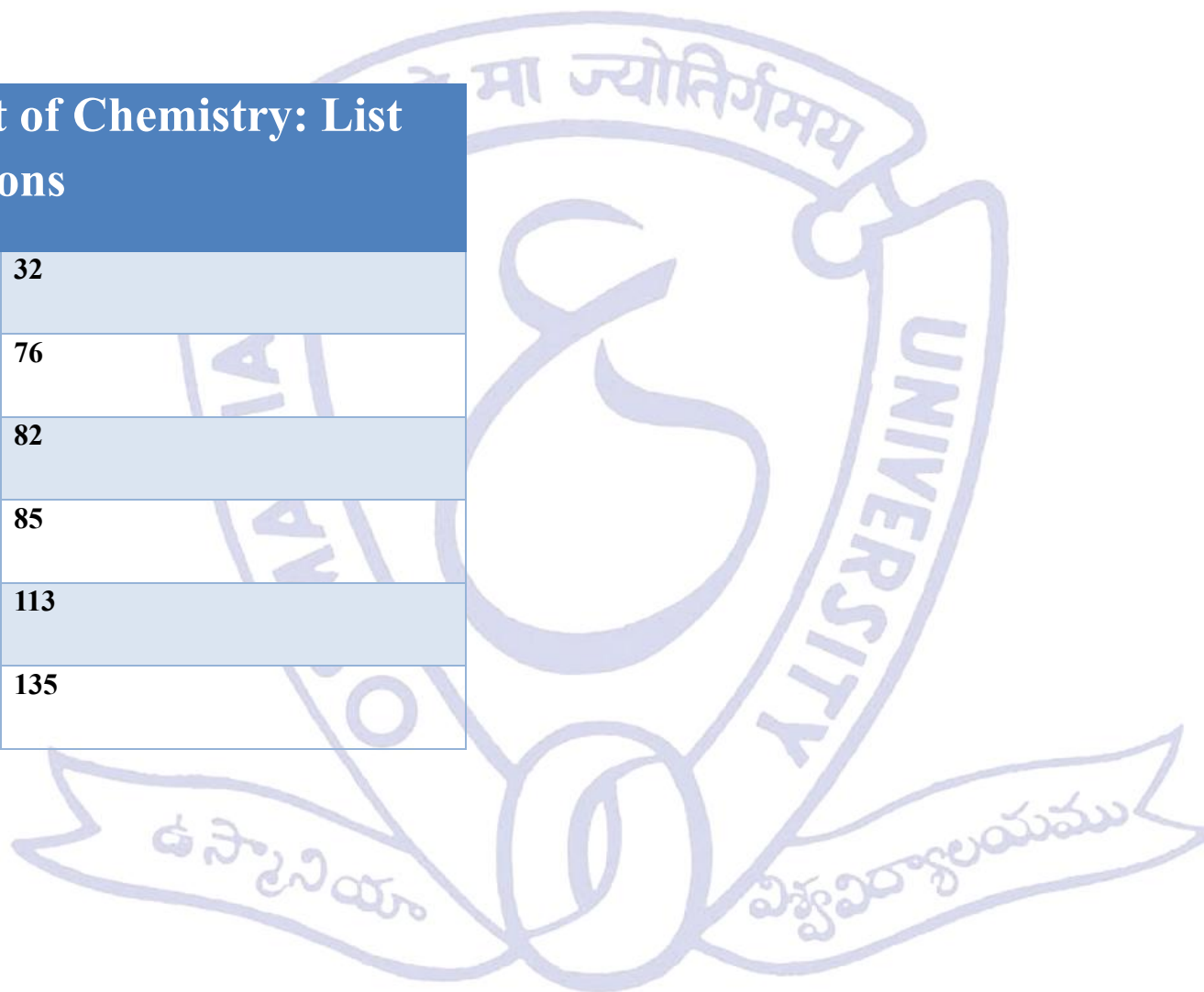


Department of Chemistry: List of Publications

Till July 2024	32
2022-2023	76
2021-2022	82
2020-2021	85
2019-2020	113
2018-2019	135



Department of Chemistry: List of Publications 2024

Sl. No	Name of the author/s	Title of paper	Name of journal	Year of publication Volumes. Issuee	ISSN number	Impact factor of the journal	Link to the recognition in UGC enlistment of the Journal
1	Keshavulu Masula, Ranjith Kore, Yadagiri Bhongiri, Someshwar Pola, Manohar Basude	Ag-Li-ZnO nanostructures for efficient photocatalytic degradation of organic dyes and textile wastewater under visible light treatment	Journal of Molecular Structure	2024 Vol 1305 Pages 137750	0022-2860	3.196	https://doi.org/10.1016/j.molstruc.2024.137750
2	R. Parikirala, R. Kore, V. Rohini, D. V. Rao, P. Chetti, Someshwar Pola	Synthesis of New Cu/Zn (II) Complexes for Sonophotocatalysis for Mineralization of Pesticides and Agrochemical Wastewater	J. Environ. Chem. Eng.,	2024, 113471	ISSN: 2213-2929 eISSN: 2213-3437	7.5	https://doi.org/10.1016/j.jece.2024.113471
	Vishnu Thumma , Veerabhadraiah Mallikanti , Raghavender Matta , Pochampally Jalapathi* and Ravinder Dharavath.	Design, Synthesis, and Cytotoxicity of Ibuprofen Appended Benzoxazole Analogues against Human Breast Adenocarcinoma.	RSC Medicinal Chemistry,	2024		4.1	https://doi.org/10.1039/D3MD00479A
3	Anjum Fatima, P. Nirmala Jyothi and B. Sireesha	Biological and equilibrium studies of Co(II), Cu(II), Zn(II), and Cd(II) complexes of 1- formyl-3-semicarbazide: Docking studies	Applied Organometallic Chemistry	38(7), 2024, 1-16,	ISSN 0268-2605 , 1099-0739	4.072	http://doi.org/10.1002/aoc.7529

4	M. Erragolla, R, Gade, R. Kore, S. N. Babu, S. V. Manorama, P Chetti, Someshwar Pola	Photomineralization of urban stormwater under visible light irradiation by using new tellurium-based defect pyrochlores,	Sus.Chem. Environ.	2024	5, 100080.	7.804	
5	Sasikumar Boggala, Vishali Bilakanti, Hari Padmasri Aytam, Kalpana Manda, Shirisha Varimalla and Venugopal Akula	Surface Lewis Basic Site Enabled Proton Abstraction for the Regioselective Synthesis of Ynone and Flavone over Pd0/Cs-ZSM-5 Catalyst: Mechanistic Understanding and Structure-Activity Correlation. <i>Accepted for publication in, Article in press</i>	Catalysis Science and Technology	2024	ISSN: 2044-4761; IF = 6.177	4.4	https://doi.org/10.1039/D4CY00409D
6	Trinadh Amarapuri, Srikanth Koneti, Vithal Muga, Srinivas Mudavat	Preparation, Characterization, Photoluminescence and Thermoluminescence Studies of $\text{Li}_{2-3} \times \text{Ln} \times \text{GeTeO}_6$ ($\text{Ln} = \text{Eu}^{3+}, \text{Tb}^{3+}$; $x = 0.0, 0.02, 0.05, 0.075$ and 0.1)	Journal of Electronic Materials	2024/8/7S pringer US	ISSN 0361-5235	1.774	https://doi.org/10.1007/s11664-024-11334-z
7	Asha Siddikha, Boodida Sathyanarayana, Vithal Muga, Mohd Abdul Mujeeb	Preparation, characterization and photocatalytic studies of defect pyrochlore, $\text{KMnO}_4 \cdot 33\text{TeO}_6$ and its composite with g-C ₃ N ₄	Chemistry of Inorganic Materials	2024/8/13 100053	ISSN 2949-7469	1.7	https://doi.org/10.1016/j.cinorg.2024.100053
8	Manasa Sunku, Venkataswamy Perala, Leelavathi Panaganti, Vithal Muga	A visible light driven photocatalyst Ag/AgBr/SrSb ₂ O ₆ for removal of model organic contaminants and hexavalent chromium	Optik	2024 Volume 304(171731)	ISSN 0030-4026	3.1	https://doi.org/10.1016/j.ijleo.2024.171731
9	Asha Siddikha, Mohd Abdul Mujeeb, K Swetha, Boodida Sathyanarayana, Muga Vithal	Synthesis of novel Ag/AgBr/K _{0.4} Y _{0.7} Sb ₂ O ₆ . 25 nanocomposite with enhanced photocatalytic properties	Optik	2024 Vol.303(171745)	ISSN 0030-4026	3.1	https://doi.org/10.1016/j.ijleo.2024.171745
10	Shirisha Varimalla, Kalpana Manda, Sasikumar Boggala, Rohitha Chozhiyath Nappuni,	Effect of method of preparation of Ni and/or Cu supported on ZSM-5 catalysts	Catalysis Today	(2024)	ISSN: 0920-5861;	5.3	

	Sreedhar Inkollu, Hari Padmasri Aytam and Venugopal Akula	for the aqueous phase hydrogenation of levulinic acid to γ -valerolactone					
11	Kalpna Manda, Sasikumar Boggala, Shirisha Varimalla, Hari Padmasri Aytam, Pratyay Basak, Sreedhar Inkollu and Venugopal Akula	Zero-Emission Hydrogen Production by CH ₄ Pyrolysis over Ni/Ferrierite Catalyst: Examination of the Deactivated Catalysts for Electrical Conductivity and H ₂ storage Properties.;	International Journal of Hydrogen Energy	68 (2024) 511-519	ISSN: 0360-3199	7.139	
12	Kandukuri Venkateshwarlu, Manda Kalpna, Aytam Hari Padmasri,* Burri Vijayalaxmi, Mavurapu Satyanarayana, Vasam Chandra Sekhar	Clean hydrogen production via methane cracking over Ni supported on ceria-silica catalysts	Oriental Journal of Chemistry	40(3) (2024) 5	ISSN : 0970-020X, ISSN : 2231-5039	0.8	
13	E. Praveen Kumar, N. Chanakya, Ayesha Siddiqua, Kurugundla Gopi Krishna, B. Vijaya Kumar, P. Muralikrishna, G. Upender	Investigations on MWO ₄ (M = Cu, Zn, Cd and Sn) nanostructures for detecting toluene gas at room temperature	Sensors & Actuators: A. Physical	2024	368 115094.	4.6,	doi.org/10.1016/j.sna.2024.115094
14	D. Satya Vardhan, Ch Sameera Devi, P. Nagaraju, P. Muralikrishna, B. Vijaya Kumar, G. Upender	Room temperature sensing of ammonia and formaldehyde gases through novel anisotype heterojunction of p-Co ₃ O ₄ /n-Gd _{0.1} Ce _{0.9} O ₂ - δ as highly responsive and stable sensors,	Materials Chemistry and Physics	313 (2024)	128694	4.6,	doi.org/10.1016/j.matchemphys.2023.128694.
15	Sammita Durga Bhavani; Revathy Sundara Moorthy; Sreenu Daravath; Rohini Rondla; P. Muralidhar Reddy	Synthesis, Structure, Antimicrobial, DNA Binding and DFT Analysis of Bioactive Cu(II), Ni(II) and Co(II) Complexes Obtained from (Thiophene-2-yl)Methanamine Schiff Base Ligands	Asian J. Green Chem	8, 4, 2024, 457-477. 1495	Print ISSN: 2588-5839: Online ISSN: 2588- 4328	Cite Score 2023=3.7	doi: 10.48309/ajgc.2024.454525.

16	M. Sridhar; Gangalla Ravi; K. Laxma Reddy; P. Muralidhar Reddy; P. Ramesh; A. Krishnam Raju.	Synthesis of Co(II) Metal Complexes of Tryptanthrin Schiff Bases, Characterization, their Biological Evaluation, and Molecular Docking Studies	Asian J. Green Chem	8, 4, 2024, 441-456	Print ISSN: 2588-5839; ISSN: 2588-4328	Cite Score 2023=3.7	doi: 10.48309/ajgc.2024.455141.1498
17	S. Swarnalatha; Narmada Vallakeerthi; Revathy Sundara Moorthy; Kavitha Pingili; P. Muralidhar Reddy	Development and Validation of Stability Indicating RP-HPLC Method for Simultaneous Determination of Selected Drugs Using Green Assessment in Bulk and Pharmaceutical Dosage Form	Asian J. Green Chem., 8, 4, 2024, 478-496.		Print ISSN: 2588-5839; Online ISSN: 2588-4328	Cite Score 2023=3.7	doi: 10.48309/ajgc.2024.454781.1497,
18	Y Goli J. Rupa, Dharavathu Veeranna and J. Ramchander	Synthesis of new quinolone based morpholine-1,2,3-triazole hybrids and their cytotoxicity	ASIAN JOURNAL OF CHEMISTRY	Vol 36No. 2(2024)	0975-427X	0.16	
19	Vasantham Amrutha, Vijayalaxmi Burri, Venkatesham Kothabai, Rohitha Nappunni and Hari Padmasri Aytam	Effect of La loading on the Photocatalytic Degradation of Brilliant Yellow and Acid Blue Dyes in Visible Light and Sunlight over La ₂ O ₃ -TiO ₂	Nanocomposites Asian Journal of Chemistry	36(1) (2024) 69-80	ISSN: 0970-7077	1.68	
20	S Yelagandula, RR Eragari, A Ramakrishna Reddy, LR Kotha, PR Adulla	Impact of Ce–Cu metal ions on structural, magneto-electrical properties of Co ²⁺ based nano ferrites and their application in photocatalytic activity	Chemical Papers	2024 Vol 78, 5131-5150,		2.1	
21	Maligi Malathi, Radha Velchuri, Gundeboina Ravi, Chandhiri Sudhakar Reddy, Muga Vithal	Preparation, characterization and photocatalytic studies of cation (Ag ⁺) and anion (N ₃ [–]) doped K ₂ Zn (PO ₃) ₄	Journal of Materials Science: Materials in Electronics	Vol.35 Issue 12 Pages 1-17	Publisher Springer US		

22	B Sonyanaik, D Ravi, K Kishore, P Shyam, B Sakram	Green pathway for the construction of aryl-1, 8-naphthyridine-thiazole scaffolds and in vitro-antimicrobial evaluation, DNA binding interactions, viscosity measurements, molecular modeling studies and ADME properties	Research on Chemical Intermediates	50 1 265-279 2024.			
23	G. Swarupa, N. Anuradha, K. Narsimha, Kathi Sudarshan, G. Upender B. Vijaya Kumar	Enhanced Photocatalytic Efficiency of BaTiO ₃ Augmented by ZnS Nanospheres via Type-II Heterojunction for Methyl Orange Degradation	Mater. Sci. Semicond. Process	Accepted	I.F: 4.2 4		
24	Ramesha Thongolla, Pulabala Ramesh, Sailam Sri Gogula, Vankadari Srinivasa Rao, Rohini Rondla, and P. Muralidhar Reddy,	Design, synthesis and molecular docking studies of new phenanthrene-linked oxadiazoles as potential antimicrobial agents	Journal of Molecular Structure	2024 1300, 137260	ISSN: 0022-2860; ELSEVIER	3.841	
25	Nakka Srisailam, Narmada Vallakeerthi, Revathy Sundara Moorthy, Kavitha Marapakala	Simultaneous RPHPLC Estimation, Validation and Stability Indicating Assay of Two Component Tablet Formulation Containing Grazoprevir and Pibrentasvir	IGPQA	2024 15 896-901			
26	Sharadha, N., Kumari, H. K. and Reddy, R. J.*	Transition-Metal-Free Annulation of Sulfonyl-Derived 1,3-Enynes: Simple and Efficient Construction of 2,4-Disubstituted Thiophenes and Vinyl Sulfone-Tethered 1,2,3-NH-Triazoles	Asian J. Org. Chem.,	2024, e202400211		2.70 H5: 55	
27	Kumari, H. K., Kumar, J. J., Sharadha, N., Krishna, G. R. and Reddy, R. J.*	Visible-Light-Induced Radical Sulfonylative Cyclization Cascade of 1,6-Enynol Derivatives with Sulfinic Acids: A Sustainable Approach for the Synthesis of 2,3-Disubstituted Benzoheteroles, e202400227	ChemSusChem,	2024,10,		8.40 H5: 187	

28	Reddy, R. J.* Kumar, J. J. and Kumari, H. K.	Recent trends in the synthesis and applications of β -iodovinyl sulfones: A decade progress (Review article).	Org. Biomol. Chem.	2024, 22, 24 2509		3.10 H5:130	
29	Sanjeev Rachuru, Raju Manthena, K Ankamma, DA Padmavathi, V Jagannadham	Application of Hammett and Taft Equations Together on the Deprotonation Equilibriums of Isoxazolium Cations: A One Hour Graduate Classroom Teaching	World Journal of Chemical Education	2024/1/4 Vol. 12	ISSN (Print): 237 5-665 (Online): 2 375-1657	0.43	DOI: 10.12691/wjce-12-1-1
30	M. Swathi, Dasari Ayodhya, Shivaraj	Synthesis, characterization, investigation of DNA interactions and biological evaluation of Co(II), Ni(II), Cu(II) and Zn(II) complexes with newly synthesized 2-methoxy 5-trifluoromethyl benzenamine Schiff base	J.Flourec. accepted	2024			
31	M. Swathi, DasariAyodhya, Shivaraj	Design, structural characterization, DNA interaction studies, antibacterial, antioxidant, and cytotoxicity studies of Co(II), Ni(II), Cu(II), Zn(II) complexes 2-methoxy 5-trifluoromethyl benzenamine Schiff base	Res. Chem..	7 (2024) 101231		3.8	
32	N. Jyothi, Sreenu Daravath, M. Swathi, K Jagadeshbabu, NirmalaGanji, Shivaraj	Synthesis, geometry optimization and non-isothermal kinetic parameters ofcopper(II), nickel(II) and cobalt(II) complexes of 5-(trifluoromethyl)-2-methoxybenzenamine: DNA binding, cytotoxicity, cantioxidant and antimicrobial activity	Journal of Molecular Structure	1295 (2024) 136529	0022-2860	3.196	

