

FORMAT –B

To be filled by **Head** of the Department of Campus / Constituent Colleges
OSMANIA UNIVERSITY
102 Annual Report for the Year 2020 – 2021
(01.04.2020 to 31.03.2021)

1. Name of the Department : **CHEMISTRY**
2. Name of the College : **University College of Science**
3. Name of the Head with Qualification : **Prof. U. Umesh Kumar, M.Sc., Ph.D**
- 4 Brief Report on Academic and Research aspects during the year (about 2 pages on each item)**
 - 4.1 Academic Schedule of UG and PG courses - **Common Schedule of University is followed**
 - 4.2 **Introduction of new courses and updating syllabi:**
 - 4.4 MoUs / Collaboration with National / International institutions –None-
 - 4.6 Research projects –

Name of the Investigator	Funding agency	Amount sanctioned	Duration	Project status
Dr Raju Jannapureddy	CSIR-EMR-II	Rs. 27,80,000	2018-21	Ongoing
Dr Raju Jannapureddy, (Mentor)	DST-WOS-A	Rs. 23,80,140	3 years	Ongoing
Dr. P. Muralidhar Reddy, Co-PI	Buddhist Tzu Chi Medical Foundation & Tzu Chi University, Hualien, Taiwan	Rs. 29,30,838/-	2020-22	Ongoing
Dr. P. Muralidhar Reddy, Co-PI	TDTU, Vietnam	Rs. 29,25,882/-	2020-22	Ongoing
Dr K Shivakumar	CSIR	Rs. 29,16,756	2018-21	On going
Dr K Shivakumar	CSIR	Rs. 30,20,157	2019-22	On going
Prof D Ashok	UGC-BSR Faculty Fellowship	Rs 33 Lakhs	2019-22	On going
Prof M Vijjulatha	DST SERB Empowerment and Equity Opportunities for Excellence in Science	Rs. 42 Lakhs	2019-23	Ongoing
Prof M Vijjulatha	CSIR	Rs. 21,80,400	2019-23	Ongoing

Prof M Vijjulatha	DBT-BIRAC COVID-19 Research Consortium	Rs. 45,00,000	2019-21	Ongoing
Dr. Someshwar Pola, Co-PI	DRDO-DRML	Rs. 15,71,570/-	2021-24	Ongoing

Consumable grants sanctioned for individual faculties under OU DST-PURSE and UGC-UPE-FAR Programme

Name of PI	Grants allotted (DST-PURSE) (in Rupees, 2019 - 20)	Grants allotted UGC-UPE-FAR (in Rupees, 2019 - 20)
Prof. U. Umesh Kumar	1, 00, 000/-	
Prof. B. Manohar	1, 00, 000/-	
Prof. P. Leelavathi	1, 00, 000/-	
Prof. M. Vijjulatha	1, 00, 000/-	
Prof. A.K.Durga Bhavani	1, 00, 000/-	
Prof. P. Vijay Kumar	1, 00, 000/-	
Prof. J. Ramchander	1, 00, 000/-	
Dr. G. Vijayacharan	1, 00, 000/-	
Dr. P.V. Anantha Lakshmi	1, 00, 000/-	
Dr. D.A.Padmavathi	1, 00, 000/-	
Dr. A. Hari Padmasri	1, 00, 000/-	
Dr. P. Saritha Reddy	1, 00, 000/-	
Dr. B. Sireesha	1, 00, 000/-	
Dr. P. Jalapathi	1, 00, 000/-	
Dr. P. Muralidhar Reddy	1, 00, 000/-	
Dr. P. Someshwar	1, 00, 000/-	
Dr. K. Shiva Kumar	1, 00, 000/-	
Dr. Raju Jannapu Reddy	1, 00, 000/-	

4.7 Academic distinctions / reputation of the Department

- The Department received grants from various funding agencies such as UGC, UPE, DST-FIST, CSIR etc.
- It is a Nodal Centre for facilitating Ph.D. Programme in Chemistry for candidates from IICT, Dr. Reddy's Laboratory Pvt. Ltd., DRDL, DMRL, Mylan Laboratories, Hyderabad etc. due to low cost, simple procedures and above all the facilitating attitude of the Dean's office and The Department of Chemistry.

4.8 Conduct of Seminars / Workshops / Training Programs

S.No.	Title of conference/Seminar/Workshop	Date	Funding Agency
1	Online quiz CHEMCOGNIZANCE	June 2020	
2	International webinar “Heterogeneous Catalysis: Rudiments & Industrial Relevance”	13th July 2020	
3	National webinar Role of Chemist in COVID 19 Pandemic an Interactive session with Distinguished Alumni of Chemistry	1 st Aug’2020	
4	International webinar lectures on “Talk to your Peer”	29 th Aug’2020	
5	International webinar on Recent Advances in Organic Synthesis & Clinical Trial Process for Drug Approval	3 rd Aug’2020	
6	2 Day International Webinar on Real World Applications of Nanomaterials	4 th & 5 th Aug’2020	
7	Two-day National webinar on Online Teaching Tools for the faculty-Live Sessions	5 th & 6 th Aug’2020	
8	National Webinar “Special lecture Series in Chemistry”	24 th – 28 th Aug’2020	

4.9 Journals published by the University departments / faculty and Books published by the Publication Division of the University / other publishers –NIL-

4.10 Journals published by the department / faculty and Books published: -NIL-

4.11 Endowment lectures organized during the year –NIL-

4.12 Development and use of e-learning packages / tools

- Use of software programmes – Arrange Lab, Hyperchem, chemaxon etc.
- Reference work by availing internet facilities.
- Use of Microsoft word, excel and power point etc. for documentation.
- Molecular Modeling Using Open Source Software’s – Manual (For Beginners)
Prof. M. Vijjulatha, Dr. S. Sree Kanth and Dr. S. Gururaj.

4.13 Best practices in teaching and research

- Demonstration through Models.
- Power point presentation of a topic after completion of teaching of a course.
- Conducting seminars.
- Arranging Guest Lectures.
- Illustration of Scientific exhibits.
- Assignments in Course works
- Tours to industries viz., Hetero Drugs etc and Institutions such as ARCI

5- Brief Report on Contribution of the Teaching Staff (about 2 pages on each item)

5.1 Research papers published in ISSN Journals and Impact factor & citation index analysis: (Pls see enclosed **Annexure I**); No. of Research papers published: **106**

H-index of the Teachers

S.No.	Name of the Faculty	H-index
1	Prof Shivaraj	13
2	Prof. U. Umesh Kumar	04
3	Prof P Leelavathi	06
4	Prof B Manohar	08
6	Prof M Vijjulatha	13
7	Prof A K D Bhavani	06
8	Dr G Vijaya Charan	04
9	Dr P V Ananthalakshmi	08
10	Dr NJP Subhashini	15
11	Dr D A Padmavathi	06
12	Dr A Hari Padmasri	19
13	Dr. P. Jalapathi	NA
14	Dr. P. Muralidhar Reddy	23
15	Dr P Someshwar	15
16	Dr Raju J Reddy	18
17	Dr K Shivakumar	19
18	Prof Ch Saraladevi	07
19	Prof D Ashok	14
20	Dr. P. Saritha Reddy	05
21	Prof. M. Vithal	24

