

FORMAT –B

To be filled by **Head** of the Department of Campus / Constituent Colleges
OSMANIA UNIVERSITY
101st Annual Report for the Year 2019 – 2020
(01.04.2019 to 31.03.2020)

1. Name of the Department : **CHEMISTRY**
2. Name of the College : **University College of Science**
3. Name of the Head with Qualification : **Prof P Veerasomaiah, 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:**
 - Skill Enhancement Courses in Chemistry viz., Safety Rules in Chemistry Laboratory and Lab Reagents and Remedial Methods for Pollution, Drinking Water and Soil Fertility were introduced in Semesters III in B.Sc syllabus for the academic year 2019-2020 onwards.
 - Materials and their Applications and Chemistry of Cosmetics and Food Processing were introduced in Semester IV in BSc Syllabus for the academic year 2019-2020 onwards.
 - Pharmaceuticals, Materials, and their Applications were introduced as Generic electives for the students of other subjects who are opting an elective from chemistry.
 - General elective course for B.Sc. Non Chemistry/B.A./B.Com Students viz. Chemistry of Cosmetics, Food Processing, Drugs and Pharmaceuticals were introduced in Semesters V for the academic year 2019-2020 onwards.
 - (i). Spectroscopy and Chromatography and (ii). Metallurgy, Dyes and Catalysis were introduced in Semester V in BSc Syllabus for the academic year 2019-2020 onwards.
 - (i) Medicinal Chemistry and (ii) Agriculture and Fuel Chemistry were introduced in Semester VI in BSc Syllabus for the academic year 2019-2020 onwards.
 - 4.4 MoUs / Collaboration with National / International institutions –None-
 - 4.6 Research projects – (i) Sanctioned during the year – 3 (under DST-PURSE II) + 1- CSIR + 1-UGC-BSR
 (ii) Completed during the year – 2-DST-SERB + 1- UGC Start

Up + 11 (UGC-UPE-FAR) +
1-UGC-UPE FAR
(iii) In progress during the year –14 (under DST-PURSE II)
+ 2 CSIR + 1 DST-SERB

Name of the Investigator	Funding agency	Amount sanctioned	Duration	Project status
Dr Raju Jannapureddy	SERB-ECR	Rs. 33,10,900	2016-19	Completed
Dr Raju Jannapureddy	CSIR-EMR-II	Rs. 30,00,000	2018-21	Ongoing
Dr P Someshwar	UGC-SERO Minor	Rs.2,40,000/-	2017-19	On going
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

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. Shivaraj	60, 000/-	50,000/-
Prof. P. Veerasomaiah	60, 000/-	50,000/-
Prof. K. Bhaskar	60, 000/-	50,000/-
Prof. B. Manohar	60, 000/-	50,000/-
Prof. P. Leelavathi	60, 000/-	50,000/-
Prof. M. Vijjulatha	60, 000/-	50,000/-
Prof. A.K.Durga Bhavani	60, 000/-	50,000/-
Prof. P. Vijay Kumar	60, 000/-	50,000/-
Prof. J. Ramchander	60, 000/-	50,000/-
Dr. G. Vijayacharan	60, 000/-	50,000/-
Dr. P.V. Anantha Lakshmi	60, 000/-	50,000/-
Dr. D.A.Padmavathi	60, 000/-	50,000/-
Dr. A. Hari Padmasri	60, 000/-	50,000/-
Dr. P. Saritha Reddy	60, 000/-	50,000/-
Dr. B. Sireesha	60, 000/-	50,000/-
Dr. P. Jalapathi	60, 000/-	-

Dr. P. Muralidhar Reddy	60, 000/-	-
Dr. P. Someshwar	60, 000/-	50,000/-
Dr. K. Shiva Kumar	60, 000/-	50,000/-
Dr. Raju Jannapu Reddy	60, 000/-	50,000/-

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	Student Induction Program	4th – 10th July 2019	-
2	Sesquicentennial IYPT- 2019 (E-Poster symposium with theme - Elements of Chemistry: Environmental & Sustainable Development). A motivational talk, quiz and e-poster competitions were conducted under this programme.	30 th October 2019	UGC-UPE-FAR
3	MSSA2020: International Conference on Material Science for Societal Advancement	January 20-22, 2020	UGC-UPE-FAR
4	An educative tour was arranged to MSc final year students to CMET, Hyderabad	7 th February 2020	-
5	A pre placement talk was arranged to MSc final year students with Dr Reddy's Lab		-
6	Organized a one day Molecular Modeling Workshop using Open source software's	15 th February 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 P Veerasomaiah	11
2	Prof Shivaraj	13
3	Prof K Bhaskar	04
4	Prof P Leelavathi	06
6	Prof B Manohar	08
7	Prof M Vijjulatha	13
8	Prof A K D Bhavani	06
9	Dr G Vijaya Charan	04
10	Dr P V Ananthalakshmi	08
11	Dr NJP Subhashini	15
12	Dr D A Padmavathi	05
13	Dr A Hari Padmasri	18
14	Dr. P. Jalapathi	NA
15	Dr. P. Muralidhar Reddy	22
16	Dr P Someshwar	12
17	Dr Raju J Reddy	17
18	Dr K Shivakumar	17
19	Prof Ch Saraladevi	07
20	Prof D Ashok	10
21	Prof B Sathyanarayana	NA
22	Prof T Parthasarathy	08

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 organic synthesis, Telugu Academy, TS.
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. 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.