Department of Chemistry: List of Publications 2022-2023

Sl. No	Name of the author/s	Title of paper	Name of journal	Year of publication Volumes. Issue	ISSN number	Impact factor of the journal	Link to the recognition in UGC enlistment of the Journal
1	K. Masula , P. Sreedhar, P. V. Kumar, Y. Bhongiri, S. Pola, Manohar Basude*	Synthesis and characterization of NiO–Bi ₂ O ₃ nanocomposite material for effective photodegradation of the dyes and agricultural soil pollutants	Materials Science in Semiconductor Processing	160 (2023) 107432	1369-8001	4.10	https://doi.org/10.1016/j.mssp.2023.107432
2	R. Gade, Manohar Basude, N. B. Simhachalam, Rama Devi V, S. Pola and P.Chetti	Synthesis of titanates for photomineralization of industrial wastewater and organic pollutants	Environ. Sci.: Water Res. Technol.,	8 (2022) 3065	2053-1419	5.00	DOI: 10.1039/d2ew00469k
	Shankaraiah Ambala, Vishnu Thumma, Veerabhadraiah Mallikanti, Shalini Aitha, Raghavender Matta, Jalapathi Pochampally	Design, Synthesis, and Cytotoxicity of Some New Benzimidazole-Piperazine Conjugate Analogues Against Human Breast Adenocarcinoma	ChemistrySelect	2023, 8(31), e202302393			DOI: 10.1002/slct.202302393

3	Dharmasothu Veeranna, Lakavath Ramdas, Guguloth Ravi, Sushmitha Bujji, Vishnu Thumma, and Jadav Ramchander	Synthesis of 1,2,3-Triazole Tethered Indole Derivatives: Evaluation of Anticancer Activity and Molecular Docking Studies	Chemistry Select	2022	2365-6549	2.307	e WWW under https://doi.org/10.1002/slct.202201758
4	Dharmasothu Veeranna1, Lakavath Ramdas1, Guguloth Ravi1, Vishnu Thumma2, Jadhav Ramchander	Synthesis, Evaluation, And Molecular Docking Studies of Novel 1, 2, 3-Triazole Tethered Indole Hybrid Derivatives as Potent Anti-Cancer Agent	Heterocyclic Letters	-January 2023	2230 - 9632	0	http://heteroletters.org
5	Goli J. Rupasree, Rambabu Sirgamalla, Sakram. B., Yadagiri B. and J. Ramchander*	Synthesis And Biological Evaluation Of 8-Hydroxyquinoline Incorporated Schiff Bases as Antimicrobial Agents	World Journal of Pharmacy and Pharmaceutical Sciences	2023			
6	J. Sowmya, B. Padma and P. Leelavathi	Quinoline and 2-nitroimino-1, 3-diazacycloalkane hybrids: Design, synthesis and insecticidal activity	J Indian Chem. Soc	2022 99 (1)	100279	0.25	
7	V. Anjaneyulu, V. Krishnaiah, K. Vermeire and P. Leelavathi	Microwave-assisted one-pot multicomponent synthesis of 2-(-4-oxo-2-(1-(2-oxo-2h-chromen-3-yl) ethylidene) hydrazono)thiazolidin-5-yl) acetic acid derivatives and their antiviral activity	J Heterocyclic Chem.	2022, 1, 1-12		2.1	
8	B.Shekhar, K.Rajeshwari, B.Jayasree, P.V.Anantha Lakshmi	Novel metformin complexes: Geometry optimization, non-isothermal kinetic parameters, DNA binding, on-off light switching and docking studies	Applied organometallic Chemistry	2022 36(4)	0268-2605	4.105	https://doi.org/10.1002/aoc.6601
9	K.Venkateswarlu, A.Rambabu, D.Shiva Shankar, P.V.Anantha Lakshmi,	A Treatise on Furan Cored Schiff Base Cu(II), Ni(II) and Co(III) Complexes Accentuating Their Biological Efficacy: Synthesis, Thermal and Spectroscopic Characterization, DNA Interactions,	Chemistry and biodiversity	2022 19(3)	1612-1880	2.745	https://doi.org/10.1002/cbdv.202100686

	Shivaraj	Antioxidant and Antibacterial Activity Studies					
10	P. Sailaja Kumari1 · D. Ravi Kumar2 · G. Vijaya Charan1 · Someswar Rao Sagurthi	Structural, photocatalytic, and anticancer activity Ni-substituted Cu nanochromites synthesized by citrate gel auto-combustion method	Chemical Papers	2023 77,Pages 4727-4745		2.2	"https://doi.org/10.1007/s11696-023-02798-0
11	D. Ravi Kumar, K. Anuradha Reddy, T. AshokGoud, Nakira boina Venkatesh , G. Vijaya Charan , Syed Ismail Ahmad, Ch. Abraham Lincoln	Structural and dielectric properties of $\text{Sr}_{1-x}\text{Ce}_x\text{Mg}_y\text{Fe}_{2-y}\text{O}_4$ nano ferrites synthesized by citrate gel auto combustion method	Materials today	2023, 92, Pages 703-710		2.59	https://doi.org/10.1016/j.matpr.2023.04.186
12	Kotesch Kumar Mandari, Hari Padmasri Aytam, Shirisha Varimalla, Vijay Kumar Velisoju, Venugopal Akula	Evaluation of in-situ formed $\text{La}_2\text{O}_3\text{-TiO}_2\text{-La}_2\text{O}_2\text{CO}_3$ nanocomposite photocatalyst for H_2 production	International Journal of Hydrogen Energy	47 (2022) 17214-17223	0360-3199	7.139	
13	Manasa Kandula, Naresh Gutta, Kalpana Manda, Vijayanand Perupogu, Hari Padmasri Aytam, Venugopal Akula.	Rice husk ash derived SiO_2 for template free synthesis of H-ZSM-5 support for Ni catalyst: Investigation on non-oxidative CH_4 cracking for clean H_2 production.	Catalysis Surveys from Asia	36(2) 2022	1571-1013	2.964	
14	Balakrishna Matkala, Sasikumar Boggala , Yadaiah Salwadi, Hari Padmasri Aytam	Sulphonated Ti-MCM41: A Potential Catalyst for the Transformation of Bio-Glycerol to Solketal	IOSR Journal of Applied Chemistry (IOSR-JAC)	1 (2023) 01-10	e-ISSN: 2278-5736		
15	Reema Sarkari, Kotesch Kumar Mandari , Sudhakar Medak , Kishore Ramineni, Hari Padmasri Aytam and Venugopal Akula	Synthesis of 2-Methylpyrazine Using Crude Glycerol over Zn-Cr-O Catalyst: A Value Addition Process for the Utilization of Biodiesel By-Product	Catalysts	2023, 13, 318	2073-4344	3.9	
16	Komal N. Patil, P. Manikanta, Rohith Rangnath Nikam,	Effect of precipitating agents on activity of co-precipitated Cu–MgO catalysts towards	Results in Engineering	17 (2023) 100851	2590-1230	4.059	

	Puneethkumar M. Srinivasappa, Arvind H. Jadhav, Hari Padmasri Aytam, Kamaraju Seetha Rama Rao, Bhari Mallanna Nagaraja	selective furfural hydrogenation and cyclohexanol dehydrogenation reactions					
17	Manasa Kandula, Naresh Gutta, Kalpana Manda, Vijayanand Perupogu, Hari Padmasri Aytam, Venugopal Akula	Rice husk ash derived SiO ₂ for template free synthesis of H-ZSM-5 support for Ni catalyst: Investigation on non-oxidative CH ₄ cracking for clean H ₂ production.	Catalysis Surveys from Asia	36(2) 2022	1571-1013	2.964	
18	ST Leena Carlin, S. Sreekanth, DA Padmavathi and B. Sireesha	Equilibrium, DNA binding, docking, and antimicrobial studies of Ni(II) and Cu(II) chelates with 1-(4'-nitrobenzoyl)-3-thiosemicarbazide.	Applied Organometallic Chemistry	36(12), Dec, 2022	0268-2605	4.072	https://doi.org/10.1002/aoc.6877
19	A. Fatima , S. S. Kanth , and B. Sireesha	Computational, Equilibrium, Structural, and Biological Study of the Novel 1-Formyl-4-phenyl-3-semicarbazide and Its Complexes	Russian Journal of General Chemistry	92(12) Dec, 2022	1070-3632	0.779	http://doi.org/10.1134/S1070363222120210
20	Alishala Ashok, Boda Sakram;	Copper (II) Acetate Catalysed Synthesis Of Novel 6-(2-Chloro-4-Fluorophenyl)-9-Phenyl-[1,2,4] Triazolo[4,3-A] [1,8]Naphthyridine Derivatives Under Microwave Irradiation And Their Biological And Molecular Docking Studies.	Heterocyclic Letters,	VI.1 No.3May - July 2022	ISSN : (print) 2231-3087		
21	Alishala Ashok, Banoth Sonyanaik , Boda Sakram	Green synthesis of substituted 1,8-naphthyridin-thiazole scaffolds, molecular docking studies and biological evaluation. 2023	Research on Chemical Intermediates,	Jan, 2023		3.3	doi: org/10.1007/s11164-022-04951-y

22	Rambabu Sirgamalla, Kurumanna Adem, Vishnu Thumma, J. Devaram, V. Prathibha, D. Suresh, Sakram Boda	Palladium (II)-catalyzed C–H bond functionalization of aromatic and heteroaromatic esters with acrylates under ligand-free conditions and their Anti-microbial evaluation.	Chemical Data Collections	Feb 2023	44 (2023) 101006.	0.219	doi.org/10.1016/j.cdc.2023.101006
23	Kurumanna Adem, Sakram Boda, Rambabu Sirgamalla & Ramesh Macha	Synthesis, antimicrobial activities of novel 3-chloro-4-(2,4-difluorophenyl)-1-(3-aryl-1,8-naphthyridin-2-yl)azetidin-2-ones and 2-(2,4-difluorophenyl)-3-(3-aryl-1,8-naphthyridin-2-yl)thiazolidin-4-ones.	Synthetic communications	2022	ISSN: 0039-7911 Online ISSN: 1532-2432	2.17	https://doi.org/10.1080/00397911.2022.2045321
24	Ravi kumar Shekunti, Swathi Thangallipalli, Chiranjeevi Dhonthulachitty, Sridhar Reddy Kothakapu, Padmavathi Devarakonda Annapurna Padmavathi, Chandra Kiran Neella	N-Benzoyl-4-Dimethylaminopyridinium Chloride: A Lewis Base Adduct For Efficient Poly And Monobenzoylation,	Chemistry Select	20227, e202202636 (1-4)	Online ISSN: 2365-6549	2.307	DOI: 10.1002/slco.202636
25	Leena Carlin Sandhepogu Thomas, Sree Kanth Sivan, Annapurna Padmavathi Devarakonda and Sireesha Berley	Equilibrium, DNA binding, docking and antimicrobial studies of Ni(II) and Cu(II) chelates with 1-(4'-nitrobenzoyl)-3-thiosemicarbazide.	Applied Organometallic Chemistry	2022	02682605, 10990739	4.072	DOI: 10.1002/aoc.6877
26	R. Sanjeev, R. Ravi, D. A. Padmavathi and V. Jagannadham,	pKaH of the Two Conjugate Acids (CH_2N_5^+) and (HN_6^+) of Two Hypothetical Molecules the Pentazine (CHN_5) and the Hexazine (N_6) of Azabenzene Series: A Chemical Education Perspective.	World Journal of Chemical Education	2022 Vol. 10, No. 3, 105-109	ISSN (Print): 2375-1665 ISSN (Online): 2375-1657	0.16	DOI: 10.12691/WJCE-10-3-3.
27	K. Mahesh, D. A. Padmavathi	Coumarinyl (thienyl) thiazole molecules as fluorescent photo switches	Asian Journal of Chemistry	202234(9): 2281-2287	0970-7077	0.158	

28	Sanjeev Rachuru, Pandiri Sreedhar, DA Padmavathi, V Jagannadham	Common Dimer-Responsible for the Trends in pKaHs of Both Pyridazinium Cations and Di-cations: An Educational Perspective	World Journal of Chemical Education	2023 Vol. 11, No. 1, 1-3	ISSN (Print): 2375-1665 ISSN (Online): 2375-1657	0.16	Vol. 11, No. 1, 4-6 DOI:10.12691/wjce-11-1-2.
29	Sanjeev Rachuru, Devarakonda A Padmavathi, V Jagannadham	Why Cyclohexatriene (C ₆ H ₆ , pKa= 43) is Less Acidic than Cyclopentadiene (C ₅ H ₆ , pKa= 15) and Cycloheptatriene (C ₇ H ₈ , pKa= 36): A Freshmen Chemical Education Undergraduate Exercise	World Journal of Chemical Education	2023 Vol. 11, No. 1,4-6	ISSN (Print): 2375-1665 ISSN (Online): 2375-1657	0.16	DOI:10.12691/wjce-11-1-1
30	Sridhar Reddy Kothakapu & D. S. Ramakrishna Ravi Kumar Shekunti, Annapurna Padmavathi Devarakonda	Efficient green synthesis of a potential novel nosylation reagent and its DFT study	Journal Phosphorus, Sulfur, and Silicon and the related Elements	2023, 2191960	Taylor and Francis	1.052	https://doi.org/10.1080/10426507.2023.2191960
31	Goli J. Rupasree, Rambabu Sirgamalla, Sakram. B., Yadagiri B. J. Ramchander	Synthesis and biological evaluation of 8-hydroxyquinoline incorporated schiffs bases as antimicrobial agents.	WJPPS	12, 4, 1423-1436	2278 – 4357		www.wjpps.com
32	Sundarpal Vudutha, Shashikanth Boddu, Rajitha Nampally, Yadagiri Bhongiri*	Synthesis, Spectroscopic Characterization, DNA binding and DFT/PCM calculations of New Hydrogen-bonded Charge Transfer complex between 4-Dimethylaminopyridine and Chloranilic acid.	Result in Chemistry	5, 100694 2023		2.3	https://doi.org/10.1016/j.rechem.2022.100694
33	Ramulu Dhanavath, Ravinder Dharavath, Devender Kothula, Sampath Bitla, Gugulothu Yaku, Saritha Birdaragu, P. Muralidhar Reddy, Krishnam Raju Atcha	Synthesis and Biological Evaluation of Novel 2-Arylquinoline-3-Fused Thiazolo[2,3c]1,2,4-Triazole Heterocycles as Potential Antiproliferative and Antimicrobial Agents	Journal of Heterocyclic Chemistry	2022	1943-5193	2.193	DOI: 10.1002/jhet.4460

34	A. Sanjeev, N. N. Reddy, S. Bhaskar, R. Rohini, A. K. Raju, B. V. Kumar, A. Huc, and P. M. Reddy	Synthesis and Anticancer Activity of 3,4,5-Trimethoxycinnamamide-Tethered 1,2,3-Triazole Derivatives	Russian Journal of Organic Chemistry	2022	1070-4280	0.72	DOI: 10.1134/S1070428022010122
35	G. Swetha, Revathy Sundara Moorthy, K. Premalatha, M. Kavitha and P. Muralidhar Reddy	Overview of the Effect of Covid-19 Pandemic on Forensic Pathology	High Technology Letters	2022	1006-6748	2.7	DOI: https://doi.org/10.37896/HTL28.05/5810
36	A. Sanjeev, Narmada Vallakeerthi, N. Naresh Reddy, S. Bhaskar and P. Muralidhar Reddy	Stability Indicating Method Development and Validation, Stress Degradation Studies for Dacarbazine By Using RP-HPLC	NeuroQuantology	2022	1303-5150	1.576	doi: 10.14704/nq.2022.20.9.NQ44735
37	Sailam Sri Gogula, Ramakrishna Konakalla, Kamalaker Reddy Kamireddy, P. Muralidar Reddy, Ch. Abraham Lincoln and B.V. Subba Reddy	Diisobutylaluminium hydride mediated efficient synthesis of Morita–Baylis–Hilman adducts through α -functionalization of alkyl Propiolates	Journal of Heterocyclic Chemistry	2022	1943-5193	2.193	DOI: 10.1002/jhet.4602
38	K. Laxma Reddy, P. Muralidhar Reddy* and M. Kavitha	Nanoparticle Drug Delivery System for the Treatment of Neurological Disorder	Neuro Quantology	2022	eISSN: 1303-5150	1.576	doi:10.14704/nq.2022.20.9.NQ44736

39	K. Manjunatha, Ming-Kang Ho, Tsu-En Hsu, Hsin-Hao Chiu, Tai-Yue Li, B. Vijaya Kumar, P. Muralidhar Reddy, Ting San Chan, Yu-Hao Wu, Bi-Hsuan Lin, Artashes Karmenyan, Chia-Liang Cheng, Ashish Chhaganlal Gandhi and Sheng Yun Wu	Precise Sn-Doping Modulation for Optimizing CdWO ₄ Nanorod Photoluminescence	Int. J. Mol. Sci.	2022	1422-0067	6.208	https://doi.org/10.3390/ijms232315123
40	S. Mishra, P. Supraja, D. Haranath, R. R. Kumar, Someshwar Pola,	Effect of surface and contact points modification on the output performance of triboelectric nanogenerator	Nano Energy	2022	107964		
41	K. Manda, R. Kore, M. Ambapuram, P. Chetty, S. Roy, V. Jadhav, S. N. Babu, R. Gundla, R. Mitty, Someshwar pola	Benzodithiophene-Based, Donor–Acceptor– π –Donor–Acceptor Systems as Hole Transporting Materials for Efficient Perovskite Solar Cells,	ChemPhotoChem	2022	e202200062		
42	Suresh Kilaru, Ramesh Gade, Yadagiri bhongiri, Anuj Tripathi, Prabhakar Chetti, Someshwar Pola	Organic materials based on hetero polycyclic aromatic hydrocarbons for organic thin-film transistor applications,	Materials Science in Semiconductor Processing	2022	106730		
43	Mahesh Subburu, Ramesh Gade, Prabhakar Chetti, Someshwar Pola	Photooxidation of 2,20- (Ethyne-1,2-diyl)dianilines: An Enhanced Photocatalytic Properties of New Salophen-Based Zn(II) Complexes	Photochem	2022			
44	K Masula, Y Bhongiri, GR Rao, PV Kumar, Someshwar Pola, M Basude	Evolution of photocatalytic activity of CeO ₂ –Bi ₂ O ₃ composite material for wastewater degradation under visible-light irradiation, Optical Materials	Optical Materials	2022	112201		

