https://doi.org/10.1016/B978-0-323-95335-1.00004-9
13.	2023-2024	Dr.D.Saritha	Tissue Engineering: Crafting Polymer Scaffold with AM Techniques	Lambert	International (Book)	978-620-7-46030-4	--
14.	2023-2024	Dr.D.Saritha	Revolutionizing Energy Storage: Tomorrows advances in 3D Printing	Lambert	International (Book)	978-620-7-45935-3	--
15.	2023-2024	Dr.D.Saritha	Advances in Cathodes with Nasicon Structure for Na-ion Batteries	Lambert	International (Book)	978-620-7-46031-1	--
16.	2023-2024	Dr. G.V.Ramesh	Functionalized magnetic nanosystems for medical imaging, Editor(s): Kalim Deshmukh, Chaudhery Mustansar Hussain, In Micro and Nano Technologies, Functionalized Magnetic Nanosystems for Diagnostic Tools and Devices	Elsevier	International	9780443190124	Chapter 12, https://doi.org/10.1016/B978-0-443-19012-4.00022-9

17.	2023-2024	Dr.K.RAMESH	Engineering Chemistry	SciTech Publication	National	978-93-92399-96-1	--
18.	2023-2024	N, Mahender Reddy	BOOK TITLE: Functionalized Magnetic Nanosystems for Diagnostic Tools and Devices CHAPTER TITLE: Chapter 12 - Functionalized magnetic nanosystems for medical imaging	Elsevier Inc.	International	978-0-443-19012-4 https://doi.org/10.1016/B978-0-443-19012-4.00022-9	Chapter 12 - Functionalized magnetic nanosystems for medical imaging 10.1016/B978-0-443-19012-4.00022-9
19.	2022-2023	Dr.D.Saritha	ReO ₃ type structures as electrode materials for Li-ion Batteries	Lambert	International	ISBN:9736206153917.	--
20.	2022-2023	G. Venkata Ramesh & N. Mahender Reddy	Metal Oxides as Support Materials for Electrocatalysts in Fuel Cells	lambert academic publishing	International	978-620-5-50215-0	--
21.	2022-2023	Gubbala V. Ramesh	From Chemistry to Power: A Journey into Fuel Cell Technology	lambert academic publishing	International	978-620-6-17876-7	--
22.	2022-2023	Gubbala V. Ramesh	Powering the Future: A Comprehensive Guide to Battery Technology and Its Potential	Vandana Publications	National	9789390728305	--
23.	2022-2023	Gubbala V. Ramesh & N. Mahender Reddy	4D Printing: Exploring the Next Revolution in Additive Manufacturing	lambert academic publishing	International	978-620-6-73885-5	--

24.	2022-2023	Dr. Ramesh kola	Essentials of Nano Technology	Scientific International Publishing House (SIPH)	International	978-93-5625-476-3	https://www.flipkart.com/essentials-nano-technology/p/itm1a4bcdaf0a119-
25.	2022-2023	Dr. K.Ramesh	Engineering Chemistry	SciTech Publication	National	978-93-85983-98-6	https://getmybooks.com/engineering-chemistry/p/4b9e075292
26.	2022-2023	Dr. K.Ramesh	Book Title: Nanotechnology-Based Additive Manufacturing, Chapter Title: Nanomaterials and Nanostructures in Additive Manufacturing: Properties, Applications, and Technological Challenges.	Wiley Publishers	International	9783527835478	Chapter 3 https://doi.org/10.1002/9783527835478.ch3
27.	2022-2023	G. Venkata Ramesh &N. Mahender Reddy	Metal Oxides as Support Materials for Electrocatalysts in Fuel Cells	lambert academic publishing	International	978-620-5-50215-0	--
28.	2022-2023	Gubbala V. Ramesh &N. Mahender Reddy	4D Printing: Exploring the Next Revolution in Additive Manufacturing	lambert academic publishing	International	978-620-6-73885-5	--
29.	2022-2023	Dr M.Mamatha	"Frontiers of Chemical Sciences"	Navanila Maruthi Publication, Coim	National	ISBN 978-81-951871-2-6.	--

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30.	2022-23	Dr TV Surendra	Bio-Inspired Metal Oxide Nanostructures for Photocatalytic Disinfection	Materials Research Forum LLC	International	978-1-64490-183-6	--
31.	2021-22	K. Laxmi	Determining the Properties of Phenobarbital an Antiepileptic Drug Using Chemcalise Software, Challenges and Advances in Chemical Science, Vol. 6, 23 October 2021 , Page 10-21 https://doi.org/10.9734/bpi/cacs/v6/5051 F	B P International	International	Print ISBN: 978-93-5547-100-0, eBook ISBN: 978-93-5547-106-2	Chapter no.3 https://doi.org/10.9734/bpi/cacs/v6/5051F
32.	2021-22	K. Laxmi	Structural Aspects of Indoline-2,3-dione-3-oxime: An Approach towards Experimental and Theoretical Perspectives, New Innovations in Chemistry and Biochemistry Vol. 6, 31 December 2021. Page -99-109 https://doi.org/10.9734/bpi/nicb/v6/2243C	B P International	International	Print ISBN: 978-93-5547-091-1, eBook ISBN: 978-93-5547-143-7	Chapter no. 8 DOI: 10.9734/bpi/nicb/v6/2243C
33.	2021-2022	Dr.D.Saritha	Structurally connected vanadates and molybadates as electrode materials for Li-ion batteries	Lambert	International	ISBN:9786203307528	--
34.	2021-2022	Dr. K.Ramesh	Concise Physical Chemistry (Volume -	Integrated	National	978-93-90471-	https://doi.org/1