5.2 Number of books published with ISBN reference & citation index analysis

1. Molecular Modeling Using Open Source Software's – Manual (For Beginners) Prof. M. Vijjulatha, Dr. S. Sree Kanth and Dr. S. Gururaj.
2. Dr D A Padmavathi authored Chapters in B.Sc III semesters, Telugu Academy publication English version
3. Prof. P Leelavathi is the Co-author of Telugu Academy, TS , Textbook for B,Sc. VI semester. (ISBN : 978-81-8180-560-7)
4. Prof. P Leelavathi is the Author of Monograph on Monograph on Organic Synthesis-A Strategic Approach-2021, Telugu Academy, ISBN : 978-81-8180-674-1
5. Prof. P Leelavathi is the Co-author, Telugu Academy, TS ISBN : 978-81-8180-560-7, Textbook for B,Sc. VI semester, (Telugu medium) 2020.
6. Prof. P Leelavathi is the Co-author , Telugu Academy, TS ISBN : 978-81-8180-723-6, Textbook for B,Sc. II semester, 2021.
7. Perovskite and Piezoelectric Materials (ISBN 978-1-78985-666-8) Book edited by: Dr. Someshwar Pola, Chapter title: Significant Role of Perovskite Materials for Degradation of Organic Pollutants.
8. Dr. P. Muralidhar Reddy authored Chapters in “A text book of Chemistry – Vol.6 (B.Sc III year, Semester-VI, Paper-VII); Edition 2020, Kedar Nath Ram Nath Publishers, Meerut, India, ISBN: 81-9427-661-6”.

9. A text book of Chemistry (For B.Sc II year, Semester-IV, Paper-VI); Edition 2021, Divya Lakshmi Publishers & Distributors, Lohia Nagar, Meerut-25001 (UP), India, ISBN: 9-788195-238446
10. Highly Chemo Selective Oxidation of Alcohols to Carbonyl Compounds, Author ; Rajasekhara Reddy Sabbasani, Shiva Kumar K, ISBN 978-620-3-02856-0, Publisher: LAP LAMBERT Academic Publishing.
11. Dr D A Padmavathi, Chapter-B.Sc semester 1V (Both telugu and English medium), Theories of bonding in metals, 2021, Telugu Academy, TS.
12. Dr D A Padmavathi, Chapter-B.Sc semester III (Both telugu and English medium), Evaluation of analytical data, 2021, Telugu Academy, TS
13. Dr D A Padmavathi, Chapter-B.Sc semester V (Both telugu and English medium), Evaluation of analytical data, 2021, Telugu Academy, TS

5.3 Number of patents applied for and sanctioned during the year: -

5.4 Consultancy ventures and income earned: -nil-

5.5 Distinctions/honours/awards won by the faculty

1. **Prof. Shivaraj** appointed as Executive member of Telangana State Council of Higher Education.
2. **Prof. Shivaraj** appointed as Member, National Monitoring Committee for Education of SCs, STs and Persons with Disabilities by MHRD, GoI, New Delhi, India.
3. **Prof. Shivaraj** appointed as Boards of Governors of NIPER, Hyderabad, India
4. **Prof. Shivaraj** appointed as Members of the University Grants Commission (UGC), New Delhi, India
5. **Dr. P. Muralidhar Reddy** elected as member **Toxicology and Biomedicine Research Group**, Faculty of Applied Sciences, **Ton Duc Thang University**, Ho Chi Minh City, **Vietnam**
6. **Dr. P. Muralidhar Reddy** received Seva Ratna Award 2020, for Outstanding Individual Achievements & Distinguished Service to the Nation, on 26th January, 2020, by Organization by Youth for Social Transformation and Environmental Recoup (OYSTER) (A Registered NGO:442/09), Telangana, India.
7. **Dr. P. Muralidhar Reddy** received the Best Paper Award at NCPCM-2020
8. **Dr. P. Muralidhar Reddy** received “MOTHER TERESA GOLD MEDAL AWARD”, for “National Economic Growth through Individual Contribution” in various fields of Science, Medicine, Research, Industry and Social Service to strengthen India’s unity and economic development on 22nd May 2021 by Global Economic Progress & Research Association (Registration No. 283, Act XXVII of 1975), Tamil Nadu, India.
9. **Dr. Raju Jannapu Reddy:** Paper entitled: “Ni–Catalyzed Difunctionalization of Alkynyl Bromides with Thiosulfonates and N-Arylthio Succinimides: A

Convenient Synthesis of 1,2-Thiosulfonylethenes and 1,1-Dithioethenes,” was Shortlisted for the “Synthesis Best Paper Award-2021”

10. **Dr. Raju Jannapu Reddy:** Paper entitled: “Simple and Efficient Synthesis of Allyl Sulfones through Cs₂CO₃-mediated Radical Sulfonylation of Morita-Baylis–Hillman Adducts with Thiosulfonates” was Highlighted in the SynForm News.

5.6 Membership of the Faculty in important national bodies

- Member of **American Chemical Society.**
- Member of **Royal Society of Chemistry.**
- Member of **International Society of Heterocyclic Chemistry.**
- Life Member of **Indian Science Congress.**
- Life Member of **Chemical Research Society of India.**
- Life Member of **Indian Chemical Society.**
- Life Member of **Indian Council of Chemists.**
- Life Member of **Indian Society of Chemists and Biologists.**
- Life Member of **Indian Association of Chemistry Teachers.**
- Life Member of **Indian Institute of Public Administration.**
- Life Member of **Electrochemical Society of India, Bangalore.**
- Life Member of **The Society for Advancement of Electrochemical Science and Technology, Karaikudi.**
- Life Member of **Materials Research Society of India (MRSI)**
- Life Member of **International Congress of Chemistry and Environment.**
- Life Member of **Catalysis Society of India**
- Life Member of **International Society of Teachers and Researchers in Chemistry (ISRTC) & Journal of Teaching and Research in Chemistry (JTRC)**
- Life Member of **Osmania University Chemistry Alumni Association**
- Fellow of **Telangana Academy of Sciences**
- Member of **Taiwan society for mass spectrometry (TSMS)**