45	S. K. Nayak, R. Kore, Md. S. Ahmed, P. Verma, R. Vallavoju, D. Banerjee, Someshwar Pola, V. R. Soma, P. Chetti, S. S. K. Raavi	Femtosecond nonlinear optical properties of polycyclic aromatic hydrocarbon-based Benzo[e]pyrene derivatives	Optical Materials	137 (2023) 113603	0925-3467	3.90	doi.org/10.1016/j.optmat.2022.112201
46	A. Meenakshamma, P. M. Mounika, M. Gurulakshmi, K. Susmitha, D. Haranath, L. Goswami, G. Gupta, Pola Someshwar, M. Raghavender	Voltage- and Power-Conversion Performance of Bifunctional ZrO ₂ : Er ³⁺ / Yb ³⁺ Assisted and Co-sensitized Dye Sensitized Solar Cells for Internet of Things Applications	ChemPhotoChem	2023, e202200302 (1 of 10)	2367-0932	3.70	
47	R. Vallavoju, R. Kore, P. Radhika, M. Subburu, R. Gade, M. Basude, Someshwar Pola, P. Chetti	Enhanced piezo-photocatalytic properties of new salophen based Ti (IV) complexes	Inorganic Chemistry Communications	148 (2023) 110272	1387-7003	3.80	https://doi.org/10.1016/j.inoch.2022.110272
48	Reddy, R. J.* Waheed, Md., Kumari, A. H., and Krishna, G. R.	Interrupted CuAAC-Thiolation for the Construction of 1,2,3-Triazole-Fused Eight-Membered Hetero-cycles from O-/N-Propargyl derived Benzyl Thiosulfonates with Organic Azides	Adv. Synth. Catal. 2022, 364, 319-325	2022/364		5.981	
49	Reddy, R. J.* Shankar, A., Kumar, J. J. Sharadha, N., and Krishna, G. R.	Diethyl phosphite-mediated switchable synthesis of bis(imidazoheterocycles) derived disulfanes and sulfanes using imidazoheterocycles and octasulfur	New. J. Chem. 2022, 46, 4784-4791	2022/46		3.925	
50	Reddy, R. J.* Kumari, A. H., Sharadha, N. and Krishna, G. R.	Solvent-Dependent Mono- and Bis-Thiolation of (E)- α -Iodovinyl Sulfones with Thiols for Flexible Synthesis of 1,2-Thiosulfonylalkenes and 1,2-Dithioalkenes	J. Org. Chem. 2022, 87, 3934-3951.	2022/87		4.198	
51	Reddy, R. J.* Sharadha, N. Kumari, A. H.	Base-mediated [3+2]-cycloannulation strategy for the synthesis of pyrazolo[1,5-a]pyridine derivatives using (E)- β -iodovinyl sulfones	Org. Biomol. Chem., 2022,20, 4331-4337	2022/20		3.890	

52	Reddy, R. J.* Kumari, H. K. and Krishna, G. R.	Unified Radical Sulfonylative-Annulation of 1,6-Enynols with Sodium Sulfinates: A Modular Synthesis of 2,3-Disubstituted Benzoheteroles	<u>J. Org. Chem.</u>	2023, 88, 1635–1648	1520-6904	3.67	
53	Reddy, R. J.* Kumar, J. J. and Kumari, H. K.	Mn(OAc) ₃ -Mediated Unexpected Cycloannulative-Sulfonyl Migration Cascade using (E)- β -Iodovinyl Sulfones and ortho-Alkynylphenols: An Expedient Synthesis of Chromene-derived Vinyl Sulfones	<u>Org. Lett.</u>	2023, 25, 2207–2212	1523-7060	5.36	
54	Reddy, R. J.* Sharadha, N. and Krishna, G. R.	Pd(II)-Catalyzed Tandem Cycloannulative-Alkenylation of ortho-Alkynyl-Phenols/Anilines with (E)- β -Iodovinyl Sulfones: A Direct Strategy to Construct 3-(Vinyl Sulfonyl)-Benzoheterole Derivatives	<u>J. Org. Chem.</u>	2023, 88, 8889-8903.	1520-6904	3.67	
55	Ravinder Reddy Danda, P. Muralidhar Reddy, A. Krishnam Raju, V. Naveen Reddy, K. Santosh Kumar and B. Vijaya Kumar	Acetic Acid-Water Mediated Efficient One-Pot Synthesis of Functionalized Isoxazolyl Amino Chromeno[4,3-b]pyridine Derivatives,	Asian Journal of Chemistry	2023	0975-427X	0.16	doi.org/10.14233/ajchem.2023.26926
56	B. Ashok, K. Ramesh, D. Madhu, T. Nagesh, B. Vijaya Kumar, G. Upender,	Characterization and photocatalysis of visible-light-driven Z-scheme Bi ₂ WO ₆ /Bi ₂ MoO ₆ heterojunction for Rhodamine B degradation,	Inorg. Chem.Comm.	2023	1387-7003.	3.428	doi.org/10.1016/j.inoche.2023.110495
57	N Umapathi, B Shankar, M Raghavender, T Vishnu, P Jalapathi*	Some Novel [6-(Isoxazol-5-ylmethoxy)-3- methylbenzofuran-2-yl] phenylmethanone Derivatives, Their Antimicrobial Activity, and Molecular Docking Studies on COVID-19	Russian Journal of General Chemistry [Springer Nature]	92(2)2022-	1070-3632	0.779	

58	M.Vishnu Vardhan, M.Pradeep, T. Gangadhar	Easy and Efficient Microwave-Assisted Synthesis of 1,2,3-Triazolyl-Tethered 2-Pyridinylbenzimidiazoles and their Antimicrobial Activity.	Russian Journal of Organic Chemistry	2022, Volume. 58	1070-4280	0.862	https://doi.org/10.1134/S1070428022040182
59	M.Pradeep, M.Vishnu Vardhan, T. Gangadhar	An efficient microwave assisted synthesis of (E)-1-(2,4-Bis((1-Aryl-1H-1,2,3-Triazol-4-YL) Methoxy) Phenyl)-3-(2-(Pyrrolidin-1-YL) Quinolin-3-YL) Prop-2-En-1-Ones and their antimicrobial activity	Chemical Data Collections	2023 Volume.46	2405-8300	0.217	https://doi.org/10.1016/j.cdc.2023.101020
60	M. Sateesh, S. Asha, A. Ravi, P. Saha, A. Vinod Kumar, B. Sathyanarayana, Muga Vithal , and S. K. Das.	<i>Electrocatalytic Hydrogen Evolution by a Uranium(VI) Polyoxometalate: an Environmental Toxin for Sustainable Energy Generation</i>	Inorg. Chem.	2023, 62,	19664–19676.	4.6	https://doi.org/10.1021/acs.inorgchem.3c03018
61	Gaddameedi Hima Bindu, Kadari Ramaswamy, Puppala Veerasomaiah, Muga Vithal	<i>Synthesis, characterization and photocatalytic studies of visible light responsive $K_3MTe_3O_{12}$ ($M = Cr, Fe$ and Ga)</i>	Chemical papers	77 (2023)	7603-7614.	2.2	
62	Pallati Srilekha, Kammara Vaishnavi, Gaddameedi Hima Bindu, Amarapuri Trinadh & M. Vithal	<i>Synthesis, characterization and photocatalytic studies of Ag^+, Cu^{2+} and Sn^{2+} doped layered $Li_2Cd(PO_3)_4$</i>	Inorganic and Nano-Metal Chemistry	53 (2023)		1.7	10.1080/24701556.2023.2213226
63	Rani Angineni, Perala Venkataswamy, Naveen Kumar Veldurthi, Kadari Ramaswamy, Mannepalli Sudheera, and Muga Vithal	<i>Photocatalytic degradation studies of carbon and sulfur-doped $K_2Ta_2O_6$</i>	J Mater Sci: Mater Electron	(2023) 34:633		2.801	https://doi.org/10.1007/s10854-023-09973-9

64	Gaddameedi Hima Bindu, Kadari Ramaswamy, Amarapuri Trinadh, Puppala Veerasomaiah, and Muga Vithal	<i>Fabrication of Ag/AgBr/LaAl_{0.5}Cr_{0.5}O₃ composite with enhanced photocatalytic performance for the degradation of methylene blue and 4-chlorophenol</i>	J. Australian Ceramic society	2023		1.9	https://doi.org/10.1007/s41779-023-00842-6
65	<i>Synthesis and photoluminescence studies of Na₃23xLn_xSbO (PO₄)₂ (Ln = Eu, Sm and Tb, and 0 ≤ x ≤ 0.1 mol%) phosphors for white light emitting diodes</i>	Amarapuri Trinadh, Koneti Srikanth, Kunja Laxminarayana, Pallati Srilekha, Muga Vithal , and Mudavat Srinivas	J Mater Sci: Mater Electron (2023) 34:83			2.801	https://doi.org/10.1007/s10854-022-09463-4
66	Dongamanti Ashok, Gugulothu Thara, Bhukya Kiran Kumar, Gundu Srinivas, Dharavath Ravinder, Thumma Vishnu, Madderla Sarasija and Bujji Sushmitha	Microwave-assisted synthesis, molecular docking studies of 1,2,3-triazole-based carbazole derivatives as antimicrobial, antioxidant and anticancer agents	RSC Adv. ,	2023, 13 , 25-40	2046-2069	3.9	https://doi.org/10.1039/D2RA05960F
67	Ashok D, Thara G, Dharavath R, Kirankumar B, Sarasija M, Bhima B	<i>Microwave assisted synthesis of flavonoid based 1,2,3-triazole, isoxazoles towards evaluation of their antibacterial, antioxidant and anticancer activities</i>	Russian Journal of General Chemistry	2022, 92 (4) 718-724	1070-3632	0.9	http://dx.doi.org/10.1134/S1070363222040132
68	Dongamanti Ashok , Makthal Ram Reddy, Gugulothu Thara, Ravinder Dharavath, Katta Ramakrishna, Nalaparaju Nagaraju, Srinivas Gundu, Madderla Sarasija	<i>A new library of 1,2,3-triazole based Benzofuran scaffolds: Synthesis and Biological Evaluation as Potential Antimicrobial Agents</i>	Journal of Heterocyclic Chemistry	2022, 59(8) 1376-1384	1943-5193	2.4	https://doi.org/10.1002/jhet.4477

69	Parijatha Bandigari , Ashok Dongamanti,	<i>Determination of Anti-Dandruff and Hair Growth Promoting Activity of combined coconut oil extract of Marking Nut</i>	YMER,	2022, 21, 92-99	0044-0477		10.37896/YMER21.02/09
70	Madhuri, E. V. L, Sarasija M, Ashok D,	<i>Beta-Cyclodextrin-catalyzed synthesis, characterization, and bacterial evaluation of spirochromanone-linked 1,2,3-triazole and spirochromanone conjugates containing bis-1,2,3-triazoles</i>	Journal of Heterocyclic Chemistry	2022, 59(12) 2098-2107	1943-5193	2.4	https://doi.org/10.1002/jhet.4545
71	Prathima K , D. Ashok, M. Sarasija, Ravinder Dharavath, Umesh Kumar Utkoor, V. V. S. Lakshmi, Sai Krishna Ganji , Prabhakar Sripadi	<i>Synthesis of spiro chromanone sandwiched 15,16,18 membered (Z)-dioxo cycloalkenes by ring closing metathesis and homodimers of 8-allyl-7- ((6-bromoalkyl) oxy) spirochroman-4-ones by cross metathesis</i>	Synthetic Communications	2022, 52 (5), 745-754	1532-2432		https://doi.org/10.1080/00397911.2022.2050757
72	S. Anil kumar, M. Sarasija, Ravinder Dharavath, Nalaparaju Nagaraju, Katta Ramakrishna, Srinivas Gundu, Vishnu Thumma, B. Prashanth, D. Ashok	<i>Microwave Assisted Synthesis of N-Substituted Acridine-1,8-dione Derivatives: Evaluation of Antimicrobial Activity</i>	Journal of Heterocyclic Chemistry	2022, 59 (7), 1180-1190	1943-5193	2.4	https://doi.org/10.1002/jhet.4458
73	Ravinder Dharavath, M. Sarasija, M. Ram Reddy, K. Naga Prathima, N. Nagarju, K. Ramakrishna, D.Ashok ,	<i>Microwave-Assisted Synthesis and Evaluation of their Antiproliferative, Antimicrobial, activities and DNA Binding studies of (3-Methyl-7H-furo[2,3-f]chromen-2-yl)(aryl)methanones,</i>	Medicinal Chemistry Research	2022, 31(6), 993-1002	1054-2523	2.6	https://doi.org/10.1007/s00044-022-02888-w
74	Anil Kumar Sabhavath, Sarasija Madderla, Ravinder Dharavath, Vishnu Thumma, Gugulothu Thara, Srinivas Gundu, Ashok Dongamanti	<i>Synthesis of 1,2,3-Triazole-Containing 2,3-Dihydrofuran Derivatives, Evaluation of Anticancer Activity and Molecular Docking Studies</i>	Chemistry Select	2022, 7(48)	2365-6549	1.9	https://doi.org/10.1002/slct.202203847

75	M. Swathi, D. Shiva Shankar, S. Daravath, N. Ganji, P.V.AnanthaLakshmi, Shivaraj	Computational studies, Cytotoxicity, DNA interactions of bioactive novel 2-methoxy 5-trifluoromethylbenzenamine Schiff base metal complexes,.	Inorganic Chemistry Communications	153(2023) 110826			
76	K. JagadeshBabu, SreenuDaravath , M. Swathi , DasariAyodhya, Shivaraj	Synthesis, anticancer, antibacterial, antifungal, DNA interactions, ADMET, molecular docking, and antioxidant evaluation of novel Schiff base andtheir Co(II), Ni(II) and Cu(II) complexes	Res. Chem..	6(2023)10 1121			



List of Publications of Department of Chemistry 2021-2022

Sl.No	Name of the author/s	Title of paper	Name of journal	Year of publication Volumes. Issuee	ISSN number	Impact factor of the journal	Link to the recognition in UGC enlistment of the Journal
Sl.No	Rekha, K. C., Yaku, G., & Kumar, U. U.	Characterisation, antibacterial and anticancer investigation of green synthesized silver nanoparticles utilizing gymnema sylverstre leaf broth (Podapathri) by microwave light strategy	<i>Rasayan Journal of Chemistry</i>	2021, 14(3).	2031–2039	1.5	Yes
1	Vijay Shekar Pulusu, K. C. Rajanna *, U. Umesh Kumar, M. Anil Kumar, Yaku Guguloth, Yadagiri Pulusu	Ultrasonically Assisted Thiocyanation of Aromatic and Heteroaromatic Compounds Using Silica-Supported Bronsted Acids (HClO ₄ -SiO ₂ and KHSO ₄ -SiO ₂) as Reusable Catalysts.	<i>Journal o Advances inChemical Sciences</i>	9(3)	226-235.	0	No
2	Prashanthi Malyala, Yaku,Gugulothu, Kasigari Chandra Rekha, Umesh Kumar Utkoor	Validated UV Spectrophotometric Methods for the Simultaneous Estimation of Omeprazole and Domperidone.	<i>Indian Journal of Advances in Chemical Sciences</i>	9(3)	77-82.	0	No
3	Savitha Rasam1 Divya Komirishetti2 Sabitha G2 Yaku gugulothu1 Umesh Kumar Utkoor1*, Yadagiri Swamy.P1	Synthesis and biological activity of novel-4H-benzo[e][1,3]oxazin-4one linked [1,2,3]-triazole derivatives	<i>International journal of science and research</i>	15(1)	06-12.	0	Yes

4	Vani Vangari, Yaku Gugulothu, Areef Mohammed, Umesh Kumar U*, Panasa Reddy A.	Microwave-assisted green synthesis of silver nanoparticles using passion fruit peel extract for catalytic reduction of organic dyes.	<i>Journal of advanced scientific research</i>	12 (4)		1	Yes
5	Kasigari Chandra Rekha, Gugulothu Yaku, M. Prashanthi, Umesh Kumar Utkoor*	Characterization, and DNA-binding Studies of Synthesized Gold Nanoparticles using Orange (Citrus sinensis) Peels Extract.	<i>Indian Journal of Advances in Chemical Sciences</i>	14(3)	2031-2039	0	No
6	Gugulothu, K., Ramulu Meesa, S., Kumar Utkoor, U., Rajasekhara Reddy, S., & Shiva Kumar, K.	Pd/C and TFA-promoted One-pot, Two- step Cascade Reaction: An Effective Synthesis of Oxepines.	<i>Asian Journal of Organic Chemistry</i>	10(11)	3045–3049	3	Yes
7	Vijay Shekar Pulusu, K. C. Rajanna*, U.Umesh Kumar, M. Anil Kumar, M. Satish Kumar, Hemanth Yelike, Yaku Gugulothu, Yadagiri Pulusu	Silica supported acids (SiO ₂ -HClO ₄ , SiO ₂ -KHSO ₄) as eco-friendly reusable catalysts for bromination of aromatic and heteroaromatic compounds using KBr under solvothermal and solvent-free conditions.	<i>Silicone Journal of Chemistry</i>				
8	Prathima, K., Ashok, D., Sarasija, M., Dharavath, R., Utkoor, U. K., Lakshmi, V. V. S., Ganji, S. K., & Sripadi, P.	Synthesis of spiro chromanone sandwiched 15,16,18 membered (Z)- dioxo cycloalkenes by ring closing metathesis and homodimers of 8- allyl-7-((6-bromoalkyl) oxy) spirochroman-4-ones by cross metathesis.	<i>Synthetic Communicatio ns</i>	52(5)			
9	Utkoor, U. K., Malyala, P., Gugulothu, Y., & Kasigari, C. R	Validated uv-spectrophotometric methods for the simultaneous estimation of dextromethorphan and cetirizine	<i>Journal of Advanced Scientific Research</i>	13(03)			

10	Dharmasothu Veeranna,[a] Lakavath Ramdas,[a] Guguloth Ravi,[a] Sushmitha Bujji,[b] Vishnu Thumma,[c] and Jadav Ramchander	Synthesis of 1,2,3-Triazole Tethered Indole Derivatives: Evaluation of Anticancer Activity and Molecular Docking Studies	<i>Chemistry Select</i>	2022	2365-6549	2.307	https://doi.org/10.1002/ slct.2022017 58
11	J.Sowmya, B. Padma and P. Leelavathi	Quinoline and 2-nitroimino-1, 3- diazacycloalkane hybrids: Design, synthesis and insecticidal activity	<i>J Indian Chem. Soc</i>	2022 99 (1)	100279	0.25	
12	V. Anjaneyulu, V. Krishnaiah, K. Vermeire and P. Leelavathi	Microwave-assisted one-pot multicomponent synthesis of 2-(-4-oxo-2- (1-(2-oxo-2h-chromen-3-yl) ethylidene) hydrazono)thiazolidin-5-yl) acetic acid derivatives and their antiviral activity	<i>J Heterocyclic Chem.</i>	2022, 1, 1-12		2.1	
13	J. Saroja, P.V. Anantha Lakshmi , Y. Rammohan, D. Divya Reddy	A new stability-indicating RP-HPLC method for the determination of dicyclomine hydrochloride and dimethicone combination in tablet dosage forms	<i>Future Journal of Pharmaceutic al Sciences</i>	2021 7	2314-7253		https://doi.org/10.1186/s4 3094-021- 00260-0
14	K. Venkat eswarlu, D.Sreenu, G.Ramesh, P.V.Anantha Lakshmi , Shivaraj	Investigation of DNA binding and bioactivities of furan cored Schiff base Cu (II), Ni (II), and Co (III) complexes: Synthesis, characterization and spectroscopic properties	<i>Applied organometalli c Chemistry</i>	2021 35(9)	0268-2605	4.105	https://doi.org/10.1002/ao c.6326