7. Dr. Someshwar Pola is the Author of Significance of “Thiazole based Heterocycles for Bioactive Systems (ISBN 978-953-51-2504-4).
8. Dr. P. Muralidhar Reddy authored Chapters in “A text book of Chemistry – Vol.3 (B.Sc II year, Semester-III); Edition 2019, Kedar Nath Ram Nath Publishers, Meerut, India, ISBN: 978-93-87007-35-9”
9. Dr. P. Muralidhar Reddy authored Chapters in “A text book of Chemistry – Vol.5 (B.Sc III year, Semester-V); Edition 2019, Kedar Nath Ram Nath Publishers, Meerut, India, ISBN: 978-93-67007-41-3”
10. Dr. P. Muralidhar Reddy authored Chapters in “Environmental Studies" Edition 2019, Neelkamal Publications Pvt. Ltd., New Delhi/Hyderabad, TS, India is published, ISBN: 978-93-88016-98-8
11. 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”

5.3 Number of patents applied for and sanctioned during the year: -01-

Indian patent titled “**Nucleicacids Separation and Purification Using Silicagel Matrix**” **Patent Application No granted: 201941040717 A: 09.10.2019, Publication Date: 18/10/2019 by Dr. P. Muralidhar Reddy**

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. Prof. M. Vijjulatha received State award for meritorious Teachers-2019 by Government of Telangana. on 5th Sept 2019.
6. 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**
7. 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

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**
- Fellow of **Telangana Academy of Sciences**

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

Details of research work presented in National Seminars / Conferences

S.No.	Name of researcher	Title of the conference	Title of the Paper	Year/ Duration	Name of the organizer and address
1	Lecture by Prof. Shivaraj	XXXVIII Annual Conference of ICC	DNA interaction and biocidal investigation of Cu(II) complexes with different Schiff bases : synthesis and spectral characterization	26 th to 28 th December 2019	Jaipur National University, Jaipur, Rajasthan.
2	Chaired session by Prof. Shivaraj	National Institute of Educational Planning and Administration	-	July 24-26, 2019	NIEPA, New Delhi
3	Convener, Prof. M. Vijjulatha	one day Molecular Modeling Workshop using Open source	-	15 th February 2020	Department of Chemistry, Osmania University

		software's			
4	Invited speaker, Prof. AKD Bhavani	XXXVIII Annual National Conference of Indian Council of Chemists	Synthesis of Pyrimidine Fused heterocycles Based Hybrid Compounds and Their Anticancer, Molecular Docking Studies"	26-28 th December, 2019	Jaipur National University, Jaipur, Rajasthan.
5	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	Duggi Suresh, K Mahesh and D. A. Padmavathi	3-Day National Seminar on Science and Technology for Sustainable Development with Women Empowerment(STSD-2020)	Photoswitchable Dihetarylethene Derivatives as Chemosensors to Detect Anions	25th to 27th February, 2020	
8	G. Rambabu, M. Balakrishna, S Yadaiah and A. Hari Padmasri*	National Symposium on Catalysis: ACIO-2019 (Advanced chemicals and Industrial outlook)	Ni-Al ₂ O ₃ -TiO ₂ hydrotalcite precursor as highly active and selective catalyst for vapour phase hydrogenation of levulinic acid: Synthesis, characterization and evaluation	2 nd - 3 rd August- 2019	Catalysis & Fine Chemicals Division, CSIR – Indian Institute of Chemical Technology, Hyderabad
9	G. Rambabu, A. Vennela, B.Vijayalaksh mi,M.Vijayath a and A.Hari Padmasri*	Three day National Seminar on Science and Technology for Sustainable Development with Women Empowerment " (STSD-2020)	"Biomass Valorization: Transformation of Levulinic acid to γ - Valerolactone over Non- noble Nano Ni- hydrotalcite based catalyst"	25 th -27 th February 2020	Department of Chemistry, Satavahana University, Karimnagar, Telangana