5.7 Faculty attended / chaired session in Seminars / Conferences / events (National & International)

Details of research work presented in National Seminars / Conferences

Details of research work presented in International Seminars / Conferences

S.No.	Name of Researcher	Title of the Conference	Title of the Paper	Year/ Duration	Name of the organizer and address
1	Invited Lecture by Prof. P. Leelavathi	Webinar FDP-CRISP	“Know the structure: Spectral Data interpretation”	13 th June 2020	Hindu College of Pharmacy, Guntur.
2	Invited Lecture by Prof. P. Leelavathi	Webinar series - Molecular spectroscopy	“Mass spectrometry”	July 4 th , 2020.	Jyothishmathi Institute of Pharmaceutical sciences, Thimmapur, Karimnagar, Telanagana.
3	Invited Lecture by Prof. P. Leelavathi	One-week online International FDP on "Traditional Classroom to Virtual Labs: Improvisation of Teaching & Learning Chemistry"	“Spectral analysis”	January 29, 2021.	Department of Chemistry, Anwarul Uloom College, Nampally, Hyderabad
4	Invited Lecture by Dr P V Anantha Lakshmi	Molecular spectroscopy webinar series	UV-Vis Spectroscopy	July 3 rd , 2020.	Jyothishmathi Institute of Pharmaceutical Sciences, Thimmapur, Karimnagar
5	Invited Lecture by Dr P V Anantha Lakshmi	Chemical Science Symposium	Spectroscopy-A Birds Eye View	19-09-2020	Telangana Social Welfare Resedential Degree College for Women-Mahendrahills
	V. Sumathi, S. Veeresham, A.K.D. Bhavani* , P. Shankaraiah		“One Pot Synthesis of unsymmetrical bis aza heterocycles – 2-(pyrazol-4-yl)quinazolin-4(3H)-ones and their biological evaluation, computational studies.		
6	R.Nagamani, A.K.D. Bhavani		Synthesis of novel quinazolinone – triazole hybrids with azophenoxy methyl linker”		
7	Dr P Saritha Reddy	2-day International Conference on “Surface Chemistry	<i>o</i> -Vanillin derived Schiff base transition metal complexes as Antimicrobial and Anticancer drugs	27 th and 28 th August, 2020	Department of Chemistry, Annamalai University, Tamil Nādu
8	Dr D A Padmavathi	One Week International On Line FDP	Invited talk on “computers in chemistry” on 30 th Jan’21	27 th Jan - 2 nd Feb-2021	Anwar-ul-uloom PG College, Hyderabad

		for Chemistry Teachers on " Traditional Classroom to Virtual Labs: Improvisation of teaching and Learning Chemistry"			
	Dr D A Padmavathi	Online FDP-CRISP "Creative Research And Innovation In Spectroscopy"	Attended the FDP	8 th to 13 th June 2020	Dept. of Pharm. Analysis, Hindu College of Pharmacy, Guntur
	Dr D A Padmavathi	A Seven-Day National Webinar (FDP) on "ADVANCED CONCEPTS FOR DEVELOPING MOOCs" (Online Teaching, Learning & Assessment)	Attended the FDP	27 th July to 2 nd August 2020	Department of Chemistry, OU College for Women, Koti, Hyderabad
9	Dr D A Padmavathi	One-week online International FDP on "Traditional Classroom to Virtual Labs: Improvisation of Teaching & Learning Chemistry"	Attended the FDP	January 27, 2021 to February 2, 2021	Department of Chemistry, Anwarul Uloom College, New Mallepally, Hyderabad.
10	Dr D A Padmavathi	One-week online International FDP on "Traditional Classroom to Virtual Labs:	Attended the FDP	January 27, 2021 to February 2, 2021	Department of Chemistry, Anwarul Uloom College, New Mallepally, Hyderabad.

		Improvisation of Teaching & Learning Chemistry"			
11	Dr. Muralidhar Reddy P.	Two days International Conference on New Pathways in Chemistry	"Mono and Tri-cationic imidazolium salts: Use as stabilizers for AgNPs and Anticancer Study"	23rd and 24th May 2020	Department of Chemistry, N. G. Acharya & D. K. Marathe College of Arts, Science & Commerce, Shri N.G. Acharya Marg, Chembur, Mumbai-400071, Maharashtra, India
12	Dr. Muralidhar Reddy P.	Two Days International e-Conference on COVID-19 Impact on Environment and Human Health"	"Overview of the Effect of COVID-19 Pandemic on Forensic Pathology"	18 th and 20 th July 2020	Department of Environmental Science, Osmania University, Hyderabad, Telangana State, India
13	Dr. Muralidhar Reddy P.	Two-day National Seminar on "PERCEPT-2020"	"Summary of Method Development Report for the Determination of Related Compounds in Perampanel (PMP) By HPLC"	13 th and 14 th March, 2020.	Department of Pharmacy, University College of Technology, Osmania University, TS
14	Dr. Muralidhar Reddy P.	"National Conference on Physics and Chemistry of Materials (NCPCM2020)	"Synthesis and Characterization of Oxo Zirconium (IV) Complexes of Polydentate Ligands"	14th - 16th December, 2020	Department of Physics, Government Holkar (Model, Autonomous) Science College, Indore (M.P.), INDIA.
15	Dr A Hari Padmasri	National Webinar talk for the Chemistry teachers and UG& PG students.	Invited talk on "Thermodynamics"	23 rd May 2020	Govt. Degree College,
16	Dr A Hari Padmasri	Two Day International Webinar on "Recent Advances in Chemical Sciences & Research (RACSR-2020)"	Valedictory Note as Chief Guest	16 th December 2020	Y A Govt. College for Women, Guntur

17	Dr A Hari Padmasri	e-symposium on "Absolute Basics in Analytical Techniques"	Invited lecture on "Photoelectron spectroscopy/XPS" on 23 rd July 2020.	23 rd – 24 th July, 2020.	Dept. of Chemistry, Palamuru University, Mahbubnagar, Telangana
18	Dr A Hari Padmasri	One Week International On Line FDP for Chemistry Teachers on " Traditional Classroom to Virtual Labs: Improvisation of teaching and Learning Chemistry"	Invited talk on "Heterogeneous Catalysis for Sustainable Development" on 30 th Jan'21	27 th Jan - 2 nd Feb- 2021	Anwar-ul-uloom PG College, Hyderabad
19	Dr A Hari Padmasri	Online FDP-CRISP "Creative Research And Innovation In Spectroscopy"	Attended the FDP	8 th to 13 th June 2020	Dept. of Pharm. Analysis, Hindu College of Pharmacy, Guntur
20	Dr A Hari Padmasri	A Seven-Day National Webinar (FDP) on "ADVANCED CONCEPTS FOR DEVELOPING MOOCs" (Online Teaching, Learning & Assessment)	Attended the FDP	27 th July to 2 nd August 2020	Department of Chemistry, OU College for Women, Koti, Hyderabad
21	Dr A Hari Padmasri	One-week online International FDP on "Traditional Classroom to Virtual Labs: Improvisation of Teaching & Learning	Attended the FDP	January 27, 2021 to February 2, 2021	Department of Chemistry, Anwarul Uloom College, New Mallepally, Hyderabad.

		Chemistry"			
22	Dr A Hari Padmasri	One-week online International FDP on "Traditional Classroom to Virtual Labs: Improvisation of Teaching & Learning Chemistry"	Attended the FDP	January 27, 2021 to February 2, 2021	Department of Chemistry, Anwarul Uloom College, New Mallepally, Hyderabad.
23.	Prof. D. Ashok	Indian Council of Chemists	Synthesis of novel 1,4-bis(4-(((3-methylbenzofuran-6-yl)oxy)methyl)-1h-1,2,3-triazol-1-yl)benzenes using green synthetic protocol	Feb, 2021	Indian Council of Chemists, Agra, U.P, India
24.	Invited Lecture by Prof. P. Leelavathi	e-symposium on "Absolute Basics in Analytical Techniques"	Invited lecture on "Spectral data Interpretation" on 24 th July 2020.	23 rd – 24 th July 2020.	Dept. of Chemistry, Palamuru University, Mahbubnagar, Telangana
25.	Invited Lecture by Prof. A.K.D. Bhavani	e-symposium on "Absolute Basics in Analytical Techniques"	Invited lecture on "Use of Spectral data for structural determination of Natural products " on 23 rd July 2020.	23 rd – 24 th July 2020.	Dept. of Chemistry, Palamuru University, Mahbubnagar, Telangana

5.8 Subject related extension activities involving interaction with society /community /institutions

Guest Lectures delivered by the Faculty Members:

S.No.	Name of the Faculty member	Topic	Place/Date
1	Dr A Hari Padmasri	"Heterogeneous Catalysis" to M.Sc Physical Chemistry students	PG centre, Mirzapur during March/April 2020.
2	Dr A Hari Padmasri	"Types of Materials" to MSc Physical Chemistry students	PG Centre, Mirzapur during November 2020.
3	Dr A Hari Padmasri	"Principles of Spectroscopy" to MSc Physical Chemistry	PG Centre, Mirzapur during December 2020

		students	
4	Dr D A Padmavathi	Guest lecture on “Common ion effect” for teachers in the 3 Day Chem Collective Lab workshop at IIT Bombay .	IIT Bombay, On 25th February 2021,
5	Dr. P. Muralidhar Reddy	“Impacts of Ozone Depletion on Environmental and Health effects”	Department of Chemistry, TSWRDC(W), Karimnagar held on 6 th June 2020.
6	Dr. P. Muralidhar Reddy	“Role of Functionalized Magnetic Iron Oxide Nanoparticles for Biomedical Applications”	Department of Chemistry, Univeersity College of Engineering, Bharathidasan Institute of Technology (BIT) Campus, Anna University, Tiruchirappalli – 620 024
7	Dr. P. Muralidhar Reddy	Mass Spectrometry	PG College, Mirzapur April 2020
8	Dr. P. Muralidhar Reddy	Drinking Water and Sewage Water Treatment	PG College, Mirzapur May 2020
9	Dr. P. Muralidhar Reddy	Analysis of Air and Water Pollutants	PG College, Mirzapur May 2020
10	Dr. P. Muralidhar Reddy	AAS, AES, ICP-AES	PG College, Mirzapur October 2020
11	Dr. P. Muralidhar Reddy	Advanced Mass spectrometry	PG College, Mirzapur November 2020
12	Dr. P. Muralidhar Reddy	Advanced Separation Techniques	PG College, Mirzapur December 2020
13	Prof. D. Ashok	Stereochemistry	Webinar organized by Department chemistry, OU
14	Prof. D. Ashok	Green Synthesis of Macrocyclic Scaffolds For Human Well Being	JNTU-H HYDFERABAD
15	Prof. M.Vithal	Research methodology	MGIT/ 2021
16	Prof. M.Vithal	Infrared and Microwave Spectroscopy	Avanthi College /2021

8 - Brief Report on the analysis of Students Performance – Course-wise (Final Year only)

8.9 Analysis of student performance in the last five years.

Sl.No	Course	Students		2020-21	2019-20	2018-19	2017-18	2016-17
1	2	3	4	5	6	7	8	9

(b) Faculty recruitment status during the year

Sl. No	No. of posts vacant				No. of posts advertised				No. of post filled			
	Prof	Asso. Prof	Asst. Prof	Total	Prof	Asso. Prof	Asst. Prof	Total	Prof	Asso. Prof	Asst. Prof	Total
1	2	3	4	5	6	7	8	9	10	11	12	13

(c) Permanent teachers on rolls

Sl. No	Professors		Assoc. Professors		Asst. Professor		Total
	Male	Female	Male	Female	Male	Female	
1	2	3	4	5	6	7	8
	07	03	0	01	5	5	21

13.2. Temporary Teachers (Retired / Re-employed / Working on temporary / ad-hoc basis/ Academic Consultants) –none-

Sl.No	Category of the teacher	Number		Total
		Male	Female	
1	2	3	4	5

13.3. Department-wise Seminars / Conferences organized

Sl.No	Department	Title of Seminar/ Conference	National / International	Duration & dates	Sponsoring agencies	Remarks
1	2	3	4	5	6	7

13.4. Department-wise Workshops / Training programs organized

Sl.No	Department	Workshop/ Training programme	Teaching / Non-Teaching	Duration & dates	Sponsoring agencies	Remarks
1	2	3	4	5	6	7
1	Chemistry					
2	Chemistry					

13.5. Details of Major research projects sanctioned during the year

Sl.No	Department	Name of the	Project title	Sponsoring agencies	Amount & Duration

		Teacher			
1	2	3	4	5	6
1	Chemistry	Prof M Vijjulatha	Empowerment and Equity Opportunities for Excellence in Science: “Computational Analysis of Mutational Effects on HIV-1 Antiretroviral Therapy and Target Oriented Synthesis of Potential Lead molecules”, Sanction No: EEQ/2018/000117	DST SERB	Rs.42,00,000 & 2019-2022
2	Chemistry	Prof M Vijjulatha	“Development of molecular based novel inhibitors on signaling with focus on PI3K-AKT-mTOR pathway” Sanction No: 02(02480)/19.	CSIR	Rs.21,80,400 & 2019-2023
3	Chemistry	Dr K Shiva Kumar	Synthesis of natural products and non-natural analogues via cascade C-H activation/functionalisation	CSIR	Rs. 2916756 2019-2022
4	Chemistry	Prof D Ashok	Access to New Macrocyclic Olefines via C-H Functionalization and Ring Closing Metathesis in Search for Potent Anticancer Drug Candidates	UGC-BSR Faculty fellowship	33,00,000/- & 2019-2022
5	Chemistry	Dr. Raju J. Reddy	Oxidative Cross-Coupling for Divergent Synthesis of N-Heterocycles	CSIR	28.10 lakhs 2018- 2021
6	Chemistry	Prof M Vijjulatha	“Synthesis and anti-viral evaluation of newly designed nucleoside analogs beyond repurposing through revamping against emerging corona virus 2019 nCoV/SARS-CoV-2 by computational protocols”	DBT-BIRAC COVID-19 Research Consortium	45,00,000 lakhs 2019-2021
7	Chemistry	Dr. P. Muralidhar Reddy, Co-PI	Uniformly Disperse Antimicrobial Medical Latex Film for the Prevention of Healthcare-associated Infections	Ton Duc Thang University, Ho Chi Minh City, Vietnam	29,25,882/- & 2020-2022

8	Chemistry	Dr. P. Muralidhar Reddy, Co-PI	The study of uremic toxins, antioxidants and fatty acids related to arterial stiffness: MS based approaches	Buddhist Tzu Chi Medical Foundation & Tzu Chi University, Hualien, Taiwan	29,30,838/- 2020-2022
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13.6. Department under SAP

Sl.No	Department	Year of Sanction	Phase	Amount Sanctioned	Research fellowships sanctioned	No. of seminars conducted	Any other info
1	2	3	4	5	6	7	8
					-		

13.7. Department under FIST / COSIST / any other.

Sl.No	Department	Category	Year of sanction	Amount Sanctioned	Major equipment purchased	Any other info
1	2	3	4	5	6	7

13.8. Department-wise Publications

Sl.No	Department	No. of papers published in Refereed journals	Cumulative Impact factor of the publications	Books published	ISBN Nos.
1	2	3	4	5	6
	Chemistry	86	-	13	

13.9. Teacher participation in the Seminars / Conferences (**Please refer to 5.7**)

Sl.No	Department	Name of the teacher	Conference / Seminar	Institution & place	Sponsoring agency	Whether presented a paper
1	2	3	4	5	6	7
(Please refer to 5.7)						

13.10. Faculty visits abroad on academic purpose.

Sl.No	Name of the Department	Name of the teacher	Institution visited & period of visit	Country	Sponsoring agency	Activity undertaken
1	2	3	4	5	6	7