15	D.Sreenu A. Rambabu, G.Nirmala, G.Ramesh, P.V.Anantha Lakshmi , Shivaraj	Spectroscopic, quantum chemical calculations, antioxidant, anticancer, antimicrobial, DNA binding and photo physical properties of bioactive Cu(II) complexes obtained from trifluoromethoxy aniline Schiff bases	<i>Journal of Molecular Structure</i>	2021 1249	0022-2860	3.196	https://doi.org/10.1016/j.molstruc.2021.131601
16	K. Venkateswarlu, P.V.Anantha Lakshmi , Shivaraj	Synthesis, spectroscopic and thermal studies of Cu+2, Ni+2 and Co+3 complexes of Schiff base containing furan moiety. Antitumor, antioxidant, antibacterial and DNA interaction studies	<i>Applied organometallic Chemistry</i>	2021 36(2)	0268-2605	4.105	https://doi.org/10.1002/aoc.6530
17	K. Rajeshwari, P.Vasantha B.Sathish Kumar, P.V.Anantha Lakshmi	Nickel–Metformin Ternary Complexes: Geometrical, Thermal, DNA Binding, and Molecular Docking Studies	<i>Biological trace element research</i>	2022	1559-0720	4.081	https://doi.org/10.1007/s12011-022-03100-1
18	K.Rajeshwari, P. Vasantha, B.Shekhar, P.V.Anantha Lakshmi	Metformin-Derived Water-Soluble Cobalt Complexes: Thermal, Spectroscopic, DNA Interaction, and Molecular Docking Studies	<i>Applied Biochemistry and Biotechnology</i>	2022 194	0273-2289	3.094	https://doi.org/10.1007/s12010-022-03862-3
19	Lakshmi Madhuri Peddada, Someswar Rao Sagurthi, Vijaya Charan Guguloth Ratnamala Annapragada, and Phani Raja Kanuparth	Visible Light Driven Photodegradation of Pathological Effluents and Biological Evaluation of Green ZnO Nanoparticles	<i>Materials Science inc. Nanomaterials & Polymers Chemistry Select</i>	Chemistry Select 2022, 7, e202200146 (11 of 11)		2.307	doi.org/10.1002/slct.202200146

20	P. Sailaja Kumari a, G. Vijaya Charan a, D. Ravi Kumar b	Synthesis, structural, photocatalytic and anti-cancer activity of Zn doped Ni nano chromites by citrate gel auto combustion method	<i>Inorganic Chemistry Communications</i>	Inorganic Chemistry Communications 139 (2022) 109393		2.495	https://doi.org/10.1016/j.inoch.2022.109393
21	D. Ravi Kumar a,*, Ch Abraham Lincoln a, G. Vijaya Charan , Gugulothu Thara b, D. Ravinder , M. Veeraswamy , Pallati Naresh d	Study of photo catalytical, antimicrobial activity, dielectric and ac impedance properties of Zn doped Mg nanoferrites synthesized from citrate gel auto combustion method	<i>Materials Chemistry and Physics</i>	Materials Chemistry and Physics 278 (2022) 125648		4.56	https://doi.org/10.1016/j.matchemphys.2021.125648
22	Kavitha Bengi, Sravanthi Maddikayala Saritha Reddy Pulimamidi	Biological evaluation, molecular docking, DNA interaction and thermal studies of new bioactive metal complexes of 2-Hydroxybenzaldehyde and fluorobenzamine Schiff base ligand	<i>Applied Organometallic Chemistry</i>	Volume 35, Issue 2 / e6085,2021.	1099-0739	4.105	https://doi.org/10.1002/aoc.6085
23	Kavitha Bengi, Sravanthi Maddikayala Saritha Reddy Pulimamidi	DNA binding, cleavage, docking, biological and kinetic studies of Cr(III), Fe(III),Co(II),and Cu(II) complexes with ortho-vanillin Schiff base derivative	<i>Applied Organometallic Chemistry</i>	Volume 36, Issue 1 / e6451,2021.	1099-0739	4.105	https://doi.org/10.1002/aoc.6451
24	Kavitha Bengi, Sravanthi Maddikayala Saritha Reddy Pulimamidi	DNA binding, cleavage, molecular docking, antimicrobial and anticancer activities of Cr(III), Fe(III), Co(II), and Cu(II) complexes of o-vanillin and fluorobenzamine Schiff base ligand	<i>Applied Organometallic Chemistry</i>	Volume 36, Issue 3, e6531,2022.	1099-0739	4.105	https://doi.org/10.1002/aoc.6531

25	R. Sanjeev, D. A. Padmavathi , V. Jagannadham	Is Hammett Correlation of Dipole Moments of mono-Substituted Benzenes Helpful to Distinguish o,p-Directing Groups from m-Directing Groups in an Aromatic Electrophilic Substitution? A Chemical Education Perspective	<i>World Journal of Chemical Education</i>	2021			
26	Aliya Begum, P. Sateesh Kumar, D.A Padmavathi , B. Sireesha, K. Eishwari and Ch. Sarala Devi	Synthesis and characterization of 4- (4'-methoxy) benzylidene amino-5- phenyl-3-mercapto-1, 2, 4-triazole and its complexes with Cu(II), Mn(II)	<i>IJRAR</i>	2021, Volume 8, Issue 3	P- ISSN 2349-5138		
27	B. Vijayalaxmi, Mamathasri, Ch. Vijayatha and A. Hari Padmasri*	Photocatalytic Degradation of Acid Alizarin – Violet N Dye in Visible Light over Nano TiO ₂ and Ag-doped Nano TiO ₂ Catalysts	<i>IOSR Journal of Applied Chemistry (IOSR-JAC)</i>	2022; 15; 1-6	e-ISSN: 2278-5736	-	
28	S. Durga Bhavani, N. Naresh Reddy, A. Krishnam Raju, M. Radhika, P. Muralidhar Reddy and K. Bhaskar	Synthesis and Characterization of Oxo Zirconium (IV) Complexes of Polydentate Ligands	<i>American Institute of Physics (AIP) Conf. Proc. 2021</i>	2021	ISSN 0094-243X print); 1551-7616 (web)	0.40	https://doi.org/10.1063/5.0060864
29	Revathy Sundara Moorthy, Rohini Rondla, M. Kavitha, P. Hima Bindu, Chand Pasha, and P. Muralidhar Reddy	Potential Applications of Nanoparticles Embedded U-bent Fiber Optic Probe	<i>American Institute of Physics (AIP) Conf. Proc. 2021</i>	2021	ISSN 0094-243X (print); 1551-7616 (web)	0.40	https://doi.org/10.1063/5.0060856
30	N. Naresh Reddy, A. Sanjeev, S. Bhaskar, M. Kumara Swamy, V. Srinivasa Rao, A. Krishnam Raju, K. Bhaskar, Anren Hu, P. Muralidhar Reddy	Synthesis and Rational Design of New Appended 1,2,3-Triazole-uracil Ensembles as Promising Anti-Tumor Agents via In Silico VEGFR-2 Transferase Inhibition	<i>Molecules</i>	2021	1420-3049	4.927	doi: 10.3390/molecules26071952

31	Veeraswamy Rama, Nagaraju Rajana, K.Sateesh Reddy, Siddaiah Vidavulur, T.V. Pratap, Siva Bandi, Rohini Rondla, M. Radhika, K. Bhaskar and P. Muralidhar Reddy	Synthesis and characterization of Abacavir acetic acid salt polymorphic transition from Abacavir free base by using Process Analytical Tools (PAT)	<i>Bioscience Biotechnology Research Communications</i>	2021	Print ISSN: 0974-6455 Online ISSN: 2321-4007	1.783	http://dx.doi.org/10.21786/bbrc/13.15/36
32	Sampath Bitla, Akkiraju Anjini Gayatri, P. Muralidhar Reddy , Vijaya Kumar Bhukya, Jagadeshwar Vannada, Ramulu Dhanavath, Bhaskar Kuthati, Devender Kothula, Someswar Rao Sagurthi, Krishnam Raju Atcha	Design and synthesis, biological evaluation of bis-(1,2,3- and 1,2,4)-triazole derivatives as potential antimicrobial and antifungal agents	<i>Bioorganic & Medicinal Chemistry Letters</i>	2021	2.823	0960-894X	doi: 10.1016/j.bmc.2021.128004
33	Mallesha Magini, Sampath Bitla, P. Muralidhar Reddy Saritha Birudaraju, Ramulu Dhanavath, Krishnam Raju Atcha	An Efficient (TBA) ₂ S ₂ O ₈ Catalyzed Regioselective Solvent-Free One-Pot Synthesis of Fully Substituted Pyrazoles	<i>Results in Chemistry</i>	2021	2211-7156		https://doi.org/10.1016/j.rchem.2021.100184
34	R. Rohini, N. Naresh Reddy, A. Sanjeev, S. Bhaskar, and P. Muralidhar Reddy	Mono and Tri-cationic Imidazolium Salts: Use as Stabilizers for Silver Nanoparticles and Anticancer Study	<i>Asian J. Org. Med. Chem.</i>	2021	2456-8937	1.08	https://doi.org/10.14233/ajomc.2021.AJOMC-P331
35	A. Sanjeev, N. Naresh Reddy, M. Kumara Swamy, Rohini Rondla, S. Ranga Reddy, and P. Muralidhar Reddy	Synthesis, Characterization and in vitro Anticancer Studies of New Co(II), Ni(II), Cu(II) and Zn(II) Complexes of (E)-4-((Quinoline-8-ylimino)methyl)benzene-1,2,3-triol Ligand	<i>Asian J. Org. Med. Chem.</i>	2021	2456-8937	1.08	DOI: 10.14233/ajomc.2021.AJOMC-P345

36	Tai-Yue Li, Ming-Kang Ho, Tus-En Hsu, Hsin-Hao Chiu, Kuan-Ting Wu, Jen-Chih Peng, Chun-Ming Wu, Ting Shan Chan, B Vijaya Kumar, P Muralidhar Reddy , Shyue-Chu Ke, Chia-Liang Cheng, Ashish Chhaganlal Gandhi, Sheng Yun Wu	Antiferromagnetic spin correlations above the bulk ordering temperature in NiO nanoparticles: Effect of extrinsic factors,	<i>Applied Surface Science</i>	2022	0169-4332	6.707	DOI: https://doi.org/10.1016/j.apsusc.2021.152081
37	Kura Narsimha, N. Anuradha, Kathi Sudarshan, Ashish Chhaganlal Gandhi, A. Krishnam Raju, P. Muralidhar Reddy , Radhika Mone, G. Upender, B. Vijaya Kumar	One-Pot Hydrothermal Preparation and Defects Enhanced Photocatalytic Activity of Bi doped CdWO ₄ Nanostructures	<i>Physical Chemistry Chemical Physics</i>	2022	1463-9076 (print); 1463-9084 (web)	3.945	https://doi.org/10.1039/D1CP02885E
38	Ashish Chhaganlal Gandhi, Hsin-Hao Chiu, Ming-Kang Ho, Tsu-En Hsu, Tai-Yue Li, Yu-Hao Wu, B. Vijaya Kumar, P. Muralidhar Reddy , Bi-Hsuan Lin, Chia-Liang Cheng, and Sheng Yun Wu	Modulation of Magnetic and Luminescence Properties via Control Cu-Doped in CdWO ₄ Nanorods for Photocatalytic Applications	<i>ACS Appl. Nano Mater.</i>	2022	1422-0067	5.097	https://doi.org/10.1021/acs.anm.2c03092
39	S. Mishra, P. Supraja, D. Haranath, R. R. Kumar, Someshwar Pola,	Effect of surface and contact points modification on the output performance of triboelectric nanogenerator	<i>Nano Energy</i>	2022	107964		
40	R. Gade, M. Basude, R. Vummadi, Someshwar Pola	Benzodithiophene-Based, Donor–Acceptor– π –Donor–Acceptor Systems as Hole Transporting Materials for Efficient Perovskite Solar Cells	<i>Water Research & Technology</i> ,	2022	3065–3078		

41	V. M. Vidya, Someshwar Pola,* P Chetti,	Synthesis and Optical Properties of Mono-and DiSubstituted 1, 3, 5-Triazines Functionalized with Thiophene and Furan,	Journal of Molecular Structure,	2022	132408		
42	S. P. Sai Sushma, G. Swarupa, T. Nagesh, Someshwar Pola, P. Rajitha, B. Vijaya Kumar, G. Upender	Enhanced photocatalytic activity of CdWO ₄ /BaTiO ₃ heterostructure for dye degradation,	New J. Chem	2021	19723-19732		
43	G. Maddala, R. Gade, J. Ahemed, S. Kalvapalli, N. B. Simhachalam, P. Chetti, Someshwar Pola,* R. Mitty	Efficient, Dopant free Phenazine based Hole Transporting Materials for High Performance Perovskite Solar Cells.	Solar Energy	2021	501-512		
44	Venkateshwar Rao D, Mahesh Subburu, Ramesh Gade, Manohar Basude, Chetti Prabhakar, Narendra S. Babu, Nagababu penumaka Yadagiri Bhonogiri and Someshwar Pola,	New Zn (II) Complex-Composite Material: Piezo-Enhanced Photomineralization of Organic Pollutants and Wastewater from Lubricant Industry	Environ. Sci.: Water Res. Technol	2021	1737-1747		
45	Venkat Swamy Puli, Suresh K, Yadagiri Bhongiri, Anuj Tripathi, Prabhakar Chetti, Anindita Chatterjee, Kiran Kumar Vukoti and Someshwar Pola	New indolo[1,2-c]quinazolines for Single-crystal field effect transistor (SCFET): A united Experimental and Theoretical Studies	Journal of Physical Organic Chemistry	2021	e4276		
46	J. Ahemed, J. Pasha, V. Rao D. R. Kore, R. Gade, Y. Bhongiri, P. Chetti, Someshwar Pola	Synthesis of New Zn (II) Complexes for Photo decomposition of Organic Dye Pollutants, Industrial Wastewater and Photo-oxidation of methyl Arenes under Visible-light	Journal of Photochemistry & Photobiology, A: Chemistry	2021	113455		

47	V. S. Puli, M. Subburu, Y. Bhongiri, A. Tripathi, K.R.S. Prasad, A. Chatterjee, Someshwar Pola,* P. Chetti	New Indolo[3,2-b]indole based small organic molecules for Organic Thin Film Transistors (OTFTs): A combined experimental and DFT Study	<i>Journal of Molecular Structure</i>	2021	129491		
48	Vidya V. M., Someshwar Pola and Prabhakar Chetti	Optoelectronic and charge transport properties of D-n-A type 1,3,5-triazine derivatives: A combined experimental and DFT study, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	<i>Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy</i>	2021	118940		
49	Reddy, R. J.* Waheed, Md., Kumari, A. H., and Krishna, G. R.	Interrupted CuAAC-Thiolation for the Construction of 1,2,3-Triazole-Fused Eight-Membered Hetero-cycles from O-/N-Propargyl derived Benzyl Thiosulfonates with Organic Azides	<i>Adv. Synth. Catal.</i> 2022 , <i>364</i> , 319-325	2022/364		5.981	
50	Reddy, R. J.* Shankar, A., Kumar, J. J. Sharadha, N., and Krishna, G. R.	Diethyl phosphite-mediated switchable synthesis of bis(imidazoheterocycles) derived disulfanes and sulfanes using imidazoheterocycles and octasulfur	<i>New. J. Chem.</i> 2022 , <i>46</i> , 4784-4791	2022/46		3.925	
51	Reddy, R. J.* Kumari, A. H., Sharadha, N. and Krishna, G. R.	Solvent-Dependent Mono- and Bis-Thiolation of (E)- α -Iodovinyl Sulfones with Thiols for Flexible Synthesis of 1,2-Thiosulfonylalkenes and 1,2-Dithioalkenes	<i>J. Org. Chem.</i> 2022 , <i>87</i> , 3934-3951.	2022/87		4.198	
52	Reddy, R. J.* Sharadha, N. Kumari, A. H.	Base-mediated [3+2]-cycloannulation strategy for the synthesis of pyrazolo[1,5-a]pyridine derivatives using (E)- β -iodovinyl sulfones	<i>Org. Biomol. Chem.</i> , 2022 , <i>20</i> , 4331-4337	2022/20		3.890	

53	Radhakrishna Muttineni, Binitha R.N, Kalyani Putty, Kavitha Marapakala , Sandra K.P., Jaslin Panyam, Aravind Vemula, Shashi Mohan Singh, Subin Balachandran, Viroji Rao S.T. Anand Kumar Kondapi	SARS-CoV-2 variants and spike mutations involved in second wave of COVID-19 pandemic in India	<i>Transbound Emerg Dis</i>	March 2022		4.521	doi: 10.1111/tbed.14508.
54	A. Dayanand, A. Vasantha, V.D. Shukla, Ch. Nagamani, P. Venkat Reddy, V. Ravi Kumar, K. Laxma Reddy , Prof. S. Satyanarayana	Synthesis, structural characterization, in vitro DNA binding, cytotoxic activity properties of Ru(II) compounds containing NTIP and BTIP ligands	<i>IJARSCT</i>	Vol.12, Issue 4, Dec 2021	2581-9429		
55	S. P. Sai Sushma, G. Swarupa, T. Nagesh, Someshwar Pola, P. Rajitha, B. Vijaya Kumar and G. Upender,	“Enhanced photocatalytic activity of CdWO ₄ /BaTiO ₃ heterostructure for Dye degradation”, <i>New J. Chem.</i> 45 (2021) 19723-732.	<i>New Journal of Chemistry</i>	2021	1144-0546	3.591	doi.org/10.1039/D1NJ01556G
56	Sampath Bitla, Akkiraju Anjini Gayatri, Muralidhar Reddy Puchakayala, Vijaya Kumar Bhukya , Jagadeshwar Vannada, Ramulu Dhanavath, Bhaskar Kuthati, Devender Kothula, Someswar Rao Sagurthi, Krisham Raju Atcha	Design and synthesis, biological evaluation of bis-(1,2,3- and 1,2,4)-triazole derivatives as potential antimicrobial and antifungal agents	<i>Bioorganic & Medicinal Chemistry Letters</i>	2021	0960-894X	2.823	doi: 10.1016/j.bmcl.2021.128004.
57	M. Anand Pandarinath, Muralikrishna, D. Suresh	“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”,	<i>Journal of Non</i>	2021	0022-3093.	4.453	doi.org/10.1016/j.jnoncrys