10	A Hari Padmasri	National Symposium on Catalysis: ACIO-2019 (Advanced chemicals and Industrial outlook)	Chaired the oral presentations session	2 nd August 2019	Catalysis & Fine Chemicals Division, CSIR – Indian Institute of Chemical Technology, Hyderabad
11	Dr. P. Muralidhar Reddy	Two day National Seminar on “Nature Inspired Initiatives in Chemical Sciences (NIICS-2019)”	“In situ FTIR spectroscopic monitoring of the formation of the arene diazonium salts and its applications to Heck-Matsuda reaction”	04-05th November 2019	Department of chemistry, South campus, Bhiknur, Telangana University
12	Dr. P. Muralidhar Reddy	Two-Day National Conference on “Current Status and Future Prospects of Biotechnology”	Separation and Identification of Candida Species by LC-SPA-MS/MS”	15th-16th November 2019	Department of Biotechnology, Nizam College, Basheerbagh, Hyderabad.
13	Delivered a Keynote lecture by Dr. P. Muralidhar Reddy	One day National Workshop on "Advanced Research in Chemical and Environmental Science" (under RUSA-2.0 Scheme)	on “New Mouth Cleaners with Positive Charged Magnetic Fe ₃ O ₄ Nano Particles”	2nd December 2019	Department of Chemistry, Sri YN college, Narsapur-534275, West Godavari Dt. AP, India
14	. Sailaja Kumari Y.L. Madhuri Dr. Vijaya Charan Guguloth*	Current Issues and challenges in chemical research	A novel eco-friendly method for the synthesis of silver nano-particles; a greener approach	18 and 19 march 2019	Kakatiya University Warangal
15	Y.L. Madhuri Dr. Vijaya Charan*	Advances in catalysis – industrial outlook	SeO ₂ / ZrO ₂ nano catalyst for the photo-degradation	1 and 2 Aug 2019	IICT Hyderabad
16	Laxmi Chaitanya Neeladri, Vaeshnavi Kashetti and Vijjulatha	8 th PhD/MS National Poster Symposium on “Recent Advances in Chemical and	Insilico analysis of HIV-1 Protease mutational patterns & prediction of drug sensitivity & resistivity profiles towards FDA approved protease	21st December 2019	Royal Society of Chemistry (London-UK)- Local Section Deccan (RSC-LSD) & National Institute of Pharmaceutical Education and Research

	Manga*	Pharmaceutical Sciences” (RACPS-2019)	inhibitors		(NIPER), Hyderabad
17	Vaeshnavi Kashetti, Shaik Khajavali and Vijjulatha Manga*	8 th PhD/MS National Poster Symposium on “Recent Advances in Chemical and Pharmaceutical Sciences” (RACPS-2019)	Computational Analysis of point and compound mutations on HIV-1 Protease to predict differential drug sensitivity and resistivity profiles towards FDA approved drugs	21st December 2019	Royal Society of Chemistry (London-UK)- Local Section Deccan (RSC-LSD) & National Institute of Pharmaceutical Education and Research (NIPER), Hyderabad
18	Kishan Chevula, Nagesh Patnam, Vijjulatha Manga	Indian Council of Chemists, XXXVIII ANNUAL CONFERENCE	Docked Based approach to design new HIV-1 Non-nucleoside Reverse Transcriptase inhibitors (NNRTI's)	26-28th December, 2019	Jaipur National University, Jaipur, Rajasthan.
19	Nagesh Patnam, Kishan Chavula and Vijjulatha Manga*	Indian Council of Chemists, XXXVIII ANNUAL CONFERENCE	Docking based approach towards design of new Rodanine derivatives in polyol pathway	26-28th December, 2019	Jaipur National University, Jaipur, Rajasthan.
20	Laxmi Chaitanya Neeladri, Vaeshnavi Kashetti and Vijjulatha Manga*	Indian Council of Chemists, XXXVIII ANNUAL CONFERENCE	Computational study of Mutational effects on HIV - 1 Protease using FDA approved drugs to understand the selectivity and resistivity for Anti-retroviral therapy	26-28th December, 2019	Jaipur National University, Jaipur, Rajasthan.
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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	Convener, Prof. Shivaraj	International Conference on Material Science for Societal Advancement	-	20-22, January 2020.	Osmania University, Hyderabad
2	Chaired the technical session by Prof. Shivaraj	6th International Conference of Indian Council of Chemists”	-	from 6 th to 8 th June 2019	ICC, at Hotel Novotel Wellness and Spa Roissy (Paris), Courtyard by Marriot-Avenue Des Olympaides (Brussels).