1	2	3	4	5	6	7	8	9

13.17. Number of Patents applied for and obtained –None-

Sl.No	Name of the Department	Name of the Teacher	No. of patents filed	No. of patents approved	National / International	Country	Patient information
1	2	3	4	5	6	7	8

13.18. Consultancy projects –None-

Sl.No	Name of the Department	Name of the Teacher	Organization	National / International	Country	Nature of Consultancy	Funds earned
1	2	3	4	5	6	7	8

13.19. No. of courses in which project work is introduced as part of the courses.

Sl.No	Name of the Department	Name of the Courses	Duration of the project work	Sponsoring agency	No. of credits given
1	2	3	4	5	6

13.20. Department – wise Major research projects completed

Sl.No	Name of the Department	No. of projects completed	Total amount utilized	No. of projects in progress
1	2	3	4	5
	Chemistry			
(Please refer to 4.6)				

15. Student Performance profile – Statistical data

15.9 Analysis of student performance at entry level and exit level

Sl.No	UG / PG	Name of the Faculty	Average marks in the qualifying exam at entry level	Average marks in the qualifying exam at exit level
1	2	3	4	5
1. University Colleges				
	A) UG	1		
		2		
		3		
	B) PG			
		1		
		2		

		3		
2. Affiliated Colleges				
	A) UG	1		
		2		
		3		
	B) PG	1		
		2		
		3		

15.21 Students qualified in NET / SLET etc.,

Sl.No	Subject	No. of students qualified				Total
		NET	TSSET	UPSC Civil Services	TSPSC G-1	
1	2	3	4	5	6	7
1	Chemistry	CSIR-JRF NET-1				
2						

Any other information.

Students' Placement Information:

Placements (2020-2021)	
1	Ms Shaik Rahila of MSc Physical Chemistry and Mr R Rakesh of MSc Inorganic Chemistry of 2018-20 batch are selected in the OU campus placements of Dr Reddy's labs.
2	Ms Ch Anusha from MSc Inorganic Chemistry of 2019-21 batch is selected in Dr Reddy's labs in OU campus Placements for Analyst Position.
3	Ms K Vinitha from MSc Organic Chemistry of 2019-21 batch is selected as an Assistant Lecturer in the OU Campus placements of Aakash Educational Institutions.
4	Ms Y Madhuri from MSc Organic Chemistry of 2019-21 batch is selected in Syngene labs in OU campus Placements.

Extra Circular Activities/Sports (2019-2020)

- 1 Ms. Ch Sowmya, Ms. S Oohashree and Ms. N. Sai Namratha of MSc Organic Chemistry I year 2019-21 batch were selected for CSIR Summer Research Training Programme and had completed the online programme from June to August 2020.
 - 2 **Ms Ch Sowmya** of MSc Organic Chemistry I year 2019-21 batch has participated in Inter – Collegiate E.Competition on “World Environment Day” organized by A.V. College held on 5th June 2020.
 - 3 **Ms. Ch Sowmya** of MSc Organic Chemistry I year 2019-21 batch has participated in DRAWING competition under Senior Level and secured FIRST PRIZE on the occasion of World Environment Week Celebrations from 5th to 12th June 2020 as “ENVIRONMENT EXCELLENCE CHAMPION” jointly organized by O.Y.S.T.E.R. & BE THE CHANGE.
 - 4 **Ms. Ch Sowmya** of MSc Organic Chemistry I year 2019-21 batch has participated in One Week Online International Skill Development Program on “Innovation in Natural Product Driven Drug Discovery and Analytical Chemistry” organized by Department of Pharmacognosy & Pharmaceutical Analysis, Shri Vishnu College of Pharmacy, Bhimavaram in Association with Association of Pharmaceutical Teachers of India, Association of Pharmacy Professionals, Society of Pharmacognosy and Mybo group from 6th to 11th July 2020.
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Signature
Head of the Department

Annexure I: List of Publications of Department of Chemistry

Sl. No.	Author	Publication type	Title	ISSN no./Year of Publication/IF
[1]	[2]	[3]	[4]	[5]
	Name of Author(s) in the format Last name, First name, Middle name	Journal Article / Book / Book Chapter	Full title of the article / Chapter in Book / Book	YYYY
1	Areef Mohammed, Yaku Gugulothu, Rajkumar Bandi, Ramakrishna Dadigala, Umesh Kumar Utkoor	<i>Journal of the Chinese Chemical Society.</i>	Ultraspeed synthesis of highly fluorescent N-doped carbon dots for the label-free detection of manganese (VII)	2021
2	K. Chandra Rekha, Gugulothu. Yaku and U. Umesh Kumar	<i>Rasayan journal of chemistry.</i>	Characterisation, anti bacterial and anticancer investigation of green synthesized silver nanoparticles utilizing gymnema sylvestre leaf .broth (podapathri) by microwave light strategy	2021
3	K. Chandra Rekha, Gugulothu Yaku, M. Prashanthi. and U. Umesh Kumar	<i>Indian Journal of Advances in Chemical Sciences</i>	In Vitro synthesis, characterization and DNA binding studies of Gold Nanoparticles by using Orange (citrus sinensis) peels extract.	2021
4	K.Chandra Rekha, U.Umesh Kumar	<i>The International journal of analytical and</i>	A Perspective Approach on Nanomaterial's for the Removal of	2020

		<i>experimental modal analysis</i>	Heavy Metals from Waste Water	
5	M. Prashanthi, Gugulothu. Yaku, K. Chandra Rekha, and U. Umesh Kumar	<i>Indian Journal of Advances in Chemical Sciences</i>	Validated UV Spectrophotometric Methods for the Simultaneous Estimation of Omeprazole and Domperidone	2021
6	Vijay Shekar Pulusu, K. C. Rajanna *, U. Umesh Kumar , M. Anil Kmar, Yaku Guguloth, Yadagiri Pulusu	<i>Indian Journal of Advances in Chemical Sciences</i>	“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.	2021
7	Vijay Shekar Pulusu, Chinna Rajanna Kamatala ^{1*} , Umesh Kumar Utkoor , Maasi Reddy Nagannagari, Samba Shiva Rao Arisha, Yaku Gugulothu	<i>Asian Journal of Chemistry,</i>	“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 using KBr under solvothermal and solvent-free conditions”.	2021
8	Vijay Shekar Pulusu, K. C. Rajanna*, U. Umesh Kumar , M. Anil Kumar, M. Satish Kumar, Hemanth Yelike, Yaku Gugulothu, Yadagiri Pulusu	<i>Silicone Journal of Chemistry</i>	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 solvo thermal and solvent-free conditions”	2021
9	Duguta, G.Muddam, B. Kamatala, C. Umesh Kumar Utkoor	<i>International Journal of Chemical Kinetics.</i>	Trichloroisocyanuric acid (TCCA) and carboxamide interactions in TCCA/NaNO ₂ triggered nitration of pyrrole and indole in aqueous aprotic media: A kinetic correlation of solvent properties with reactivity.	2020
10	Rajitha Nampally, Shylaja	<i>Chemical Data Collections</i>	Micellar effects on the kinetics and mechanism of ceric ammonium nitrate	2021