	Babu, B. Vijaya Kumar , G. Upender		<i>Crystalline Solids</i>				ol.2021.120875
58	Tai-Yue Li, Ming-Kang Ho, Tus-En Hsu, Hsin-Hao Chiu, Kuan-Ting Wu, Jen-Chih Peng, Chun-Ming Wu, Ting Shan Chan, B. Vijaya Kumar , P Muralidhar Reddy, Shyue-Chu Ke, Chia-Liang Cheng, Ashish Chhaganlal Gandhi, Sheng Yun Wu	Antiferromagnetic spin correlations above the bulk ordering temperature in NiO nanoparticles: Effect of extrinsic factors,	<i>Applied Surface Science</i>	2022	0169-4332	6.707	DOI: https://doi.org/10.1016/j.apsusc.2021.152081
59	Kura Narsimha, N. Anuradha, Kathi Sudarshan, Ashish Chhaganlal Gandhi, A. Krishnam Raju, P. Muralidhar Reddy , Radhika Mone, G. Upender, B. Vijaya Kumar	One-Pot Hydrothermal Preparation and Defects Enhanced Photocatalytic Activity of Bi doped CdWO ₄ Nanostructures	<i>Physical Chemistry Chemical Physics</i>	2022	1463-9076 (print); 1463-9084 (web)	3.945	https://doi.org/10.1039/D1CP02885E
60	A Kishore, Kumar, V Sunitha, P Shankaraiah, P Jalapathi*	Synthesis, characterization and antimicrobial evaluation of some novel (3-methyl-5-((3- phenylisoxazol-5-yl) methoxy) benzofuran-2- yl)(phenyl) methanones	<i>Indian Journal of Chemistry- Section B [NIScPR-CSIR, India]</i>	60B(08) 2021	0975-0983	0.592	
61	N Umapathi, B Shankar, M Raghavender, T Vishnu, P Jalapathi*	Some Novel [6-(Isoxazol-5- ylmethoxy)-3-methylbenzofuran-	<i>Russian Journal of General Chemistry</i>	92(2)2022-	1070-3632	0.779	

		2-yl] phenylmethanone Derivatives, Their Antimicrobial Activity, and Molecular Docking Studies on COVID-19	[Springer Nature]				
62	M Nagamani, T Vishnu, P Jalapathi , M Srinivas	Molecular docking studies on COVID-19 and antibacterial evaluation of newly synthesized 4- (methoxymethyl)-1,2,3-triazole analogues derived from (E)-1-phenyl-3-(2-(piperidin-1-yl)quinolin-3-yl) prop-2-en-1-one	Journal of the Iranian Chemical Society [Springer Nature]	19(4)2022	1735-2428	2.271	
63	Bala Narsimha Dhoddi, Ravi Kurapati , ovardhan Reddy Kundur, Sampath Bitla, Balaswamy uligilla , & Jalapathi Pochampally	Synthesis And InVitro Cytotoxic Evaluation Of Novel Triazole-Benzimidazole Embodied Pyrazole Derivatives Against Breast Cancer	Rasayan Journal of Chemistry [Springer]	15(2) 2022	0976-0083	1.30	
64	Matta Raghavender, Jalapathi Pochampally* , Bala Narsimha Dhoddi, Bhookya Shankar, Sampath Bitla, Anjini Gayatri Akkiraju	Synthesis, antimicrobial and antioxidant activity of triazole, pyrazole containing thiazole Derivatives and Molecular docking studies on COVID-19	BMC Chemistry (In Press)	2022	2661-801X	4.095	
65	Matta Raghavender, Bhookya Shankar, Nalla Umapathi, Pochampally Jalapathi*	Synthesis of newer substituted chalcone linked 1, 2, 3-triazole analogs and evaluation of their cytotoxic activities	Heterocyclic Communications	28(1)2022	2191-0197	2.00	
66	Gaddameedi Hima Bindu, Vaishnavi Kammara, Pallati Srilekha, K.Swetha, Y. KalyanaLaxmi, P.Veerasomaiah and Muga Vithal ,	Preparation, characterization and photocatalytic studies of $\text{LaAl}_{0.5}\text{Fe}_{0.5}\text{O}_3$, $\text{LaAl}_{0.5}\text{Cr}_{0.5}\text{O}_3$ and $\text{LaCr}_{0.5}\text{Fe}_{0.5}\text{O}_3$.	J. Mol. Structure,	2022, 134220		3.801	https://doi.org/10.1016/j.molstruc.2022.134220 .

67	Manasa Sunku, Perala Venkataswamy, Gaddameedi Hima Bindu, Pallati Srilekha, M. Srinivas, and M. Vithal	<i>A Novel Approach for Generation of Oxygen Vacancies in Trirutile MnSb₂O₆ and Their Impact on Photocatalytic Degradation of MO Dye</i>	European J of Inorganic chemistry	2022	e202200550	2.3	https://doi.org/10.1002/ejic.202200550
68	Gaddameedi Hima Bindu, Manasa Sunku, Kadari Ramaswamy, Pallati Srilekha, Puppala Veerasomaiah and Muga Vithal	<i>Effect of Ag⁺, Cu²⁺ and Sn²⁺ Doping on Structural, Optical and Photocatalytic Properties of KGe_{0.5}Te_{1.5}O₆ with Defect Pyrochlore Structure</i>	Chemistry Select	7 (2022)	e202202780	2.307	https://doi.org/10.1002/slct.202202780
69	Kunja Laxminarayana, Koneti Srikanth, Amarapuri Trinadh, Pallati Srilekha, Muga Vithal, Mudavat Srinivas	<i>Emission (Gd³⁺ and Sm³⁺) and ESR (Gd³⁺) studies of La_{1-x}Ln_xB₃O₆ (Ln = Gd, Sm; 0 ≤ x ≤ 0.2 for Gd; 0 ≤ x ≤ 0.1 for Sm) phosphors</i>	Mater. Sci.: Mater. Electron. J	(2022).	08786-6	2.779	https://doi.org/10.1007/s10854-022-
70	Vaishnavi Kammara, Perala Venkataswamy, Manasa Sunku, Kadari Ramaswamy, Gaddameedi Hima Bindu, Sudhakar Reddy Chandiri, M. Vithal	<i>Preparation, Characterization and Photocatalytic Activity studies of Ag⁺, Cu²⁺ and Sn²⁺-doped Li₂GeTeO₆ under Visible Light Irradiation</i>	Adv. Mater. Lett.	13(2022)	031703.	NA	
71	Kammara Vaishnavi, Perala Venkataswamy, Kadari Ramaswamy, Pallati Srilekha, Muga Vithal	<i>Preparation, characterization and photocatalytic studies of parent and ion-doped Li₂TiTeO₆</i>	Materials Science in Semiconductor Processing	148 (2022)	106805	4.644	https://doi.org/10.1016/j.mssp.2022.106805
72	Vaishnavi Kammara, Perala Venkataswamy, G.Ravi, K. Ramaswamy, Manasa Sunku, M. Vithal	<i>Preparation, characterization and visible light photocatalytic studies of Ag/AgBr/Li₂ZrO₃ composite.</i>	Inorganic Chemistry Communications	141(2022)	109504	3.428	https://doi.org/10.1016/j.inoche.2022.109504

73	Rani Angineni, Venkataswamy Perala, Ramaswamy Kadari, Srilekha Pallati, Sreenu Kurra, M. Vithal	<i>Facile ion-exchange synthesis of Gd-doped K₂Ta₂O₆ photocatalysts with enhanced visible light activity.</i>	Journal of the Indian Chemical Society	99 (2022) 100495		0.243	
74	Rani Angineni, Perala Venkataswamy, Kadari Ramaswamy, Shiv Raj, Naveen Kumar Veldurthi, M. Vithal	<i>Preparation, characterization and photocatalytic activity studies of transition metal ion doped K₂Ta₂O₆.</i>	Polyhedron	214 (2022)	115620	2.975	https://doi.org/10.1016/j.poly.2021.115620
75	Vaishnavi Kammara, Perala Venkataswamy, Rani Angineni, G. Hima Bindu, Suresh Velpula, Karuna Rupula, M. Vithal	<i>Ag₂VO₂PO₄ Nanorods: Synthesis, Characterization, Photoactivity & Antibacterial activity.</i>	Zeitschrift für anorganische und allgemeine Chemie	648 (2022) e202100264		1.414	https://doi.org/10.1002/zaac.202100264
76	Ravinder Dharavath, M. Sarasija, K.N. Prathima, M. Ram Reddy, Shyam Panga, Vishnu Thumma, D. Ashok	Microwave-assisted synthesis of (6-((1-(4-aminophenyl)-1H-1,2,3-triazol-4-yl)methoxy)substituted benzofuran-2-yl)(phenyl)methanones, evaluation of <i>in vitro</i> anticancer, antimicrobial activities and molecular docking on COVID-19	Results in Chemistry	2022, 4, 100628	2211-7156	2.5	https://doi.org/10.1016/j.rchem.2022.100628
77	Dharavath R, Sarasija M, Ram Reddy M, Nalaparaju N, Katta R, Ashok D	<i>Microwave assisted synthesis of substituted (E)-{3-[2-(1,3-Diphenyl-1H-Pyrazol-4-YL)Vinyl]Benzofuran-2-YL}(Phenyl)Methanone and their antimicrobial activity</i>	Journal of Heterocyclic Chemistry	2021, 57(11), 3943-3950	1943-5193	2.4	https://link.springer.com/article/10.1007/s00044-020-02515-6
78	Shyamala, Dongamanti Ashok	<i>Development of forced degradation studies of favipiravir by RP-HPLC</i>	Journal of Medicinal Pharmaceutical and Allied Sciences	2021, 10(6), 3823-3826	2320-7418		DOI: 10.22270/jmpas.2021.V10I6.1493

79	Bandigari P, Dongamanti Ashok	<i>Purification, extraction of semecarpus anacardium by traditional method and evaluation of antibacterial activity</i>	Journal of medical pharmaceutical and allied sciences	2021, 10(5), 3633-3635	2320-7418		DOI: 10.22270/jmpas.V10I5.1430
80	D.Ashok , Katta Ramakrishna, Nalaparaju Nagaraju, M. Ram Reddy, Ravinder Dharavath, M. Sarasija	<i>Microwave-Assisted Synthesis of Substituted 2-(2 H -Chromen-3-yl)-5-phenyl-1 H -imidazole Based Coumarin Derivatives and Their Antimicrobial Activity</i>	Russian Journal of General Chemistry	2021, 91(716), 711-	1070-3632	0.9	
81	Sandupatla R, Dongamanti A , Koyyati R	<i>Antimicrobial and antioxidant activities of phytosynthesized Ag, Fe and bimetallic Fe-Ag nanoparticles using Passiflora edulis: A comparative study</i>	Materials Today: Proceedings	2021, 44(1), 2665-2673	2214-7853		https://doi.org/10.1016/j.matpr.2020.12.679
82	Shyamala, D.Ashok , P.Shyam	<i>A Novel Validated Gradient Hplc Method For Analysing Axitinib And Their Process Related Impurities By Pda Detection</i>	INTERNATIONAL JOURNAL OF PHARMACEUTICAL RESEARCH	2021,15(1),	0975-2366		http://dx.doi.org/10.31838/ijpr/2021.13.01.107

List of Publications of Department of Chemistry: 2020-2021

Sl. No.	Author	Title	Publication type	ISSN no./Year of Publication/IF
1	Areef Mohammed, Yaku Gugulothu, Rajkumar Bandi, Ramakrishna Dadigala, Umesh Kumar Utkoor	Ultraspeed synthesis of highly fluorescent N-doped carbon dots for the label-free detection of manganese (VII)	<i>Journal of the Chinese Chemical Society.</i>	2021
2	K. Chandra Rekha, Gugulothu. Yaku and U. Umesh Kumar	Characterisation, anti bacterial and anticancer investigation of green synthesized silver nanoparticles utilizing gymnema sylvestre leaf .broth (podapathri) by microwave light strategy	<i>Rasayan journal of chemistry.</i>	2021
3	K. Chandra Rekha, GugulothuYaku, M. Prashanthi. and U. Umesh Kumar	In Vitro synthesis, characterization and DNA binding studies of Gold Nanoparticles by using Orange (citrus sinensis) peels extract.	<i>Indian Journal of Advances in Chemical Sciences</i>	2021
4	K.Chandra Rekha, U.Umesh Kumar	A Perspective Approach on Nanomaterial's for the Removal of Heavy Metals from Waste Water	<i>The International journal of analytical and experimental modal analysis</i>	2020
5	M. Prashanthi. Gugulothu. Yaku, K. Chandra Rekha, and U. Umesh Kumar	Validated UV Spectrophotometric Methods for the Simultaneous Estimation of Omeprazole and Domperidone	<i>Indian Journal of Advances in Chemical Sciences</i>	2021
6	Vijay Shekar Pulusu, K. C. Rajanna *, U. Umesh Kumar , M. Anil Kmar, aku Guguloth, Yadagiri Pulusu	“Ultrasonically Assisted Thiocyanation of Aromatic and Heteroaromatic Compounds Using Silica-Supported Bronsted Acids (HClO ₄ -SiO ₂ and KHSO ₄ -SiO ₂) as Reusable Catalysts.	<i>Indian Journal of Advances in Chemical Sciences</i>	2021
7	Vijay Shekar Pulusu, Chinna Rajanna Kamatala ^{1*} , Umesh Kumar Utkoor , Maasi Reddy Nagannagari, Samba	“Silica supported acids (HClO ₄ -SiO ₂ , KHSO ₄ -SiO ₂) as eco-friendly reusable catalysts for Bromo decarboxylation of α , β unsaturated carboxylic acids	<i>Asian Journal of Chemistry</i> 0975-427X	2021, IF 0.16

	Shiva Rao Arisha, Yaku Gugulothu	using KBr under solvothermal and solvent-free conditions”.		
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82	Sudheera M, Ravinder G, Ravi G, Venkataswamy P, Vaishnavi K, Chittibabu N, Vithal M	Synthesis, characterization and photocatalytic dye degradation studies of novel defect pyrochlore, KHf _{0.5} Te _{1.5} O ₆	<i>Indian Journal of Chemistry</i> -A	2020 / 0/489
83	Ravi Gundeboina, Venkataswamy P, Vithal M	Hydrothermal synthesis of C-doped K ₂ Al ₂ Ti ₆ O ₁₆ as a visible light-activated photocatalyst in the degradation of organic dyes	<i>Journal of Australian Ceramic Society,</i>	2020 / 1.307
85	Venkataswamy P, Devaiah D, Jampaiah D, Mukherjee D, Vithal, M, Reddy B. M.,	Cr-doped CeO ₂ Nanorods for CO Oxidation: Insights into Promotional Effect of Cr on Structure and Catalytic Performance	<i>Catalysis Letters</i>	2020 / 2.482

List of Publications of Department of Chemistry :2019-2020

Sl. No	Author	Title	Publication type	ISSN no./Year of Publication/IF
1	Gali Ramesh, Sreenu Daravath, Swathi M, V. Sumalatha, Dasari Shiva Shankar, Shivaraj	Investigation on Co(II), Ni(II), Cu(II) and Zn(II) complexes derived from quadridentate salen-type Schiff base: Structural characterization, DNA interactions, antioxidant proficiency and biological evaluation	<i>Chemical Data Collections</i> , 28, (2020), 100434, DOI: 10.1016/j.cdc.2020.100434	2020/IF=0.94
2	Dasari Shiva Shankar, Nirmala Ganji, Sreenu Daravath, Kadtala Venkateswarlu, Shivaraj	Structure elucidation of copper(II), cobalt(II) and nickel(II) complexes of benzothiazole derivatives: Investigation of DNA binding, nuclease efficacy, free radical scavenging and biocidal properties	<i>Chemical Data Collections</i> , 28, (2020), 100439, DOI: 10.1016/j.cdc.2020.100439	2020/IF=0.94
3	Sundeeep Kadasi, Ravali Yerroju, Swetha Gaddam, Nikhila Pullanagiri, Meghana Chary, Divya Pingili, Nulgumnalli Manjunathaiah Raghavendra, Shivaraj	Discovery of N-pyridoyl- Δ^2 -pyrazolines as Hsp90 inhibitors	<i>Arch Pharm Chem Life Sci.</i> 2019;e1900192.	2020/IF=2.59
4	N. Jyothi, Nirmala Ganji, Sreenu Daravath, Shivaraj	Mononuclear cobalt(II), nickel(II) and copper(II) complexes: Synthesis, spectral characterization and interaction study with nucleotide by <i>in vitro</i> biochemical analysis.	<i>Journal of Molecular Structure</i> , 1207 (2020) 127799.	2020/IF=2.12
5	Narendrula Vamsikrishna, Sreenu Daravath, Nirmala Ganji, Nayeem Pasha, Shivaraj	Synthesis, structural characterization, DNA interaction, antibacterial and cytotoxicity studies of bivalent transition metal complexes of 6-aminobenzothiazole Schiff base.	<i>Inorganic Chemistry Communications</i> , 113 (2020) 107767	2020/IF=1.79
6	Gali Ramesh, Sreenu Daravath, Nirmala Ganji, Aveli Rambabu, Kadtala Venkateswarlu, Shivaraj	Facile synthesis, structural characterization, DNA binding, incision evaluation, antioxidant and antimicrobial activity studies of Cobalt(II), Nickle(II) and Copper(II) complexes of 3-amino-5-(4-fluorophenyl)isoxazole derivatives	<i>Journal of Molecular Structure</i> . 1202 (2020) 12733	2020/IF=2.12