3	K. Mahesh, K . Ravi, Praveen Kumar Rathod, and P. Leelavathi	MSSA-2020: international conference on material science for societal advancement	A convenient synthesis of quinoline fused triazolo-azepine/oxepine derivatives	20-22, January 2020.	Osmania University, Hyderabad
4	K. MAHESH, D. A. PADMAVATHI	MSSA2020: International Conference on Material Science for Societal Advancement,	Computational Study on Photoswitching Behavior of Dihetarylethene Derivatives	20-22, January 2020.	Osmania University, Hyderabad, India,
5	Kandukuri Usha Rani, D. A. Padmavathi,	MSSA2020: International Conference on Material Science for Societal Advancement,	Synthesis and molecular docking study of Novel Peptide Derivatives of 2-Hydroxyquinoline-4-carboxylic acid as Potential AntiMtb and anti Microbial agents	20-22, January 2020.	Osmania University, Hyderabad, India,
6	<u>G. Rambabu</u> , B. Vijaya Laxmi, M. Vijayatha and A. Hari Padmasri*	International Conference on Material Science for Societal Advancement (MSSA-2020)	“Hydrotalcite Derived Nano Ni-Cu-Al Catalysts For The Effective Conversion Of Biomass Derived Levulinic Acid To γ -Valerolactone”	20-22 Jan'20	UPE-FAR, Osmania University
7	P. Nirmala Jyothi and B. Sireesha	International Conference on Material Science for Societal Advancement (MSSA-2020)	DNA cleavage and Antibacterial studies of Zn(II) complex with 1-phenylacetyl-3-thiosemicarbazide”	20-22 Jan'20	UPE-FAR, Osmania University
8	P. Sailaja Kumari Dr. Vijaya Charan*	International Conference on Material Science for Societal Advancement (MSSA-2020)	Fabrication of SnO ₂ nano particles using prosopis juliflora pod extract, characterization by physico-chemical techniques and its study on photodegradation of dyes	20-22 Jan'20	UPE-FAR, Osmania University
9	Y.L. Madhuri Dr. VijayaCharan*	International Conference on Material Science for Societal Advancement (MSSA-2020)	Synthesis and characterization of bio-fabricated TiO ₂ nano particle using techoma-stans leaf extract ; an Efficient bactericide	20-22 Jan'20	UPE-FAR, Osmania University

10	Vani Tamalpakula, Vijjulatha Manga*	International Conference on Drug Discovery	In silico screening and design of low molecular weight Cyclophilin - A inhibitors that assist HIV-1 Capsid assembly	Feb 29-1 st March 2020	Bits pilani, Hyderabad
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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	Prof. P. Leelavathi	Stereochemistry	at one day workshop sponsored by UPE-FAR on “application of material science in pharmaceutical industry”, October 2019.
2	Prof. M. Vijjulatha	Supramolecular Chemistry – An Overview	Extension lecture on 20th August 2019, at St. Francis College for women, Hyderabad
3	Prof. M. Vijjulatha	Bioinformatics Tools for Drug Discovery	at National workshop on Recent Trends in Bioinformatics for Exploratory Analysis and Visualization of Biological data held on Jan 16th, 2020 at St. Francis College for Women, Hyderabad
4	Prof. M. Vijjulatha	Computer Aided Drug Design	One Day workshop on “molecular modelling using open source softwares Sponsored by DST-SERB under Scientific and Social Responsibility held on 15 Feb, 2020 at Department of Chemistry, Osmania University, Hyderabad.
5	Prof. A. K. D. Bhavani	“Synthesis of Pyrimidine Fused heterocycles Based Hybrid Compounds and Their Anticancer, Molecular Docking Studies”	“XXXVIII Annual National Conference of Indian Council of Chemists held at Jaipur National University, Jagatpura, Jaipur (Rajasthan) during 26-28th December, 2019
6	Prof. A. K. D. Bhavani	Introduction to Pericyclic Reactions”	One day Seminar held at Govt. Residential Degree College, Jagithyala, on 4th January, 2020.
7	Dr.D.A. Padmavathi	Vibrational spectroscopy	Department of Chemical Engineering at JNTU, on 2nd March 2020
8	Dr.D.A. Padmavathi	“Atomic Structure”	for School teachers at Pallavi Model School, Boduppal, Hyderabad organized

			by Royal Society of Chemistry, London. On 7th June 2019
9	Dr. B. Sireesha	“Molecular Symmetry”	at Keshav Memorial Institute of Commerce and Sciences on 31st July 2019.
10	Dr. B. Sireesha	Symmetry of Molecules	at St Ann’s PG College for Women, Hyderabad 19th December 2019.
11	Dr A Hari Padmasri	Surface Chemistry and Micellar Catalysis	PG College, Mirzapur April 2019
12	Dr A Hari Padmasri	Phase transfer catalysis, Anchored catalysis and photocatalysis	PG College, Mirzapur May 2019
13	Dr A Hari Padmasri	Physical principles of spectroscopy and Vibrational spectroscopy	PG College, Mirzapur November 2019
14	Dr A Hari Padmasri	Types of Materials, Conducting Organics & NLO Materials	PG College, Mirzapur November 2019
15	Dr A Hari Padmasri	Heterogeneous Catalysis	PG College, Mirzapur March/April 2020
16	Dr. P. Muralidhar Reddy	Mass Spectrometry	PG College, Mirzapur April 2019
17	Dr. P. Muralidhar Reddy	Photoelectron & ESR spectroscopy	PG College, Mirzapur May 2019
18	Dr. P. Muralidhar Reddy	Drinking Water and Sewage Water Treatment	PG College, Mirzapur May 2019
19	Dr. P. Muralidhar Reddy	Analysis of Air and Water Pollutants	PG College, Mirzapur May 2019
20	Dr. P. Muralidhar Reddy	AAS, AES, ICP-AES	PG College, Mirzapur October 2019
21	Dr. P. Muralidhar Reddy	Advanced Mass spectrometry	PG College, Mirzapur November 2019
22	Dr. P. Muralidhar Reddy	Advanced Separation Techniques	PG College, Mirzapur December 2019