	Somannagari, Chinna Rajanna Kamatata, Yadagiri Bhongiri, Umesh Kumar Utkoor		oxidation of bicyclic monoterpenes under acid free conditions	
11	Kota Shiva Kumar, Kishan Gangulothu, Siddi Ramulu Messa, Umesh Kumar Utkoor , and Sabbasani Rajasekhara Reddy	<i>Asian journal of organic chemistry</i>	Pd/C and TFA-promoted one-pot, two-step cascade reaction: An effective synthesis of oxepines	2021
12	Praveen Kumar Rathod, J. Sowmya , P. Leelavathi	<i>Tet. Lett.</i> 66, 152808, 2021 (IF=2.25).	A simple and efficient synthesis of benzofuroquinolines via the decarboxylative cross coupling	2021/IF=2.25
13	K. Mahesh, K. Ravi, Praveen Kumar Rathod and P. Leelavathi	<i>New J. Chem.</i> , 2020, 44, 2367	Convenient synthesis of quinoline-fused triazoloazepine /oxepine derivatives through Pd- catalyzed C–H functionalisation of triazoles	2020/IF=3.068
14	Gali Ramesh, Sreenu Daravath, Swathi M, V. Sumalatha, Dasari Shiva Shankar, Shivaraj	<i>Chemical Data Collections</i> , 28, (2020), 100434, DOI: 10.1016/j.cdc.2020. 100434	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	2020/IF=0.94
15	Dasari Shiva Shankar, Nirmala Ganji, Sreenu Daravath, Kadtala Venkateswarlu, Shivaraj	<i>Chemical Data Collections</i> , 28, (2020), 100439, DOI: 10.1016/j.cdc.2020. 100439	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	2020/IF=0.94

16	N. Jyothi, Nirmala Ganji, Sreenu Daravath, Shivaraj	<i>Journal of Molecular Structure</i> , 1207 (2020) 127799.	Mononuclear cobalt(II), nickel(II) and copper(II) complexes: Synthesis, spectral characterization and interaction study with nucleotide by <i>in vitro</i> biochemical analysis.	2020/IF=2.12
17	Narendrula Vamsikrishna, Sreenu Daravath, Nirmala Ganji, Nayeem Pasha, Shivaraj	<i>Inorganic Chemistry Communications</i> , 113 (2020) 107767	Synthesis, structural characterization, DNA interaction, antibacterial and cytotoxicity studies of bivalent transition metal complexes of 6-aminobenzothiazole Schiff base.	2020/IF=1.79
18	Gali Ramesh, Sreenu Daravath, Nirmala Ganji, Aveli Rambabu, Kadtala Venkateswarlu, Shivaraj	<i>Journal of Molecular Structure</i> . 1202 (2020) 12733	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	2020/IF=2.12
19	Aveli Rambabu, Sreenu Daravath, Nirmala Ganji, Dasari Shiva Shankar, Krishnan Rangan and Shivaraj	<i>Journal of Molecular Structure</i> , 1199 (2020) 127006.	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	2020/IF=2.12
20	Rajeshwari K, Anantha Lakshmi P.V. , Archana J, Sumakanth M	<i>Applied Organometallic Chemistry</i>	Ternary Cobalt(II), Nickel(II), and Copper(II) complexes containing metformin and ethylenediamine: Synthesis, characterization, thermal, <i>in vitro</i> DNA binding, <i>in silico</i> molecular docking, and <i>in vivo</i> antihyperglycemic studies	1099-0739/ 2020/4.105

21	Kamala L, Sathish Kumar B, Anantha Lakshmi P.V.	<i>Russian Journal of Bioorganic Chemistry</i>	Synthesis and Docking Studies of Novel Carbazole- Thiazolidinedione Hybrid Derivatives as Antibacterial Agents.	1068-1620/ 2021/ 0.796
22	K. Rajeshwari, P. Vasanth, B.S. Kumar, B. Shekhar, P.V. Anantha Lakshmi	<i>Applied Organometallic Chemistry, 2020, 34:e5351</i>	Water Soluble Nickel – metformin ternary complexes: Thermal, DNA binding and molecular docking studies	2020/IF=4.105
23	Kumari, A. H., Kumar, J. J. and Reddy, R. J.,*	<i>Synthesis, 2021, 53, 2850–2864</i>	Ni–Catalyzed Difunctionalization of Alkynyl Bromides with Thiosulfonates and N- Arylthio Succinimides: A Convenient Synthesis of 1,2-Thiosulfonylethenes and 1,1-Dithioethenes	2021/IF: 3.157
24	Reddy, R. J.,* Kumari, A. H. and Kumar, J. J.	<i>Org. Biomol. Chem.</i> 2021, 19, 3087- 3118	Recent Advances in the Synthesis and Applications of □□Keto Sulfones: New Prospects for the Synthesis □□Keto Thiosulfones,	2021/IF: 3.876
25	Shankar, A., Waheed, Md. and Reddy, R. J.*	<i>SynOpen, 2021, 5, 91–99 (Invited)</i>	Simple and Efficient Synthesis of Allyl Sulfones through Cs ₂ CO ₃ -mediated Radical Sulfonylation of Morita-Baylis–Hillman Adducts with Thiosulfonates	2021/IF: NA
26	Reddy, R. J.,* and Kumari, A. H.	<i>RSC Adv., 2021, 11, 9130-9221</i>	Synthesis and Applications of Sodium Sulfinates (RSO ₂ Na): A Powerful Building Block for the Synthesis of Organosulfur Compounds	2021/IF: 3.361
27	Reddy, R. J.,* Waheed, Md. and Krishna, G. R.	<i>Org. Biomol. Chem.</i> 2020, 18, 3243- 3248	Phenylboronic acid- catalyzed tandem construction of S–S and C– S bonds: a new method for the synthesis of benzyl disulfanylsulfone derivatives from S-benzyl thiosulfonates	2020/IF: 3.876
28	A Saritha , Ch	<i>Vietnam J. Chem.,</i>	Synthesis, characterization	2021/IF:

	Venkata Ramana Reddy and B Sireesha	2021, 59(1), 57-68	and biological activity of mixed ligand chelates of Ni(II) with pyridoxalthiosemicarbazone and dipeptides.	
29	Kavitha Ramdas, Ch. Venkata Ramana Reddy, B. Sireesha	<i>Arabian Journal for Science and Engineering</i> https://doi.org/10.1007/s13369-021-05562-2	Synthesis, Characterization, DNA Binding, Cleavage, Antibacterial, In vitro Anticancer and Molecular Docking Studies of Ni(II), Cu(II) and Zn(II) Complexes of 3,4,5-TrimethoxyN-(3-Hydroxy-5-(Hydroxymethyl)-2-Methylpyridin-4-yl)methylene) Benzohydrazide	2021/IF:
30	Pulimamidi Saritha Reddy	<i>Journal Applied Organometallic Chemistry</i>	Biological evaluation, molecular docking, DNA interaction and thermal studies of new bioactive metal complexes of 2-Hydroxybenzaldehyde and fluorobenzamine Schiff base ligand	1099-0739 2020 IF : 4.105
31	Shankaraiah Pagilla, Angajala Kishore Kumar, Vianala Sunitha and Anagani Kanaka Durga Bhavani	<i>J. Serb. Chem. Soc.</i> 85 (5) 601–608 (2020)	PEG-mediated synthesis of 6-pyrazinyl-/fused pyrazinylquinazolin-4(3H)-ones using Castro–Stephen coupling, oxidation and cyclocondensation reactions.	2020/IF=1.023
32	P. Shankaraiah, A. K. D. Bhavani , A. Kishore Kumar, and K. Ramakrishna	<i>Russian Journal of General Chemistry</i> , 2020, Vol. 90, No. 4, pp. 720–724	Synthesis and Cytotoxicity of Quinazolin-4(3H)-one Based Peptides.	2020/IF=0.716
33	Mahesh K and D A Padmavathi	<i>Journal of Fluorescence</i> Volume 30, Page 35-40, Year 2020	Novel Photoswitchable dihetarylethenes exhibiting fluorescence	2020/IF=2.093
34	P. Ramesha, V. Srinivasa Rao, P. Muralidhar Reddy , K. Suresh Babu and	<i>Letters in Drug Design & Discovery</i> , 2020, 17(7), 873-883	Synthesis, biological evaluation and molecular modeling studies of novel C(7) modified analogues of chrysin	2020/IF=1.169