7	Sreenu Daravath , Aveli Rambabu , Dasari Shiva Shankar, Shivaraj	Structure elucidation of copper(II), cobalt(II) and nickel(II) complexes of benzothiazole derivatives: Investigation of DNA binding, nuclease efficacy, free radical scavenging and biocidal properties	<i>Chemical Data Collections</i> , 24 (2019) 100293	2019/IF=0.94
8	Sunitha Gurralla, Shivaraj , CVS Subrahmanyam, Panikumar Durga Anumolu, Gowthami Saraf	Analytical Quality by Design Assisted HPLC Method for Quantification of Canagliflozin/ Metformin and Stability Studies	<i>Indian Journal of Pharmaceutical Education and Research</i> , 2019; 53(4s):s699-s709.	2019/IF=0.180
9	Aveli Rambabu, Sreenu Daravath, Nirmala Ganji, Dasari Shiva Shankar, Krishnan Rangan and Shivaraj	Mononuclear Co(II), Ni(II) and Cu(II) complexes of the Schiff base, 2- (((4-trifluoromethoxy)phenylimino)methyl)-6-tert-butylphenol: Synthesis, spectroscopic characterization, X-ray study and biological evaluation	<i>Journal of Molecular Structure</i> , 1199 (2020) 127006.	2020/IF=2.12
10	Kadtala Venkateswarlu, Nirmala Ganji, Sreenu Daravath, Kumar Kanneboina, Krishnan Rangan, Shivaraj	Crystal structure, DNA interactions, antioxidant and antitumor activity of thermally stable Cu(II), Ni(II) and Co(III) complexes of an N,O donor Schiff base ligand	<i>Polyhedron</i> , 171 (2019) 86–97.	2019/IF=2.284
11	Sreenu Daravath, Aveli Rambabu, Narendrula Vamsikrishna, Nirmala Ganji and Shivaraj	Synthesis, structural characterization, antioxidant, antimicrobial, DNA incision evaluation and binding investigation studies on copper(II) and cobalt(II) complexes of benzothiazole cored Schiff bases	<i>Journal of Coordination Chemistry</i> , 72 (2019) 1973-1993.	2019/IF=1.68
12	Nayeem Pasha, N. Lingaiah, Shivaraj	Zirconium Exchanged phosphotungstic acid Catalysts for Esterification of Levulinic Acid to Ethyl Levulinate	<i>Catalysis Letters</i> , Vol. 149, pp 2500-2507.	2019/IF=2.37
13	Sravanthi Siliveri, Harinadha Babu Vamaraju, and Shivaraj	Design, Synthesis, Molecular Docking, Admet Studies And Biological Evaluation Of Pyrazoline and Isoxazole Incorporating 1,2,3-Triazole Benzene Sulphonamides	<i>Russian Journal of Bioorganic Chemistry</i> , 45 (2019), 381-390.	2019/IF=0.90
14	Sravanthi Siliveri, Nagaraju Bashaboina, Harinadha Babu Vamaraju, and Shivaraj	Design, Synthesis, Molecular Docking, Admet Studies And Biological Evaluation Of Pyrazoline Incorporated 1,2,3-Triazole Benzene Sulphonamides	<i>International Journal of Pharmacy and Pharmaceutical Sciences</i> , 11 (2019), 0971-1491.	2019/IF=0.60
15	Sravanthi Siliveri, Harinadha Babu Vamaraju, and Shivaraj	Synthesis and biological evaluation of furo[3,2-c] pyrazole-5-carbimides	<i>Asian Journal of Chemistry</i> , 31 (2019), 2389-2393.	2019/IF=0.30
16	V. Sumalatha, Aveli Rambabu, Narendrula Vamsikrishna, Nirmala Ganji, Sreenu Daravath and Shivaraj	Synthesis, characterization, DNA binding propensity, nuclease efficacy, antioxidant and antimicrobial activities of Cu(II), Co(II) and Ni(II) complexes derived from 4-(trifluoromethoxy)aniline Schiff bases	<i>Chemical Data Collections</i> , 20 (2019) 100213.	2019/IF=0.90

17	Nayeem Pasha, P. Krishna Kumari, N. Vamsikrishna, N. Lingaiah, N J P Subhashini and Shivaraj	Conversion of fructose into 5-hydroxymethylfurfural over mesoporous-ZrO ₂ -phosphomolybdic acid nanocomposite catalysts,	<i>Indian Journal of Chemistry, Vol. 58A, March 2019, pp. 313-320.</i>	2019/IF=0.483
18	Aveli Rambabu, Marri Pradeep Kumar, Nirmala Ganji, Sreenu Daravath and Shivaraj	DNA binding and cleavage, cytotoxicity and antimicrobial studies of Co(II), Ni(II), Cu(II) and Zn(II) complexes of 1-((E)-(4-(trifluoromethoxy)phenylimino)methyl)naphthalen-2-ol Schiff base	<i>Journal of Biomolecular Structure and Dynamics, /doi.org/10.1080/07391102.2019.1571945.</i>	2019/IF=3.31
19	S. Sandhya Rani, N.J.P. Subhashini and Shivaraj	Synthesis of Novel 1,3-Indanedione Derivatives and pharmacological Evaluation as Anti-Microbial, Anti-Oxidative agents.	<i>International Journal of Pharmaceutical Science and Research, 10(6):1000-07, 2019.</i>	2019/IF=0.83
20	K. Mahesh, K. Ravi, Praveen Kumar Rathod and P. Leelavathi	Convenient synthesis of quinoline-fused triazoloazepine /oxepine derivatives through Pd- catalyzed C–H functionalisation of triazoles	<i>New J. Chem., 2020, 44, 2367</i>	2020/IF=3.068
21	Shankaraiah Pagilla, Angajala Kishore Kumar, Vianala Sunitha and Anagani Kanaka Durga Bhavani	PEG-mediated synthesis of 6-pyrazinyl-/fused pyrazinylquinazolin-4(3H)-ones using Castro–Stephen coupling, oxidation and cyclocondensation reactions.	<i>J. Serb. Chem. Soc. 85 (5) 601–608 (2020)</i>	2020/IF=1.023
22	P. Shankaraiah, A. K. D. Bhavani , A. Kishore Kumar, and K. Ramakrishna	Synthesis and Cytotoxicity of Quinazolin-4(3H)-one Based Peptides.	<i>Russian Journal of General Chemistry, 2020, Vol. 90, No. 4, pp. 720–724</i>	2020/IF=0.716
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24	B. Shekhar, P. Vasantha, B. S. Kumar, P.V. Anantha Lakshmi	Chromium-metformin ternary complexes: Thermal, DNA interaction and Docking studies	<i>Applied Organometallic Chemistry, 2019, 33:e5086</i>	2019/IF=3.581
25	Rambabu Gundeboina, Suresh Gadasandula, Vijay Kumar Velisoju, Naresh Gutta, Laxma Reddy Kotha, Hari Padmasri Aytam	Ni-Al-Ti Hydrotalcite Based Catalyst for the Selective Hydrogenation of Biomass-Derived Levulinic Acid to γ -Valerolactone	<i>Chemistry Select 4(2019) (1), 202-210; ISSN: 2365-6549</i>	2019/IF=1.505

26	Rambabu Gundeboina, Vijay Kumar Velisoju, Naresh Gutta, Sudhakar Medak, Hari Padmasri Aytam	Influence of surface Lewis acid sites for the selective hydrogenation of levulinic acid to γ -valerolactone over Ni–Cu–Al mixed oxide catalyst	<i>Reac Kinet Mech Cat.</i> , 2019, online, 1-16, ISSN 1878-5190	2019/IF=1.515
27	Mahesh K and D A Padmavathi	Novel Photoswitchable dihetarylethenes exhibiting fluorescence	<i>Journal of Fluorescence Volume 30, Page 35-40, Year 2020</i>	2020/IF=2.093
28	B.Kavitha, M.Sravanthi, P.Saritha Reddy	DNA interaction,docking,molecular modeling and biological studies of o-Vanillin derived Schiff base metal complexes	<i>Journal of Molecular Structure</i> , 1185 , 5 June 2019, 153-167. DOI: 10.1016/j.mol struc.2019.02.093	2019/IF=2.463
29	M. Sravanthi, B. Kavitha and P. Saritha Reddy	Green route for efficient synthesis of biologically active Schiff base ligand derived from 2-hydroxyacetophenone - Structural,spectroscopic,Antimicrobial and Molecular modeling studies.	<i>International Research Journal of Pharmacy</i> , 2019, 10 (3) 215-220. DOI: 10.7897/2230-8407.1003107	2019/IF=0.20
30	Pulimamidi Saritha Reddy	Co(II), Ni(II), Cu(II) complexes of sulphur containing Schiff base ligand- synthesis, spectroscopic, molecular modeling and antimicrobial studies	<i>International journal of Pharmaceutical sciences and research</i> , 2019, 10(11) ,5194-5202	2019/IF=0.33
31	P. Ramesh, V. Srinivasa Rao, P. Muralidhar Reddy , K. Suresh Babu and M. Srinivasa Rao	Synthesis, biological evaluation and molecular modeling studies of novel C(7) modified analogues of chrysin	<i>Letters in Drug Design & Discovery</i> , 2020, 17(7), 873-883	2020/IF=1.169
32	Kura Narsimha, M. Shekar Babu, N. Anuradha, Swarupa Guda, B. Kranthi Kumar, D. Mallesh, G. Upender, P. Muralidhar Reddy and B. Vijaya Kumar	Preparation and characterization of CdWO ₄ :Cu nanorods with enhanced photocatalytic performance under sunlight irradiation	<i>New J. Chem.</i> , 2020, 44, 2380—2388,	2020/IF=3.069
33	K. Sateesh Reddy, Bandi Siva, S. Divya Reddy, N. Naresh Reddy, T.V. Pratap, B. Venkateswara Rao, Yi-An Hong, B. Vijaya Kumar, A. Krishnam Raju, P. Muralidhar Reddy* , and Anren Hu	In situ FTIR Spectroscopic Monitoring of the Formation of the Arene Diazonium Salts and its Applications to Heck-Matsuda Reaction	<i>Molecules</i> 2020, 25(9), 2199	2020/IF=3.288

34	Sampath Bitla, Ramulu Dhanavath, P. Muralidhar Reddy , Saritha Birudaraju, Someswar rao Sagurthi, Akkiraju Anjini Gayatri, B. Vijaya Kumara, Krisham Raju Atcha,	Design and Synthesis of Triazole Conjugated Novel 2,5-Diaryl Substituted 1,3,4-Oxadiazoles as Potential Anti-microbial and Antifungal Agents	<i>Molecular Structure</i> , 2020, 1220, 128705, (https://doi.org/10.1016/j.molstruc.2020.128705)	2019/IF=2.463
35	Ashish Chhaganlal Gandhi, Tai-Yue Li, B. Vijaya Kumar, P. Muralidhar Reddy , Jen-Chih Peng, Chun-Ming Wu and Sheng Yun Wu	Room Temperature Magnetic Memory Effect in Cluster-Glassy Fe-doped NiO Nanoparticles	<i>Nanomaterials</i> 2020, 10(7), 1318, (https://doi.org/10.3390/nano10071318),	2020/IF=4.324
36	Srinivas Kunta, Ramesh Balaboina, Narasimha Swamy Thirukovela, Manda Srinivas, Ravinder Vadde, atyanarayana Mavurapu, P. Muralidhar Reddy and Chandra Sekhar Vasam	Synthesis Rh(III) Mononuclear Complexes of Polar Tertiaryphosphines for Aqueous Biphasic Catalysis	<i>J. Appl. Chem.</i> , 2019, 8 (2), 496-503	2019/IF=0.894
37	S. Siddappa, M. Radhika and P. Muralidhar Reddy	Zeolite-Encapsulated Zinc (II)-Amino Acid Complex: Synthesis and Spectroscopy	<i>J. Appl. Chem.</i> , 2019, 8 (3), 933-938	2019/IF=0.894
38	P. Ramesh, S. Purushotham Reddy, V. Srinivasa Rao and P. Muralidhar Reddy*	4H-Pyrimido[2,1-b]benzothiazole-3-Carboxamide Derivatives; Design, Synthesis, Biological Evaluation and Docking Studies	<i>J. Appl. Chem.</i> , 2019, 8(3), 1252 - 1263	2019/IF=0.894
39	P. Muralidhar Reddy & Nancy Maurya & Bharath Kumar Velmurugan,	Medicinal Use of Synthetic Cannabinoids—a Mini Review	<i>Curr Pharmacol Rep.</i> , 2019, 5(1), 1-13, (https://doi.org/10.1007/s40495-018-0165-y),	2019/IF=0.820
40	Karunakar Dasa, Bhaskar Saggella, Anil Kumar Marapaka, Karunakar Rao Kudle, Ramchander Merugu and P. Muralidhar Reddy	Synthesis, Characterization and in vitro Studies of Metal Complexes Derived from Isoxazole Schiff base	<i>J. Appl. Chem.</i> , 2019, 8(4), 1568 - 1577	2019/IF=0.894
41	Rohini Rondla, Ramesh Malikanti, and P. Muralidhar Reddy ,	Thermoreversible Fibrous Hydrogel of Benzene-Centered Tris-dodecylimidazolium Bromide: A Dual Role as Stabilizer and Directing Agent for Silver Dendrites	<i>ChemistrySelect</i> , 2019, 4, 8220–8224,	2019/IF=1.811

42	Pulabala Ramesh, Vankadari Srinivasa Rao, Yi-An Hong, P. Muralidhar Reddy,* and Anren Hu	Molecular Design, Synthesis, and Biological Evaluation of 2-Hydroxy-3-Chrysino Dithiocarbamate Derivatives	<i>Molecules</i> 2019 , 24(17), 3038, (https://doi.org/10.3390/molecules24173038),	2019/IF=3.267
43	M. S. Kumar, G. Maddala, M. Ambapuram, M. Subburu, J. R. Vaidya, S. N. Babu, P. Chetti, R. Mitty and Someshwar Pola	Cost-effective thiophene-assisted novel dopant free hole transport materials for efficient perovskite solar cell performance,	<i>Sustainable Energy Fuels</i> , 2020, 4, 4754–4767.	2020/IF=5.508
44	S. Bharadwaj, A. Tirupathi, N. P. Kumar, Someshwar Pola , Y. K. Lakshmi	Study of magnetic and magnetoresistance behaviour of $\text{La}_{0.67}\text{Sr}_{0.33}\text{MnO}_3\text{--CoFe}_2\text{O}_4$ composites	<i>Journal of Magnetism and Magnetic Materials</i> , 2020, 513, 167058	2020/IF=2.717
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46	S. Kumar, Someshwar Pola , C.-W. Huang, Md. M. Islam, S. Venkateswarlu, Y.-T. Tao,	Polysubstituted Hexa-cata-Hexabenzocoronenes: Syntheses, Characterization and Their Potential as Semiconducting Materials in Transistor Application	<i>Journal of Organic Chemistry</i> , 2019, 84, 8562.	2019/IF=4.335
47	V. Gugulothu, J. Ahemed, M. Subburu, B. Yadagiri, R. Mittal, Ch. Prabhakar, Someshwar Pola ,	Evolution of Physical and Photocatalytic Properties of New Zn(II) and Ru(II) complexes,	<i>Polyhedron</i> , 2019, 170, 412.	2019/IF=2.343
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49	S. P. Mydhili, B. Sireesha , and Ch. Venkata Ramana Reddy	Synthesis, Antioxidant, and Antibacterial Studies of Zn(II), Cd(II), and Hg(II) Complexes with 3-Formylpyridinethiosemicarbazone and Its N4-Methyl Analogue	<i>Russian Journal of General Chemistry</i> , 2019, Vol. 89, No. 5, pp. 1015–1022.	2020/IF=0.716
50	P. Nirmala Jyothi and B. Sireesha	DNA cleavage studies of Zn(II) complex with 1-acetyl-4-phenyl-3-thiosemicarbazide;	<i>J. Appl. Chem.</i> , 2019, 8 (3): 925-932.	2019/IF=0.89

51	P. Nirmala Jyothi and B. Sireesha	Equilibrium and antibacterial studies of vo(ii) and zn(ii) complexes with 1-propionyl-3- thiosemicarbazide	<i>Rasayan J. Chem.</i> , 2019, 12(3), 1530-1539	2019/IF=0.27
52	Naveen Reddy Pailla and Bhaskar Kuthati	Spectrophotometric determination of Clinidipine, Efavirenz, Prazosin drugs by using Folin-Ciocalteu Reagent	<i>International Journal of ChemTech Research</i> , 2020,13(3): 210-217. DOI= http://dx.doi.org/10.20902/IJCTR.2019.130318	2020/IF=0.33
53	Naveen Reddy Pailla and Bhaskar Kuthati	Spectrophotometric Determination Of Drugs And Pharmaceuticals By Using Folin-Ciocalteu Reagent	<i>World Journal of Pharmaceutical Research</i> , 2020, Volume 9, Issue 5, 1164-1178	2020
54	Nagula Narsimha, Palreddy Ranjithreddy, Jaheer Mohmed, P. Sujitha and Ch. Sarala Devi	Synthesis, characterization, DNA cleavage, docking and cytotoxic studies of novel nalidixic acid hydrazone and its CuII, NiII and CoII complexes	<i>J. Indian Chem. Soc.</i> , Vol. 96, March 2019, pp. 347-360	2019/IF =
55	Nagula Narsimha, Mohmed Jaheer, Palreddy Ranjith Reddy, Kunche Sudeepa, Ch. Sarala Devi	Spectro-analytical and in vitro biological studies of novel nalidixic acid hydrazone and its transition metal complexes	<i>Indian Journal of Chemistry</i> Vol. 58A, April 2019, pp. 436-445	2019/IF = 0.483
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57	Ravi Mudavath, Vuradi Ravi Kumar, B. Ushaiah, Nagula Narsimha, Kunche Sudeepa, Ch. Sarala Devi	Design, Synthesis, <i>In vitro</i> Anticancer, Antioxidant and Antibacterial activity; DNA/BSA Binding, Photocleavage and Docking studies of Cu(II) Ternary Metal Complexes,	DOI:10.1080/15257770.2019.1618470, <i>Nucleosides, Nucleotides and Nucleic Acids</i> .	2019IF = 1.167
58	A. Venkataramana Murthy, V.Narendar,N. Sampath Kumar, P. Aparna, A.K.D. Bhavani , F. Gautier, Sophie Barillé-Nion, Philippe Juin, Paul Mosset, René Grée, Nicolas Levoin,	Targeting PUMA/Bcl-xl interaction by new specific compounds to unleash apoptotic process in cancer cells	<i>European Journal of Medicinal Chemistry</i> , Vol. 162, 334-347, 2019	2019/IF = 4.833