S.NO.	Name of the Event	Date
1	Special guest lecture by Dr. B. Mahipal Reddy, Rtd. Scientist, CSIR-IICT, Hyderabad, on 29 th June 2019 at 11.00 am “Design of Novel Nano-oxide catalysts for Energy and Environmental Applications”	29 th June 2019
2	Guest lecture by Prof. Samar Kumar Das, University of Hyderabad on “Electrochemical generation of Oxygen and Hydrogen from Water, Proton Conduction and Aerial CO ₂ capture towards Renewable Energy and Clean Environment at 2.00 pm Lecture hall 1, Department of Chemistry, OU, on the eve of superannuation of Prof. Ch. Sarala Devi, Department of Chemistry, Osmania University.	31 st August, 2019
3	Inauguration of M.Sc Final labs renovated by Dr. MSN Reddy, CEO, MSN Labs and Alumnus of Department of Chemistry on 11 th September 2019- Motivational talk by Dr. MSN Reddy to M.Sc Chemistry students	11 th September 2019
4	Periodic Table @ 150 : Some Stories “Inspirational Talk by Prof. V. Chandrasekhar, Director, TIFR Centre, Hyderabad and Alumnus of Department of Chemistry on the occasion of the superannuation of Prof. Battu Satyanarayana, HoD, Department of Chemistry, OU, on 30 th September, 2019	30 th September 2019
5	Sesquicentennial IYPT-2K19 organized under UGC-UPE-FAR –Programme on 30 th October 2019 at Lecture hall 1, Department of Chemistry, OU. – Guest lecture by Prof. K. C. Kumara Swamy, School of Chemistry, UoH, on Serendipity: Prussian Blue and Ferrocene in Chemistry (with inputs on Coordination and Organometallic Chemistry)	30 th October 2019
6	Guest lecture by Dr. S. Chandra Sekhar, Director, CSIR-IICT and Alumnus of Department of Chemistry on “13 th -21 st Century: The Saga of Science at 10 am Lecture hall 1, Department of Chemistry, OU, on the eve of superannuation of Dr. NJP Subhashini, Asst. Prof. Department of Chemistry, Osmania University.	31 st October 2019

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		2019-20	2018-19	2017-18	2016-17	2015-16
1	2	3	4	5	6	7	8	9
1		Registered	Boys		26	39	42	50
			Girls		43	39	30	28
2		Passed	Boys	Results Awaited	21	31	27	38
			Girls	Results Awaited	35	32	32	22

3		Percentage	Boys	Results Awaited	80%	79%	77%	76%
			Girls	Results Awaited	80.10%	82%	82%	78%

8.10 Scholarships / Fellowships earned by students (State / Council agencies / University).

Sl. No	Course	No. of students	No. awarded	Nature of Scholarships						
				State Govt.	Amount	Central Govt. Agencies	Amount	Univ.	Amount	Total Amount
1	2	3	4	5	6	7	8	9	10	11
1	Ph D	2	2			UGC-SRF	Rs. 2,54,800=00			Rs. 2,54,800=00
2	PhD	2	2			UGC-SRF	Rs. 4,54,800=00			Rs. 9,09,600=00
3	PhD	1	1			UGC-BSR RFSMS (SRF)	Rs. 4,35,240=00			Rs. 4,35,240=00
4	PhD	1	1			Inspire	Rs. 4,31,520			Rs. 4,31,520
5	PhD	1	1			CSIR-JRF	Rs.4,67,520			Rs.4,67,520
6	PhD	2	2			UGC-JRF	Rs.5,20,800			Rs.10,41,600
7	PhD	3	3			UGC-JRF	Rs.4,61,280			Rs.13,83,840
8	Project Assistant	1	1			DST-SERB	Rs.3,72,000			Rs.3,72,000
9	PhD	1	1			CSIR-SRF	Rs. 5,20,800			Rs. 5,20,800
10	Project Fellow	1	1			UGC-UPE-FAR	RS. 4,16,640			Rs. 4,16,640
11	Project Fellow	1	1			DST-SERB	Rs. 2,23,200			Rs. 2,23,200
12	PhD	5	5			UGC-JRF				
13	PhD	1	1			CSIR-JRF				
14	Project Fellow	1	1			DST-SERB				
15	PhD	1	1			CSIR-JRF	Rs. 3,61,537			Rs. 3,61,537
16	PhD	6	6			UGC-SRF	Rs. 4,36,800			Rs. 26,20,800
17	PhD	2	2			CSIR-JRF	Rs. 3,90,000			Rs. 7,80,000
18	PhD	1	1			WOS-A	Rs. 3,60,000			Rs. 3,60,000
19	PhD	1	1			UGC-SRF	Rs. 4,43,800			Rs. 4,43,800
20	PhD	1	1			CSIR-SRF	Rs.			Rs.