	M. Srinivasa Rao			
35	Kura Narsimha, M. Shekar Babu, N. Anuradha, Swarupa Guda, B. Kranthi Kumar, D. Mallesh, G. Upender, P. Muralidhar Reddy and B. Vijaya Kumar	<i>New J. Chem.</i> , 2020, 44, 2380–2388,	Preparation and characterization of CdWO ₄ :Cu nanorods with enhanced photocatalytic performance under sunlight irradiation	2020/IF=3.069
36	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	<i>Molecules</i> 2020 , 25(9), 2199	In situ FTIR Spectroscopic Monitoring of the Formation of the Arene Diazonium Salts and its Applications to Heck-Matsuda Reaction	2020/IF=3.288
37	Ashish Chhaganlal Gandhi, Tai-Yue Li, B. Vijaya Kumar, P. Muralidhar Reddy , Jen-Chih Peng, Chun-Ming Wu and Sheng Yun Wu	<i>Nanomaterials</i> 2020, 10(7), 1318, (https://doi.org/10.3390/nano10071318)	Room Temperature Magnetic Memory Effect in Cluster-Glassy Fe-doped NiO Nanoparticles	2020/IF=4.324
38	S. Durga Bhavani, N. Naresh Reddy, A. Krishnam Raju, M. Radhika, P. Muralidhar Reddy and K. Bhaskar	<i>American Institute of Physics (AIP) Conf. Proc.</i>	“Synthesis and Characterization of Oxo Zirconium (IV) Complexes of Polydentate Ligands”	2021, 2369,020044, <i>Impact Factor: 0.40, Publisher: American Institute of Physics (United States), ISSN 0094-243X (print); 1551-7616 (web);</i>

39	Revathy Sundara Moorthy, Rohini Rondla, M. Kavitha, P. Hima Bindu, Chand Pasha, and P. Muralidhar Reddy	<i>American Institute of Physics (AIP) Conf. Proc.</i>	“Potential Applications of Nanoparticles Embedded U-bent Fiber Optic Probe”	2021, 2369,020035, Impact Factor: 0.40, Publisher: American Institute of Physics (United States), ISSN 0094-243X (print); 1551-7616 (web)
40	N. Naresh Reddy, A. Sanjeev, S. Bhaskar, M. Kumara Swamy, V. Srinivasa Rao, A. Krishnam Raju, K. Bhaskar, Anren Hu, P. Muralidhar Reddy	<i>Molecules</i>	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,	2021, 26, 1952, Impact Factor: 4.411, Publisher: MDPI AG, Switzerland, ISSN: 1420-3049;
41	Veerawamy Rama, Nagaraju Rajana, K. Sateesh Reddy, Siddaiah Vidavulur, T.V. Pratap, Siva Bandi, Rohini Rondla, M. Radhika, K. Bhaskar and P. Muralidhar Reddy,	<i>Bioscience Biotechnology Research Communications (BBRC)</i>	Synthesis and characterization of Abacavir acetic acid salt polymorphic transition from Abacavir free base by using Process Analytical Tools (PAT)	2021, 13(15), 207-211, (Doi: Impact Factor: 1.783, Print ISSN: 0974-6455 Online ISSN: 2321-4007
42	Sampath Bitla, Akkiraju Anjini Gayatri, Muralidhar Reddy Puchakayala, Vijaya Kumar Bhukya, Jagadeshwar Vannada, Ramulu Dhanavath, Bhaskar Kuthati, Devender Kothula,	<i>Bioorganic & Medicinal Chemistry Letters</i>	“Design and synthesis, biological evaluation of bis-(1,2,3- and 1,2,4)-triazole derivatives as potential antimicrobial and antifungal agents”	2021, 41, 128004, Impact Factor: 2.823, Publisher: Elsevier, United Kingdom, ISSN: 0960-894X

	Someswar Rao Sagurthi, Krisham Raju Atcha,			
43	Mallesh Magini, Sampath Bitla, P. Muralidhar Reddy Saritha Birudaraju, Ramulu Dhanavath,, Krishnam Raju Atcha,	<i>Results in Chemistry,</i>	An Efficient (TBA) ₂ S ₂ O ₈ Catalyzed Regioselective Solvent-Free One-Pot Synthesis of Fully Substituted Pyrazoles	2021, 3, 100184, <i>Impact Factor:</i> <i>, Publisher :</i> <i>Elsevier, United Kingdom, ISSN: 2211-7156</i>
44	S. P. Mydhili, B. Sireesha , and Ch. Venkata Ramana Reddy	<i>Russian Journal of General Chemistry, 2019, Vol. 89, No. 5, pp. 1015–1022.</i>	Synthesis, Antioxidant, and Antibacterial Studies of Zn(II), Cd(II), and Hg(II) Complexes with 3-Formylpyridinethiosemicarbazone and Its N4-Methyl Analogue	2020/IF=0.716
45	Naveen Reddy Pailla and Bhaskar Kuthati	<i>International Journal of ChemTech Research, 2020,13(3): 210-217. DOI= http://dx.doi.org/10.20902/IJCTR.2019.130318</i>	Spectrophotometric determination of Clinidipine, Efavirenz, Prazosin drugs by using Folin-Ciocalteu Reagent	2020/IF=0.33
46	Naveen Reddy Pailla and Bhaskar Kuthati	<i>World Journal of Pharmaceutical Research, 2020, Volume 9, Issue 5, 1164-1178</i>	Spectrophotometric Determination Of Drugs And Pharmaceuticals By Using Folin-Ciocalteu Reagent	2020
47	G. Maddala, R. Gade, J. Ahemed, S. Kalvapalli, N. B. Simhachalam, P. Chetti, Someshwar Pola , R. Mitty	<i>Solar Energy</i>	Efficient, Dopant free Phenazine based Hole Transporting Materials for High Performance Perovskite Solar Cells	2021, 216, 501-512 IF: 5.742
48	Venkateshwar Rao D, Mahesh Subburu, Ramesh Gade, Manohar	<i>Environ. Sci.: Water Res. Technol.,</i>	New Zn (II) Complex-Composite Material: Piezo-Enhanced Photomineralization of	2021, 7, 1737-1747 IF: 4.251