59	Dabbugoddu Brahmaiah, Anagani Kanaka Durga Bhavani, Pasula Aparna, Nangunoori Sampath Kumar, Hélène Solhi, Rémy Le Guevel, Blandine Baratte, Sandrine Ruchaud, Stéphane Bach, Paul Mosset, René Grée,	Synthesis and biological studies of new quinazolines with ether functions in position 2	ARKIVOC, 96-107, 2019	2019/IF = 1.253
60	Jeevan Reddy Miryala, Mahesh Morthad and Satyanarayana Battu.	Green Synthesis Approaches of 2-Bromo-4-methyl thiazole-5-carboxamide derivatives as potent microbial agents, Molecular docking, DNA interaction and in vitro anti-cancer studies of square-planar	Asian Journal of Chemistry, vol.31, No.2 (2019), 297-302.	2019/IF = 0.141
61	Jeevan reddy Miryala, Anuj Tripathi, Chetti Prabhakar, Debajit Sarma, Someshwar Pola and Battu Satyanarayana.	Eco-friendly synthesis, crystal structures, photophysical properties and DFT studies of new N-arythiazole-5-carboxamides,	Journal of Molecular Structure, (Elsevier), Vol.1184, (2019), 193-199.	2019/IF = 2.011
62	RamaKrishna Munnaluria, Saikiran Reddy Peddia, Sree Kanth Sivan, Vijjulatha Manga*	Computational studies on N-phenyl pyrrole derivatives as MmpL3 inhibitors in Mycobacterium tuberculosis	Computational Biology and Chemistry 78 (2019) 81–94.	2019/IF = 1.331
63	Suresh Kasaboina a, Rajitha Bollu a, Venkatesh Ramineni , P. Mary Gomedhika, Kavitha Korra, Sai Roopika Basaboina, Uma Devi Holagunda , Lingaiah Nagarapu, Naresh Dumala , Paramjit Grover, Raju Bathini, M. Vijjulatha	Novel benzosuberone conjugates as potential anti-proliferative agents: Design, synthesis and molecular docking studies	Journal of Molecular Structure 1180 (2019) 355e362	2019/IF = 2.011
64	Krishnaiah Vaarla, Santosh Karnewar, Devayani Panuganti, Saikiran Reddy Peddi, Rajeswar Rao Vedula, Vijjulatha Manga, and Srigiridhar Kotamraju.	3-(2-(5-Amino-3-aryl-1H-pyrazol-1-yl)thiazol-4-yl)-2H-chromen-2-ones as Potential Anticancer Agents: Synthesis, Anticancer Activity Evaluation and Molecular Docking Studies	ChemistrySelect 2019, 4, 4324 – 4330.	2019/IF = 1.716

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67	D. Ashoka, E. V. L. Madhuria, , M. Sarasija, S. Sree Kanth, M. Vijjulatha , Akkiraju Anjini Gayatri, Someswar Rao Sagurthi, N. Sai Krishna	Synthesis of Biaryl Derivatives of Spirofurochromanone in Water and Their Anticancer Activity	<i>Russian Journal of General Chemistry</i> , 2019, Vol. 89, No. 10, pp. 2129–2135.	2019/IF = 0.643
68	V. Radhika · S. Sree Kanth P. Saikiran Reddy · M. Vijjulatha	Computational design, synthesis and evaluation of new sulphonamide derivatives targeting HIV-1 gp120	<i>Journal of Computer-Aided Molecular Design</i> 34, 39-54 (https://doi.org/10.1007/s10822-019-00258-0) 2020	2019/IF = 3.220
69	Sudhir Reddy Peddi, Saikiran Reddy Peddi, Sreekanth Sivan, Radhika Veerati and Vijjulatha Manga	Integrated molecular docking, 3D QSAR and molecular dynamics simulation studies on indole derivatives for designing new Pim-1 inhibitors	<i>Journal of Receptors and Signal Transduction</i> , https://doi.org/10.1080/10799893.2020.1713809 2020	2019/IF = 1.629
70	Prashanth Kumar Kolluri, Nirmala Gurrapu, N.J.P. Subhashini, Shravani Putta, Surya Sathyanarayana Singh, Tamalapakula Vani, Vijjulatha Manga	Design, synthesis of novel (Z)-2-(3-(4-((3-benzyl-2,4-dioxothiazolidin-5-ylidene) methyl)-1-phenyl-1H-pyrazol-3-yl)phenoxy)-N-arylacetamide derivatives: Evaluation of cytotoxic activity and molecular docking studies	<i>Journal of Molecular Structure</i> , 2020, Vol 1202, https://doi.org/10.1016/j.molstruc.2019.127300	2019/IF = 2.120
71	N. J. P. Subhashini · Kolluri Prashanth Kumar · Edigi Praveen Kumar · Putta Shravani Surya Sathyanarayana Singh	Design and synthesis of novel (Z)-5-((1,3-diphenyl-1H-pyrazol-4-yl)methylene)-3-((1-substituted phenyl-1H-1,2,3-triazol-4-yl)methyl)thiazolidine-2,4-diones: a potential cytotoxic scaffolds and their molecular modeling studies	<i>Molecular Diversity</i> , https://doi.org/10.1007/s11030-020-10093-3 2020	2019/IF = 2.229

	Tamalapakula Vani · Manga Vijjulatha			
72	Ravinder Dharavath, Nalaparaju Nagaraju, M. Ram Reddy, D. Ashok, M. Sarasija, M. Vijjulatha , Vani T, K. Jyothi and G. Prashanthi	Microwave-assisted synthesis, biological evaluation and molecular docking studies of new coumarin based 1,2,3-triazoles	<i>RSC Adv.</i> , 2020, 10, 11615	2019/IF = 3.049
73	S Mamidala, VS Mudigunda, SR Peddi, KK Bokara, V Manga , RR Vedula	Design and synthesis of new thiazoles by microwave-assisted method: Evaluation as an anti-breast cancer agents and molecular docking studies	<i>Synthetic Communications</i> , 1-14, 2020.	2019/IF = 1.796
74	Pulimamidi Rabindra Reddy, Merugu Kumara Swamy and Battu Satyanarayana	New copper(II) 2-(Quinolin-2-YI) Quinazolin-4(3H)-one complex and study of its DNA binding, antibacterial, docking and cytotoxic properties	<i>BAOJ Cancer Research & Therapy</i> 5(1) (2019), p064.	2019/IF =
75	K. R. Vijayapal Reddy and T. V. D. Prasad Rao*	Polyaniline sulfate salt ediated one-pot three-component synthesis of triheterocyclic 4 <i>h</i> -pyrimido[2,1- <i>b</i>]benzothiazole derivatives ;	<i>Heterocyclic Letters</i> , Vol. 9 No.1 35-39, 2019	2019/IF =
76	K. R. Vijayapal reddy and .T.V. D. Prasad rao*	Polyaniline sulfate salt catalyzed one-pot three-component synthesis of 2 <i>h</i> -indazolo[2,1- <i>b</i>]phthalazine-triones	<i>Heterocyclic Letters</i> , Vol. 9 No.3 289-294, 2019	2019/IF =
77	Gugulothu Yaku, Bandi Rajkumar and T. V. D. Prasad Rao*	Photo-Induced Synthesis of Silver Nanoparticles using, <i>Syzygium cumini</i> Fruit Peels Extract Characterization and Antibacterial Activity Studies.	<i>Journal of Applicable Chemistry</i> , 2019, vol 8 (2): 477-484	2019/IF = 1.211
78	D. Ashok , N. Nagaraju, Ravinder Dharavath, M. Ram Reddy, K. Ramakrishna and M. Sarasija	A Novel Method for Synthesis and their Antimicrobial Activity of 1 <i>H</i> -Tetrazole Based Flavones and Flavanone Derivatives under Ultrasonic, Microwave Irradiation Methods	<i>Asian Journal of Chemistry</i> (2019), 31 (7), 1495-1500.	2019/IF = 0.141
79	Ravi Guguloth, Ayodhya Dasari, Ashok Dongamanti , Sarasija Madderla, Kumari Lunavath Shanthi	Facile synthesis, characterization and enhanced catalytic reduction of 4-nitrophenol using NaBH ₄ by undoped and Sm ³⁺ , Gd ³⁺ , Hf ³⁺ doped La ₂ O ₃ nanoparticles	<i>Nano convergence</i> (2019), 6 (1), 12.	2019/IF = 3.324
80	Ashok, Dongamanti , Devulapally, Mohan Gandhi; Aamate, Vikas Kumar; Gundu, Srinivas; Adam, Shaik; Murthy, S. D. S.;	Novel pyrano [3,2- <i>b</i>]xanthen-7(2 <i>H</i>)-ones: Synthesis, antimicrobial, antioxidant and molecular docking studies	<i>Journal of Molecular Structure</i> (2019), 1177, 215-228.	2019/IF = 2.011

	Balasubramanian, Sridhar; Naveen, Baindla; Parthasarathy, Tigulla			
81	Ashok, Dongamanti; Kavitha, Rangu; Gundu, Srinivas; Sarasija, Madderla	Microwave-assisted synthesis and antimicrobial evaluation of 6-[3-aryl-1-phenyl-4',5'-dihydro[4,5'-bi-1H-pyrazol]-3'-yl]-2H-chromen-5-ols	<i>Journal of the Serbian Chemical Society</i> (2019), 84 (3), 237-244.	2019/IF = 0.977
82	D. Ravi Kumar, Syed Ismail Ahmad, Ch. Abraham Lincoln & D. Ravinder,	<i>Structural, optical, room-temperature and low-temperature magnetic properties of Mg-Zn nanoferrite ceramics</i>	<i>Journal of Asian Ceramic Societies</i> 7(1) (2019) 53-68	2019/IF = 0.589
83	K. S. Kumar , P. K. Naikawadi, R. Jatoth, R. Dandela	Bimetallic Cu/Pd-catalyzed three-component azide-alkyne cycloaddition/isocyanide insertion: synthesis of fully decorated tricyclic triazoles	<i>Org. Biomol. Chem.</i> , 2019, 17 , 7320–7324	2019/IF = 3.564
84	S. R. Meesa and P. K. Naikawadi, K. Gugulothu, K. S. Kumar	Catalyst and solvent switched divergent C–H functionalization: oxidative annulation of N-aryl substituted quinazolin-4-amine with alkynes	<i>Org. Biomol. Chem.</i> , 2020, 18 , 3032-3037.	2019/IF = 0.589
85	Raju Jannapu Reddy , Arram Haritha Kumari, Jangam Jagadesh Kumar and Jagadeesh Babu Nanubolu	Cs ₂ CO ₃ -Mediated Vicinal Thiosulfonylation of 1,1-Dibromo-1-Alkenes with Thiosulfonates: An Expedient Synthesis of (<i>E</i>)-1,2-Thiosulfonylethenes	<i>Adv. Synth. Catal.</i> 2019, 361, 1587–1591.	2019/IF = 5.451
86	Ravi Guguloth, Ayodhya Dasari, Ashok Dongamanti , Sarasija Madderla, Kumari Lunavath Shanthi	2Facile synthesis, characterization and enhanced catalytic reduction of 4-nitrophenol using NaBH ₄ by undoped and Sm ³⁺ , Gd ³⁺ , Hf ³⁺ doped La ₂ O ₃ nanoparticles	<i>Nano Convergence</i> , 2019, 4, 43-54.	2019/IF = 3.324
87	R. J. Reddy ,* J. J. Kumar and A. H. Kumari	Unprecedented Reactivity of beta-Iodovinyl Sulfones: An Efficient Synthesis of beta-Keto Sulfones and beta-Keto Thiosulfones	<i>Eur. J. Org. Chem.</i> , 2019, 3771-3775.	2019/IF = 3.029
88	R. J. Reddy ,* A. Shankar and A. H. Kumari	Efficient, Sequential One-Pot Approach for Diverse C3-Functionalized Imidazo[1,2- <i>a</i>]-pyridines Under Transition-Metal Free Conditions	<i>Asian J. Org. Chem.</i> , 2019, 8, 2269-2275.	2019/IF = 2.496
89	K. Ramaswamy, G. Ravi, P. Venkataswamy, V. Radha, N.R. Muni Ratnam, M. Vithal	Effect of ion (Ag ⁺ , N ₃ ⁻) doping on the photocatalytic activity of Ruddlesden-Popper type layered perovskite K ₂ Nd ₂ Ti ₃ O ₁₀	<i>Comptes Rendus Chimie</i> , 2019, 22, 667-677	2019/IF = 2.380

90	Perala Venkataswamy, Manasa Sunku, Ravi Gundeboina, Radha Velchuri and M. Vithal	Fabrication of Novel Ag/AgBr/Cs ₂ Nb ₄ O ₁₁ Ternary Composite for Visible-Light Driven Photocatalysis	<i>Catalysis Letters</i> , 2019, 149, 2332–2346	2019/IF = 2.320
92	M. Malathi, Kammara Vaishnavi, G. Ravi, Manasa Sunku and M. Vithal ,	Potassium Zirconium Oxalate: A novel precursor for the preparation of perovskite, pyrochlore and Nasicon type materials	<i>J solid State Chemistry</i> , 2019, 276, 133-138.	2019/IF = 2.291
93	Vimala Kanikireddy, K. Kanny, Y. Padma, Radha Velchri, Gundeboina Ravi, B. Jagan Mohan Reddy, and Muga Vithal ,	Development of alginate – gum acacia - Ag ₀ nanocomposites via green process for inactivation of foodborne bacteria and impact on shelf life of black grapes (<i>Vitis vinifera</i>)	<i>J. Appl. Polym. Sci.</i> 2019, 136, 47331.	2019/IF = 2.188
94	Ashok, Dongamanti , Devulapally, Mohan Gandhi; Aamate, Vikas Kumar; Gundu, Srinivas; Adam, Shaik; Murthy, S. D. S.; Balasubramanian, Sridhar; Naveen, Baidla; Parthasarathy, Tigulla	Novel pyrano [3,2-b]xanthen-7(2H)-ones: Synthesis, antimicrobial, antioxidant and molecular docking studies,	<i>Journal of Molecular Structure</i> , 2019, 1177, 215-228.	2019/IF = 2.123
95	Mydhili P. Sripathi, Sireesha Berely and Chittireddy Venkata Ramana Reddy	Computational Studies of 4-Formylpyridinethiosemicarbazone and Structural and Biological Studies of Its Ni(II) and Cu(II) Complexes	<i>Heteroatom Chemistry</i> , 2019, Article ID 3507837, 1-10.	2019/IF = 1.011
96	R. J. Reddy ,* J. J. Kumar, A. H. Kumari and G. R. Krishana	Pd-Catalyzed Annulation of β -Iodovinyl Sulfones with 2-Halophenols: A General Route for the Synthesis of 3-Sulfonyl Benzofuran Derivatives	<i>Adv. Synth. Catal.</i> 2020, 362, 1317-1322.	2020/IF = 5.451
97	D Ashok , MR Reddy, N Nagaraju, R Dharavath, K Ramakrishna, S Gundu, P. Shravani, M Sarasija,	Microwave-assisted synthesis and in vitro antiproliferative activity of some novel 1, 2, 3-triazole-based pyrazole aldehydes and their benzimidazole derivatives	<i>Medicinal Chemistry Research</i> , 2020, 29, 699-706	2020/IF = 1.720
98	D Ashok , MR Reddy, N Nagaraju, R Dharavath, K Ramakrishna, S Gundu, P. Shravani, M Sarasija	Microwave-assisted synthesis and in vitro antiproliferative activity of some novel 1, 2, 3-triazole-based pyrazole aldehydes and their benzimidazole derivatives	<i>Medicinal Chemistry Research</i> , 2020, 29, 699-706	2020/IF = 1.720

99	D Ashok , MR Reddy, R Dharavath, K Ramakrishna, N Nagaraju and M Sarasija	Microwave-assisted synthesis of some new 1,2,3-triazole derivatives and their antimicrobial activity	<i>Journal of Chemical Sciences</i> , (2020), 132, 1-9.	2020/IF = 1.490
100	M. Raghavendera, A. Kishore Kumarb, V. Sunithaa, T. Vishnuc , and P. Jalapathi	Synthesis and Cytotoxicity of Chalcone Based 1,2,3-Triazole Derivatives	<i>Russian Journal of General Chemistry</i> , 2020, Vol. 90, No. 4, pp. 1–6., 2020.	2020/IF=0.716
101	M. Nagamania , P. Jalapathia *, B. Shankara , M. Neelammaa , and T. M. Krishna	An Efficient Oxidative Difunctionalisation of 2-Amino-2H-chromene and Antimicrobial Activity of the Synthesized Tetrahydrochromene Derivatives	<i>Russian Journal of General Chemistry</i> , 2019, Vol. 89, No. 5, pp. 998–1002., 2019.	2020/IF=0.716
102	Guguloth Vijaya Charan and Tirukova Manjula	An Efficient, Green synthesis of Ethyl/Methyl 4-(3-Aryl-1Phenyl-1H-Pyrazol-4-yl)-6-Methyl-2-oxo-1,2,3,4-Tetrahydropyrimidine-5-Carboxylates	<i>International Journal of ChemTech Research CODEN (USA): IJCRGG</i> , ISSN: 0974-4290, ISSN(Online):2455-9555 Vol.12 No.06, pp 134-138, 2019	2019/IF=0.47
103	Vijayacharan Guguloth , Battu Satyanaryana*	Stable, reusable MoO ₃ /ZrO ₂ solid acid catalyst for the synthesis of Diphenylmethane via Friedel-Craft alkylation under solvent free condition.	<i>Heterocyclic Letters</i> 9: iss.-4 (2019), 417- 426	2019
104	C. Shankaraiah, V. Gangadhar, M. Vithal , G. Prasad	<i>Synthesis and Impedance studies of potassium bismuth tri phosphate electrolyte</i>	Materials Today: Proceedings11 (2019) 1024–1029	(IF) – NA
105	K. Ramaswamy, G. Ravi, P. Venkataswamy, V. Radha, N.R. Muniratnam, M. Vithal	<i>Effect of ion (Ag⁺, N³⁻) doping on the photocatalytic activity of Ruddlesden-Popper type layered perovskite K₂Nd₂Ti₃O₁₀</i>	Comptes Rendus Chimie, 2019, 22, 667-677	Impact Factor : 3.117
106	S. Manasa, G. Ravi, P. Venkataswamy, K. Vaishnavi and M. Vithal	<i>Carbon nanospheres supported visible-light-driven ZnSb₂O₆: Synthesis, Characterization and photocatalytic degradation studies</i>	SN applied Sciences , 1 (2019) 1046-1057	Impact Factor – 2.8