							4,43,800			4,43,800
21	PhD	1	1			UGC-JRF	Rs. 4,37,280			Rs. 4,37,280
22	PhD	3	3			CSIR-SRF	Rs. 5,20,800			Rs. 5,20,800
23	PhD	2	2			UGC-JRF	Rs. 4,61,280			Rs. 4,61,280

8.15 Brief Report on the Alumni Associations, its activities and contribution to the University (*about 2 pages*)

- ❖ The Osmania University Chemistry Alumni Association is formed in the year 2009 by its Founder President Prof. K. Veera Reddy. The Alumni Association activities are in the areas of infrastructural developments, arranging endowments lectures, Institution of (3) Gold Medals to encourage students in the academics. Arranged a lecture on Polymer Analysis by Dr. Oliver Burt, Manager, M/s. Water India Private Limited. Alumni Association has sponsored to renovate Lecture Hall No. I into A/c. Conference Hall, established a Computer Lab in the Department.
- ❖ The Alumni Association has arranged for some guest lectures during 2019-20 by the elite alumni NRI members.
- ❖ Dr Usha Raju and Dr Krishnam Raju, the NRI Alumni of the department donated inverter facility in November 2017 to the lecture hall renovated by them earlier.
- ❖ Dr MSN Reddy, Managing Director, MSN Labs Pvt. Ltd., Alumnus of the Department had contributed greatly in the restructuring and reviving of the MSc Final Year Labs of the Department. This was done under the coordination of the Alumni Association with Osmania University Chemistry Foundation, a group of elite Alumni of the department consisting of the industrialists, bureaucrats and NRIs. The programme was coordinated by Dr A Bhaskar Reddy, the General Secretary of the Chemistry Alumni Association
- ❖ On this occasion, a motivational talk by Dr MSN Reddy was also arranged by the Alumni Association for the MSc students.
- ❖ Periodic Table @ 150 : Some Stories “Inspirational Talk by Prof. V. Chandrasekhar, Director, TIFR Centre, Hyderabad and Alumnus of Department of Chemistry on the occasion of the superannuation of Prof. Battu Satyanarayana, HoD, Department of Chemistry, OU, on 30th September, 2019.
- ❖ Guest lecture by Dr. S. Chandra Sekhar, Director, CSIR-IICT and Alumnus of Department of Chemistry on “13th -21st Century: The Saga of Science on 30th October at 10 am Lecture hall 1, Department of Chemistry, OU, on the eve of superannuation of Dr. NJP Subhashini, Asst. Prof. Department of Chemistry, Osmania University.

13. Academic Profile of the Department – Statistical data

13.1 (a) Status of Faculty Strength

Sl. No	Sanctioned				Number of Posts							
					Filled				Vacant			
	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

(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
1	Chemistry	“Sesquicentennial IYPT 2019”	State	1 Day & 30th October 2019	UGC-UPE-FAR	
2	Chemistry	International Conference on Material Science for Societal Advancement	International	20-22, January 2020	UGC-UPE-FAR	

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	One day Molecular Modeling Workshop using Open source software's	Teaching and Research	15 th February 2020		
2	Chemistry	5-Day workshop on Introduction to Gaussian 16: Theory and Practice	Teaching and Research	20 th to 24 th January 2020.		