	Basude, Chetti Prabhakar, Narendra S. Babu, Nagababu penumaka and Yadagiri Bhonogiri, Someshwar Pola,*		Organic Pollutants and Wastewater from Lubricant Industry	
49	Venkat Swamy Puli, Suresh K, Yadagiri Bhongiri, Anuj Tripathi, Prabhakar Chetti, Anindita Chatterjee, Kiran Kumar Vukoti and Someshwar Pola,*	<i>J. Phys. Org. Chem.</i>	New indolo[1,2-c]quinazolines for Single-crystal field effect transistor (SCFET): A united Experimental and Theoretical Studies,	2021, e4276. IF: 2.391
50	J. Ahemed, J. Pasha, V. Rao D. R. Kore, R. Gade, Y. Bhongiri, P. Chetti, Someshwar Pola	<i>Journal of Photochemistry & Photobiology, A: Chemistry,</i>	Synthesis of New Zn (II) Complexes for Photo decomposition of Organic Dye Pollutants, Industrial Wastewater and Photo-oxidation of methyl Arenes under Visible-light	2021, 406, 113455. IF: 4.291
51	V. S. Puli, M. Subburu, Y. Bhongiri, A. Tripathi, K.R.S. Prasad, A. Chatterjee, Someshwar Pola,* P. Chetti,	<i>Journal of Molecular Structure</i>	New Indolo[3,2-b]indole based small organic molecules for Organic Thin Film Transistors (OTFTs): A combined experimental and DFT Study	2021, 1229, 129491. IF: 3.196
52	M, Subburu, R. Gade, V. Guguloth, P. Chetti, K. R. Ravulapelly, Someshwar Pola	<i>Journal of Photochemistry & Photobiology, A: Chemistry</i>	Effective photodegradation of organic pollutants in the presence of mono and bi-metallic complexes under visible-light irradiation	2021, 406, 112996. IF: 4.291
53	Vidya V. M., Someshwar Pola and Prabhakar Chetti	<i>Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy</i>	Optoelectronic and charge transport properties of D-n-A type 1,3,5-triazine derivatives: A combined experimental and DFT study,	2021, 245, 118940. IF: 4.098

54	S. P. Sai Sushma, G. Swarupa, T. Nagesh, Someshwar Pola , P. Rajitha, B. Vijaya Kumar and G. Upender	<i>New J. Chem.</i>	Enhanced photocatalytic activity of CdWO ₄ /BaTiO ₃ heterostructure for dye degradation	2021, DOI:10.1039/d1nj01556g IF: 3.591
55	M. S. Kumar, G. Maddala, M. Ambapuram, M. Subburu, J. R. Vaidya, S. N. Babu, P. Chetti, R. Mitty and Someshwar Pola*	<i>Sustainable Energy Fuels</i>	Cost-effective thiophene-assisted novel dopant free hole transport materials for efficient perovskite solar cell performance	2020, 4, 4754–4767. IF: 6.367
56	S. Bharadwaj, A. Tirupathi, N. P. Kumar, Someshwar Pola , Y. K. Lakshmi	<i>Journal of Magnetism and Magnetic Materials</i>	Study of magnetic and magnetoresistance behaviour of La _{0.67} Sr _{0.33} MnO ₃ –CoFe ₂ O ₄ composites	2020, 513, 167058. IF: 2.993
57	Bandari Rajesham, Vemula Arunkumar, Praveen Kumar Naikawadi and K. Shiva Kumar	<i>New J. Chem.,</i>	Copper-catalyzed cascade C–N coupling/C–H amination: one pot synthesis of imidazo[1,2- <i>b</i>]indazole	2020,44, 15816-15820 I.F: 3.591 ISSN 1369-9261
58	Siddi Ramulu Meesa, Praveen Kumar Naikawadi, Kishan Gugulothu K. Shiva Kumar	<i>Org. Biomol. Chem.,</i>	Catalyst and solvent switched divergent C–H functionalization: oxidative annulation of <i>N</i> -aryl substituted quinazolin-4-amine with alkynes	2020,18, 3032-3037 I.F: 3.87 ISSN 1477-0539
59	Vimala Kanikireddy, Kokkarachedu Varaprasad, M. Sandhya Rani, P. Venkataswamy, Boggu Jagannmohan Reddy, M. Vithal	<i>Carbohydrate Polymers, 2020, 236, 116053.</i>	Biosynthesis of CMC-Guar gum-Ag nanocomposites for inactivation of food pathogenic microbes and its effect on the shelf life of strawberries	2020/IF = 6.320
60	R. J. Reddy,* J. J. Kumar, A. H.	<i>Adv. Synth. Catal. 2020, 362, 1317-</i>	Pd-Catalyzed Annulation of β -Iodovinyl Sulfones with	2020/IF = 5.451

	Kumari and G. R. Krishana	1322.	2-Halophenols: A General Route for the Synthesis of 3-Sulfonyl Benzofuran Derivatives	
61	D Ashok , MR Reddy, N Nagaraju, R Dharavath, K Ramakrishna, S Gundu, P. Shravani, M Sarasija,	<i>Medicinal Chemistry Research</i> , 2020, 29, 699-706	Microwave-assisted synthesis and in vitro antiproliferative activity of some novel 1, 2, 3-triazole-based pyrazole aldehydes and their benzimidazole derivatives	2020/IF = 1.720
62	D Ashok , MR Reddy, N Nagaraju, R Dharavath, K Ramakrishna, S Gundu, P. Shravani, M Sarasija	<i>Medicinal Chemistry Research</i> , 2020, 29, 699-706	Microwave-assisted synthesis and in vitro antiproliferative activity of some novel 1, 2, 3-triazole-based pyrazole aldehydes and their benzimidazole derivatives	2020/IF = 1.720
63	Ravinder Dharavath, N Nagaraju, MR Reddy, D Ashok , M Sarasija, M Vijjulatha	<i>RSC Advances</i> (2020), 10, 11615-11623	Microwave-assisted synthesis, biological evaluation and molecular docking studies of new coumarin-based 1, 2, 3-triazoles	2020
64	D Ashok , MR Reddy, Ravinder Dharavath, K Ramakrishna, N Nagaraju and M Sarasija	<i>Journal of Chemical Sciences</i> (2020), 132 (1), 1-9.	Microwave-assisted synthesis of some new 1,2,3-triazole derivatives and their antimicrobial activity	2020
65	D Ashok , NalaparajuNagaraju MR Reddy, Ravinder Dharavath, K Ramakrishna and M Sarasija	<i>Rasayan J. Chem</i> , (2020), 13(1) 601-609	Microwave-Assisted synthesis of tetrazole based biphenyls derivatives and their antimicrobial activity	2020
66	Ravinder Dharavath Madderla Sarasija Makthal Ram Reddy	<i>Journal of Heterocyclic Chemistry</i> (2020) 57(7)1-9	Microwave assisted synthesis of 4-methyl-3-arylpyrano[2,3-f]chromen-2(8H)-one derivatives, evaluation of antiproliferative, and	2020

	Nagaraju Nalaparaju Ramakrishna Katta Dongamanti Ashok		antimicrobial activities	
67	Sarasija Madderla, Ashok Dongamanti, B. Vijaya Laxmi, Nalaparaju Nagaraju and Santosh Boini	<i>Indian Journal of Heterocyclic Chemistry</i> (2020), 30 (2), 205-210	One-pot Synthesis and Antimicrobial Evolution of Some New Substituted 9- Hydroxy-4-methyl-8- phenylpyrano[2,3- f]chromene-2,10-diones	2020
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