107	Vasanthi Pillay, Gundeboina Ravi and Vithal Muga	<i>Enhancement of photocatalytic degradation of an organic pollutant by WO₃ nanopowders: carbon doping</i>	Indian Journal of Chemistry, 58A (2019) 763-771	IF- 0.412
108	Perala Venkataswamy, Manasa Sunku, Ravi undeboina, Radha Velchuri and M. Vithal	<i>Fabrication of Novel Ag/AgBr/Cs₂Nb₄O₁₁ Ternary Composite for Visible-Light Driven Photocatalysis</i>	Catalysis Letters, 2019, 149, 2332–2346	IF : 2.936
109	M. Malathi, Kammara Vaishnavi, G. Ravi, Manasa Sunku and M. Vithal	<i>Potassium Zirconium Oxalate: A novel precursor for the preparation of perovskite, pyrochlore and Nasicon type materials</i>	Journal of Solid State Chemistry 2019, 276, 133-138	IF – 3.656
110	Sreenu K, P. Venkataswamy, G. Ravi, CH. Sudhakar Reddy, B. Jaganmohan Reddy, and M. Vithal	<i>Enhancement of photocatalytic activity of sodium bismuth titanate by doping with copper, silver and tin ions</i>	Zeitschrift für anorganische und allgemeine Chemie, 2019, 645, 529–536	IF : 1.414
111	Gundeboina Ravi and M. Vithal SN Applied Sciences	<i>Ion exchange synthesis of Ag⁺ incorporated LiAlO₂ and its application in photodegradation of organic dyes.</i>	2019, 1, 164	IF – 2.8
112	Gundeboina Ravi, Srinivas Mamidi, Sreenu K, Pandiri Manjula, Kammara Vaishnavi, M. Vithal	<i>Layered Na₂W₄O₁₃ and its Cation/anion doped analogues for the treatment of polluted water.,</i>	Flat Chem., 2019, 13, 1–7	IF : 5.829
113	Vimala Kanikireddy, K. Kanny, Y. Padma, Radha Velchuri, Gundeboina Ravi, B. Jagan Mohan Reddy, and Muga Vithal,	<i>Development of alginate – gum acacia - Ag⁰ nanocomposites via green process for inactivation of foodborne bacteria and impact on shelf life of black grapes (Vitis vinifera)</i>	J. Appl. Polym. Sci. 2019, 136, 47331	IF : 3.057

List of Publications of Department of Chemistry: 2018-2019

Sl. No.	Author	Title	Publication type	ISSN no./Year of Publication/IF
	Name of Author(s) in the format Last name, First name, Middle name	Full title of the article / Chapter in Book / Book	Journal Article / Book / Book Chapter	YYYY
1	Sravani Akula, Swapna Kaamasani, SreeKanth Sivan, Vijjulatha Manga , Dashavantha Reddy Vudem, Rama Krishna Kancha.	Computational analysis of epidermal growth factor receptor mutations predicts differential drug sensitivity profiles towards kinase inhibitors	J Thorac Oncol. 2018 May; 13(5):721-726	2018/IF = 12.46
2	Srilata Ballu, Ramesh itteboina, Sree Kanth Sivan, Vijjulatha Manga*	Rational Design of Methicillin Resistance Staphylococcus aureus inhibitors through 3D-QSAR, molecular Docking and molecular dynamics simulation	Computational Biology and Chemistry 73, 95 - 104	2018/IF = 1.412
3	Saikiran Reddy Peddi, Nihaya Abdulsattar Mohammed, Ammar Adil Hussein, Sree Kanth Sivan, Vijjulatha Manga*	Multiple receptor conformation docking, dock pose clustering and 3D QSAR driven approach exploring new HIV-1 RT inhibitors	Structural Chemistry	2018/IF = 2.019
4	Rama Krishna Munnaluri and Vijjulatha Manga*	In silico Quest Guided by Physico-chemical Descriptors of Bedaquiline for New Scaffolds with Potential Inhibitory Capacity Against Homology Model of Mycobacterium F1F0 ATP Synthase,	Asian J Chem. 30(4), 21145-53	2018 /IF = 0.14
5	Srilatha Ballu, Ramesh Itteboina, Sree Kanth Sivan & Vijjulatha Manga	Structural insights of Staphylococcus aureus FtsZ inhibitors through molecular docking, 3D-SAR and molecular Simulations	Journal of receptor and signal Transduction, 38(1), 61-70.	2018 /IF = 2.277

6	Bhookya Shankar, Pochampally Jalapati, Balabadra SaiKrishna, Shyam Perugu Vijjulatha Manga	Synthesis, ant-microbial activity of some novel substituted (5-(3-(1 <i>H</i> -benzo[d]imidazole-2-yl)-4-hydroxybenzyl)benzofuran-2-yl)(phenyl)mentanone analogs	Chemistry Central Journal 12:1	2018/IF = 2.442
7	Dongamanti Ashok, Srinivas Gundu, Vikas Kumar Aamate, Mohan Gandhi Devulapally, Raju Bathini, Vijjulatha Manga	Dimers of coumarin-1,2,3-triazole hybrids bearing alkyl spacer: Design, microwave-assisted synthesis, molecular docking and evaluation as antimycobacterial and antimicrobial agents	Journal of Molecular structure 1157, 312-321.	2018/IF = 2.011
8	Sonyanaik Banoth, Sakram Boda, Shyam Perugu, SaiKrishna Balabadra, Vijjulatha Manga	Design, synthesis, biological evaluation and in silico molecular docking studies of novel benzochromeno[2,3- <i>d</i>]thiazolopyrimidine derivatives	Res Chem Intermed.	2018/IF = 1.674
9	Srilatha Ballu, Ramesh Itteboina, Sree Kanth Sivan, Vijjulatha Manga*	Pharmacophore modeling, 3D-QSAR, docking and molecular dynamic simulations on topoisomerase IV inhibitors of wild type <i>Staphylococcus aureus</i>	Struct Chem	2018/IF = 2.019
10	Ramesh Gondru Saikiran Reddy Peddi Vijjulatha Manga Manjulatha Khanapur Rajitha Gali Narsimha Sirassu Rajitha Bavantula	One-pot synthesis, biological evaluation and molecular docking studies of fused thiazolo[2,3- <i>b</i>]pyrimidinone-pyrazolylcoumarin hybrids	Molecular Diversity	2018/IF = 2.229
11	Saikiran Reddy Peddi & Sree Kanth Sivan & Vijjulatha Manga*	Discovery and design of new PI3K inhibitors through pharmacophore-based virtual screening, molecular docking, and binding free energy analysis	Struct Chem	2018/IF = 2.019
12	Lingaiah Boddu, Ashok Kumar Pagudala, Durgaiah Gandamalla, Saikrishna Balabadra, Vijjulatha Manga , Narsimha Reddy Yellu , Subhashini N.J.P	Synthesis, anticancer activity and docking studies of N-phenyl-2-(2-((4-phenyl piperazin-1-yl) methyl)-1 <i>H</i> -benzo [d] imidazol-1-yl)acetamides,	Journal of Molecular Structure 1166 (2018) 362-368.	2018/IF = 2.011

13	Saikiran Reddy Peddi, Sree Kanth Sivan & Vijjulatha Manga*	Molecular dynamics and MM/GBSA-integrated protocol probing the correlation between biological activities and binding free energies of HIV-1 TAR RNA inhibitors	Journal of Biomolecular Structure and Dynamics, 2018 36(2), 486-503.	2018/IF = 4.986 (Cited by 10)
14	Janaiah Chevula, Saikrishna Balabadra, Sree Kanth Sivan and Vijjulatha Manga*	A Quest for New Antimalarial Agents with Improved Specificity Guided by Molecular Docking, 3D QSAR and Molecular Dynamics Simulation Studies	Asian J Chem; Vol. 30, No. 9 (2018), 1944-1952.	2018/IF = 0.14
15	RamaKrishna Munnaluri ^a , Saikiran Reddy Peddi ^a , Sree Kanth Sivan, Vijjulatha Manga*	Computational studies on N-phenyl pyrrole derivatives as MmpL3 inhibitors in Mycobacterium tuberculosis	Computational Biology and Chemistry 78 (2019) 81–94.	2018/IF = 1.331
16	Suresh Kasaboina, Rajitha Bollu, Venkatesh Ramineni ,P.Mary Gomedhika, Kavitha Korra, Sai Roopika Basaboina, Uma Devi Holagunda a, Lingaiah Nagarapu, Naresh Dumala , Paramjit Grover, Raju Bathini, M. Vijjulatha	Novel benzosuberone conjugates as potential anti-proliferative agents: Design, synthesis and molecular docking studies	Journal of Molecular Structure 1180 (2019)	2019/IF = 2.011
17	Krishnaiah Vaarla, Santosh Karnewar, Devayani Panuganti, Saikiran Reddy Peddi, Rajeswar Rao Vedula, Vijjulatha Manga , and Srigiridhar Kotamraju	3-(2-(5-Amino-3-aryl-1H-pyrazol-1-yl)thiazol-4-yl)-2H-chromen-2-ones as Potential Anticancer Agents: Synthesis, Anticancer Activity Evaluation and Molecular Docking Studies	ChemistrySelect 2019, 4, 4324 –4330.	2019/IF = 1.505
18	Ramesh Itteboina, Srilata Ballu, Sree Kanth Sivan & Vijjulatha Manga	Molecular docking, 3D-QSAR, molecular dynamics, synthesis and anticancer activity of tyrosine kinase 2 (TYK 2) inhibitors,	Journal of Receptors and Signal Transduction, 38:5-6, 462-474,	2019/IF = 2.2
19	CH B Praveena Devi, K Vijay, B Hari Babu, Syed Farooq Adil, M Mujahid Alam, M Vijjulatha , Mohd Bismillah Ansari	CuSO ₄ /sodium ascorbate catalysed synthesis of benzosuberone and 1,2,3-triazole conjugates: Design, synthesis and in vitro anti-proliferative activity	Journal of Saudi Chemical Society 2019	2019/IF = 2.759

20	N. J. P. Subhashini, B. Bhadraiah, P. Janaki, Gattu Sridhar,	An Alternative Total synthesis of Patulolide A	Synthetic communications, 2018, 48(5), pp496-499	2018/IF = 1.377
21	Sravanthi K , Snehalatha P . N. J. P. Subhashini	Microwave assisted Green synthesis of pyrazole, 1, 2, 3- triazole based novel benzohydrazones and their antibacterial activities	Journal of Heterocyclic Chemistry, 2018, 55(2) pp 508-516.	2018/IF = 1.251
22	N. J. P. Subhashini , Y Aparna, LN Sharada, Sivan Sreekanth	Synthesis, Characterization, Molecular docking and antimicrobial activity of new arylidene- substituted imidazole.	Russian Journal of General chemistry, 2018 (In Press).	2018/IF = 0.643
23	Nayeem Pasha ^{a*} , P Krishna Kumari ^b , N Vamsikrishna ^a , N Lingaiah ^b , N. J. P. Subhashini^a & Shivaraj ^{a*}	Conversion of fructose into 5-hydroxymethylfurfural over mesoporous-ZrO ₂ -phosphomolybdic acid nanocomposite catalysts,	Indian Journal of Chemistry, Vol. 58A, March 2019, pp. 313-320.	2019/IF = 0.483
24	S. Sandhya Rani, Shivaraj [*] , N. J. P. Subhashini ,	Synthesis of novel 1,3-indanedione derivatives and pharmacological evaluation as anti microbial, anti oxidative agents.	International Journal of Pharmaceutical Sciences and Research, 2018, 10 (6), 2838-2844	2018/IF =
25	S. Sandhya rani, shivaraj, Subhashini N. J. P.	Design, synthesis and pharmacological evaluation of novel 1,3-indanedione derivatives	Indo american journal of pharmaceutical science, 2018, 5 (13), 1969-1979.	2018/IF =
26	N.J.P. Subhashini , E. Praveenkumar, Gurrapu. Nirmala, Vishwanadham Yerragunta,	Design and synthesis of imidazolo-1,2,3-triazoles hybrid compounds by microwave-assisted method: Evaluation as an antioxidant and antimicrobial agents and molecular docking studies	Journal of Molecular Structure, 2018, 1180, 618-628	2018/IF = 2.12
27	Lingaiah Boddu, Ashok Kumar Pagudala , Durgaiah Gandamall, ,Saikrishna Balabadra, Vijjula	Synthesis, anticancer activity and docking studies of N-phenyl-2-(2- ((4-phenyl piperazin-1-yl) methyl)-1H-benzo [d] imidazol-1-yl) acetamides	Journal of Molecular Structure, 2018, 1166, 362-368	2018/IF = 2.12

	tha Manga, Narsimha Reddy Yellu, Subhashini N. J. P.			
28	N. J. P. Subhashini , Y Aparna, LN Sharada, Sivan Sreekanth	Synthesis, Characterization, Molecular docking and antimicrobial activity of new arylidene- substituted imidazole.	Russian Journal of General chemistry, 2018	2018/IF = 0.643
29	N. J. P. Subhashini , B.Bhadraiah, P.Janaki	Synthesis and Biological Evaluation of <i>N</i> -Arylpyrazole-Imidazolopyridine Derivatives as Anticancer Agents	Russian Journal of General Chemistry, 2019	2019/IF = 0.643
30	Lingaiah Boddu and N. J. P. Subhashini*	Synthesis and antimicrobial activity of 2-phenyl-1, 2, 3, 4-tetrahydro benzo [4, 5] imidazo [1,2 <i>a</i>] pyrazine derivatives	Russian Journal of General chemistry, 2019 (In press).	2019/IF = 0.643
31	Y.Aparna ^a , Prof LN Sharada ^{a*} , Dr N. J. P. Subhashini^a , G.Nirmala ^a , Sivan Sreekanth ^b	Synthesis, Characterization, Antimicrobial evaluation and Molecular docking Studies of novel bis-1,2,3-triazol-1H-4-yl-substituted aryl benzimidazole-2-thiols	Journal of Heterocyclic Chemistry, 2019 (In press).	2019/IF = 1.241
32	E. Praveenkumar, Nirmala Gurrapu, Prashanth Kumar kolluri, Vishwanadham Yerragunta, N. J. P. Subhashini ,	Synthesis, anti-diabetic evaluation and molecular docking studies of 4-(1-aryl-1H-1,2,3-triazol-4-yl)-1,4-dihydropyridine derivatives as novel 11- β Hydroxysteroid dehydrogenase-1 (11 β -HSD1) inhibitors.	Bioorganic Chemistry, 2019 (In press) (Available online).	2019/IF = 3.93
33	Kolluri Prashanth Kumar ^a , G. Nirmala ^a , E. Praveen kumar ^a , N. J. P. Subhashini ^{a*} P. Shravani ^b , Surya Satyanarayana Singh	Design, synthesis of (Z)-3-benzyl-5-((1-phenyl-3-(3-((1-phenyl-1 H-1,2,3- triazol-4-yl)methoxy)phenyl)-1 H-pyrazol-4-yl)methylene)thiazolidine-2,4- dione analogues as potential cytotoxic agents		2019/IF = 1.241
34	Akhila Mettu, Venu Talla, Deepthi Madanlal Bajaj, Subhashini Naikal James Prameela	Design, synthesis and molecular docking studies of novel pyrazolyl 2-aminopyrimidine derivatives as HSP90 inhibitors	Journal of Heterocyclic Chemistry, 2019 (In press).	2019/IF = 2.145
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53	R. Gade, J. Ahemed, K. L. Yanapu, S. Y. Abate, Y.-T. Tao and Someshwar Pola	Photodegradation of Organic Dyes and Industrial Wastewater in the Presence of Layer-type Perovskite Materials under Visible Light Irradiation	New J. Chem., 2018,	2018/IF =
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115	D. Ashok , N. Nagaraju, Ravinder Dharavath, M. Ram Reddy, K. Ramakrishna and M. Sarasija	A Novel Method for Synthesis and their Antimicrobial Activity of 1H-Tetrazole Based Flavones and Flavanone Derivatives under Ultrasonic, Microwave Irradiation Methods	Journal of Molecular Structure (2018), 1157, 312-321.	2019/IF = 0.141
116	Ravi Guguloth, Ayodhya Dasari, Ashok Dongamanti , Sarasija Madderla, Kumari Lunavath Shanthi	Facile synthesis, characterization and enhanced catalytic reduction of 4-nitrophenol using NaBH ₄ by undoped and Sm ³⁺ , Gd ³⁺ , Hf ³⁺ doped La ₂ O ₃ nanoparticles	Molecular Diversity (2018), 22, 57-70.	2019/IF = 3.324

117	Ashok, Dongamanti, Devulapally, Mohan Gandhi; Aamate, Vikas Kumar; Gundu, Srinivas; Adam, Shaik; Murthy, S. D. S.; Balasubramanian, Sridhar; Naveen, Baindla; Parthasarathy, Tigulla	Novel pyrano [3,2-b]xanthen-7(2H)-ones: Synthesis, antimicrobial, antioxidant and molecular docking studies	Russian Journal of General Chemistry (2018), 88, 3, 580–586	2019/IF = 2.011
118	Ashok, Dongamanti; Kavitha, Rangu; Gundu, Srinivas; Sarasija, Madderla	Microwave-assisted synthesis and antimicrobial evaluation of 6-[3-aryl-1-phenyl-4',5'-dihydro[4,5'-bi-1H-pyrazol]-3'-yl]-2H-chromen-5-ols	Synthetic communications (2018), 28, 1, 163–168.	2019/IF = 0.977
119	Dr. Jyothi Yadagiri Dr. Hari Prasad Reddy Kannapu Prof. Young-Woong Suh Prof. Veera Somaiah Puppala Dr. Seetha Rama Rao Kamaraju Dr. David Raju Burri	An Efficient Catalytic Approach for Epoxidation of Styrene over Activated Marble Powder,		2018/IF = 1.505
120	Jyothi Yadagiri, Kumara Swamy Koppadi, Siva Sankar Enumula, Venkateshwarlu Vakati, Seetha Rama Rao Kamaraju, David Raju Burri, Puppala Veera Somaiah	Ni/KIT-6 catalysts for hydrogenolysis of lignin-derived diphenyl ether	RSC Advances (2018), 8 (30), 16997-17007.	2018/IF = 1.2
121	Reshma, Sandupatla Raju and Puppala Veerasomaiah	Synthesis and Characterization of PEG-Ag Nanoparticles: Investigation of their Antibacterial Properties	Molecular Diversity (2018), 22 (4), 769–778.	2018/IF =
122	V. Sunitha, A.Kishore Kumar, Ch. Abraham Lincoln, P. Jalapathi, V. Gopal Reddy	Synthesis and Antibacterial Evaluation of Benzofuran Based 3,5-Disubstituted Isoxazoles	Russian Journal of General Chemistry (2018), 88, 3, 566–572.	2018/IF = 0.643

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124	Ch. Anjaiah, M. Nagamani, Ch. Abraham Lincoln, D. Ashok	Microwave-Assisted Synthesis and Antimicrobial Activity of 3-(Arylsulfanyl)-4-hydroxy-2H-chromen-2-ones	RSC Advances (2018), 8, 38673-38680.	2018/IF = 0.643
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127	Gurrapu R Poshala R Kuthati B	Green synthesis of bis(indolyl)methane derivatives using PEG-400	Russian Journal of General Chemistry (2018), 88 (6), 1219-1223.	2018/IF = 0.14
128	Perala Venkataswamy, Damma Devaiah, Deboshree Mukherjee, Muga Vithal , Benjaram M. Reddy	<i>ZnO-Nanoparticles Decorated On CeO₂ Nanorods: An Efficient Catalyst For The Co Oxidation</i>	Catalysis in Green Chemistry and Engineering	2018, 1, 293-306 IF – Not Available
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