13.5. Details of Major research projects sanctioned during the year

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

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
	Chemistry	2019	II	67 Lakhs	-	1	

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	106	190.99	11	

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
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1	2	3	4	5	6	7

13.11. Awards / distinctions received by the teacher **(Please refer to 5.5)**

Sl.No	Name of the Department	Name of the teacher	Name of the Award	International/ National / State level	Nature of award
1	2	3	4	5	6
1	Chemistry	Prof. M. Vijjulatha	Best Teacher Award	State Level	- Government of Telangana. on 5 th Sept 2019.
(Please refer to 5.5)					

13.12. Faculty distinction – nominated / elected to State / National / International bodies **(Please refer to 5.5)**

Sl.No	Name of the Department	Name of the teacher	Membership / Distinction earned	Organization	International / National / State level
1	2	3	4	5	6
(Please refer to 5.5)					

13.13. Collaborative academic programs with other universities / organizations / industries - **none-**

Sl.No	Name of the Department	Name of the program	Nature of Collaboration	Collaborating organization & Country	Objectives of MoU
1	2	3	4	5	6

13.14. Department-wise Ph.Ds. awarded

Sl.No	Name of the Department	No. of Ph.Ds. degrees awarded	No. tested with plagiarism software
1	2	3	4
	Chemistry	65	65

13.15. Department –wise M.Phils awarded - **course is not offered by the department**

Sl.No	Name of the Department	No. of M.Phils. degrees awarded	No. tested with plagiarism software
1	2	3	4

13.16. Faculty on editorial board of refereed research journals.

Sl.No	Name of the Department	Name of the Teacher	Status on the Editorial Board	Name of the Journal	ISSN Number	Periodicity of Publication	Year of inception of the Journal	Impact factor of the Journal
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
1	Chemistry	Dr. P. Muralidhar Reddy	01	-	National	India	

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				
		NET	TSSET	UPSC Civil Services	TSPSC G-1	Total
1	2	3	4	5	6	7
1	Chemistry	CSIR-JRF NET-1				
2						

Any other information.

Students' Placement Information:

Placements (2019-2020)	
1	Mr R Akhil of MSc Final year Organic Chemistry has been selected in FIIT-JEE OU campus placements.
2	Ms. A Sathya, Ms. A Uma Maheshwari, Ms. A Keerthana, Mr. B. Rakesh, Mr. T. Anil Kumar, Mr. Mustaid Ahmed and Mr. E. Vijay Kumar of M.Sc Final year Organic Chemistry have been selected in GVK-Biosciences at the placements held in University College of Science, Saifabad.
3	Mr. B.Rakesh and Ms. J. Rishitha have been selected in Chegg India Placements of OU.

Extra Circular Activities/Sports (2019-2020)

- 1 Ms. Mamatha sri & Ms Mounica from M. Sc Final year Physical chemistry and Inorganic chemistry specializations respectively won the first prize in the Quiz competition of “National Science Day Celebrations – CHETNA-2K20” conducted by RBVRR Women’s College, Narayanaguda on 25th February 2020
 - 2 Mr Rajkumar & Mr Harish of MSc Chemistry I year bagged second prize in the Quiz competition of “National Science Day Celebrations – CHETNA-2K20” conducted by RBVRR Women’s College, Narayanaguda on 25th February 2020
 - 3 Ms. Harshath Bhanu and Ms. Vinitha of MSc I year won first prize in the e-poster competition of “National Science Day Celebrations – CHETNA-2K20” conducted by RBVRR Women’s College, Narayanaguda on 25th February 2020
 - 4 Ms. G Sirisha of MSc I year won second prize in the Rangoli competition conducted by ABVP on the 28th of February 2020 in Osmania University.
 - 5 Mr Saibabu of M.Sc Final year Organic Chemistry specialization won first prize in Chess competition held at University College of Science, OU in February 2020.
 - 6 The team of MSc I year and final year students of Dept. of Chemistry won first prize in the Kabbadi competition held at University College of Science, OU in February 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	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
2	Dasari Shiva Shankar, Nirmala Ganji, Sreenu Daravath, Kadatala 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
3	Sundeeep Kadasi, Ravali Yerroju, Swetha Gaddam, Nikhila Pullanagiri, Meghana Chary, Divya Pingili, Nulgumnalli Manjunathaiah Raghavendra, Shivaraj	<i>Arch Pharm Chem Life Sci</i> . 2019;e1900192.	Discovery of N-pyridoyl- Δ^2 -pyrazolines as Hsp90 inhibitors	2020/IF=2.59
4	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

5	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
6	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
7	Sreenu Daravath , Aveli Rambabu , Dasari Shiva Shankar, Shivaraj	<i>Chemical Data Collections</i> , 24 (2019) 100293	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	2019/IF=0.94
8	Sunitha Gurralla, Shivaraj , CVS Subrahmanyam, Panikumar Durga Anumolu, Gowthami Saraf	<i>Indian Journal of Pharmaceutical Education and Research</i> , 2019; 53(4s):s699-s709.	Analytical Quality by Design Assisted HPLC Method for Quantification of Canagliflozin/ Metformin and Stability Studies	2019/IF=0.180
9	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
10	Kadtala Venkateswarlu, Nirmala Ganji, Sreenu Daravath, Kumar Kanneboina, Krishnan	<i>Polyhedron</i> , 171 (2019) 86–97.	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	2019/IF=2.284