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35.	2021- 2022	Dr. K.Ramesh	Concise Physical Chemistry (Volume - I)	Integrated Publication	National	978-93- 90471- 21-8.	https://doi.org/10.22271/int.boo k.90
36.	2021- 2022	Dr. K.Ramesh	Book Title: Advanced Nanomaterials for Point of Care Diagnosis and Therapy, Chapter Title: Carbon nanomaterials: Application as sensors for diagnostics.	Elsevier Publishers	International	978-0- 323- 85725-3	Chapter 11 https://doi.org/10.1016/B978-0- 323-85725- 3.00015-5
37.	2020-21	K. Laxmi	Antiepileptic Drug Phenobarbital: A Chemskech Study , <i>New Innovations in Chemistry and Biochemistry Vol. 1</i> , 20 August 2021 , Page 26-36 https://doi.org/10.9734/bpi/nicb/v1/3429F Published: 20th August 2021	B P International	International	Print ISBN Number: 978-93- 91473- 81-5 E ISBN Number: 978-93- 91473- 88-4	Chapter no.3 https://doi.org/10.9734/bpi/nicb/ v1/3429F
38.	2020- 2021	Dr. K.Ramesh	A TO Z Organic Named Reactions	Integrated Publication	National	978-93- 90471- 61-4.	https://doi.org/10.22271/int.boo k.47
39.	2020- 2021	Dr. K.Ramesh	Materials Processing & Characterization	Vandana Publications	National	978-81- 946476- 9-0	https://www.van danapublication s.com/ app_data /magazine/2023 1209151818- 2020-09- 1819.pdf?srsId =AfmBOorahK pCu5H9fK- SikkxEZMsiMk

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40.	2020-2021	Dr. K.Ramesh	Book Title: 2D Functional Nanomaterials: Synthesis, Characterization and Applications, Chapter Title: 2D Nanomaterials for Photocatalysis and hot electrocatalysis.	Wiley Publishers	--	9783527823949	https://doi.org/10.1002/9783527823963.ch22 -

2. Details of patents Filed / Published /Granted and income generated:

Sr. No.	Year	Title of the Patent	Patent no	Status (Filed/Published/Granted)
1	2024-25	Spectral, Luminescence Properties and Antimicrobial activities of Lanthanide Complexes with 2-Hydroxy Naphthaldehyde Benzoyl Hydrazone	202541037513	Published
2	2024-25	METHOD FOR FABRICATING MULTI-LAYERED NANOCOMPOSITE PANELS WITH TUNABLE THERMAL AND ELECTRICAL CONDUCTIVITY	202541045859A	Published
3	2024-25	HIGH-STRENGTH, LIGHTWEIGHT FIBER-REINFORCED COMPOSITE MATERIAL WITH ENHANCED IMPACT RESISTANCE FOR AEROSPACE STRUCTURES"	202541045862A	Published
4	2025	Gadolinium-Doped Spinel Ferrites with Improved Antimicrobial Efficacy and Magnetic Properties	Application No.202541004270 A	Published
5	2025	Porous g-C ₃ N ₄ -Based Nanocomposites with Metal Oxide Nanoparticles for Antibacterial Applications and Method of Making the Same	Application No.202441083632 A	Published
6	2025	Spectral, Luminescence Properties and Antimicrobial activities of Lanthanide Complexes with 2-Hydroxy Naphthaldehyde Benzoyl Hydrazone	202541037513	Published
7	2023-2024	Method For Producing Lightweight, High-Strength Composite Materials Using Aligned Carbon Nanotube Arrays	File No.202441017994 A	Published Publication date: 29/03/2024
8	2023-2024	Techno-environmental feasibility assessment of a standalone photovoltaic system.	File No 202341087248 A	Published Publication date: 20/12/2023
9	2023	Catalytic system forefficient conversion of methane to liquid hydrocarbons	File No. and date 20234101771	Published on 22-12-2023

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10	2024	METHOD FOR PRODUCING LIGHTWEIGHT, HIGH-STRENGTH COMPOSITE MATERIALS USING ALIGNED CARBON NANOTUBE ARRAYS	20244101799 4 A	Published
11	2021-2022	Synthesis of E-Waste Based on Machine Learning & Artificial Intelligence Autonomous Management System for Smart Environment.	File No 20214104478 3 A	Published Publication date: 15/10/2021
12	2021-2022	Machine Learning and IOT based Smart Wearable system for Autonomous Management of Diabetes Mellitus.	File No 20214103057 1 A	Published Publication date: 16/07/2021
13	2020-2021	Effect of Chemical Treatment on Natural Fibre reinforced composites	20214100330 8A	Published