	Rangan, Shivaraj			
11	Sreenu Daravath, Aveli Rambabu, Narendrula Vamsikrishna, Nirmala Ganji and Shivaraj	<i>Journal of Coordination Chemistry</i> , 72 (2019) 1973-1993.	Synthesis, structural characterization, antioxidant, antimicrobial, DNA incision evaluation and binding investigation studies on copper(II) and cobalt(II) complexes of benzothiazole cored Schiff bases	2019/IF=1.68
12	Nayeem Pasha, N. Lingaiah, Shivaraj	<i>Catalysis Letters</i> , Vol. 149, pp 2500- 2507.	Zirconium Exchanged phosphotungstic acid Catalysts for Esterification of Levulinic Acid to Ethyl Levulinate	2019/IF=2.37
13	Sravanthi Siliveri, Harinadha Babu Vamaraju, and Shivaraj	<i>Russian Journal of Bioorganic Chemistry</i> , 45 (2019), 381-390.	Design, Synthesis, Molecular Docking, Admet Studies And Biological Evaluation Of Pyrazoline and Isoxazole Incorporating 1,2,3-Triazole Benzene Sulphonamides	2019/IF=0.90
14	Sravanthi Siliveri, Nagaraju Bashaboina, Harinadha Babu Vamaraju, and Shivaraj	<i>International Journal of Pharmacy and Pharmaceutical Sciences</i> , 11 (2019), 0971-1491.	Design, Synthesis, Molecular Docking, Admet Studies And Biological Evaluation Of Pyrazoline Incorporated 1,2,3-Triazole Benzene Sulphonamides	2019/IF=0.60
15	Sravanthi Siliveri, Harinadha Babu Vamaraju, and Shivaraj	<i>Asian Journal of Chemistry</i> , 31 (2019), 2389-2393.	Synthesis and biological evaluation of furo[3,2-c] pyrazole-5-carbimides	2019/IF=0.30
16	V. Sumalatha, Aveli Rambabu, Narendrula Vamsikrishna, Nirmala Ganji, Sreenu Daravath and Shivaraj	<i>Chemical Data Collections</i> , 20 (2019) 100213.	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	2019/IF=0.90
17	Nayeem Pasha, P. Krishna Kumari, N. Vamsikrishna, N. Lingaiah, N J P Subhashini and	<i>Indian Journal of Chemistry</i> , Vol. 58A, March 2019, pp. 313-320.	Conversion of fructose into 5-hydroxymethylfurfural over mesoporous-ZrO ₂ - phosphomolybdic acid nanocomposite catalysts,	2019/IF=0.483

	Shivaraj			
18	Aveli Rambabu, Marri Pradeep Kumar, Nirmala Ganji, Sreenu Daravath and Shivaraj	<i>Journal of Biomolecular Structure and Dynamics</i> , /doi.org/10.1080/07391102.2019.1571945 .	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	2019/IF=3.31
19	S. Sandhya Rani, N.J.P. Subhashini and Shivaraj	<i>International Journal of Pharmaceutical Science and Research</i> , 10(6):1000-07, 2019.	Synthesis of Novel 1,3-Indanedione Derivatives and pharmacological Evaluation as Anti-Microbial, Anti-Oxidative agents.	2019/IF=0.83
20	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
21	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
22	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
23	K. Rajeshwari, P. Vasantha, B.S. Kumar, B. Shekhar, P.V. Anantha Lakshmi	<i>Applied Organometallic Chemistry</i> , 2020, 34:e5351	Water Soluble Nickel – metformin ternary complexes: Thermal, DNA binding and molecular docking studies	2020/IF=3.581
24	B. Shekhar, P. Vasantha, B. S. Kumar, P.V. Anantha Lakshmi	<i>Applied Organometallic Chemistry</i> , 2019, 33:e5086	Chromium-metformin ternary complexes: Thermal, DNA interaction and Docking studies	2019/IF=3.581

25	Rambabu Gundeboina, Suresh Gadasandula, Vijay Kumar Velisoju, Naresh Gutta, Laxma Reddy Kotha, Hari Padmasri Aytam	<i>Chemistry Select</i> 4(2019) (1), 202-210; ISSN: 2365-6549	Ni-Al-Ti Hydrotalcite Based Catalyst for the Selective Hydrogenation of Biomass-Derived Levulinic Acid to γ -Valerolactone	2019/IF=1.505
26	Rambabu Gundeboina, Vijay Kumar Velisoju, Naresh Gutta, Sudhakar Medak, Hari Padmasri Aytam	<i>Reac Kinet Mech Cat.</i> , 2019, online, 1-16, ISSN 1878-5190	Influence of surface Lewis acid sites for the selective hydrogenation of levulinic acid to γ -valerolactone over Ni-Cu-Al mixed oxide catalyst	2019/IF=1.515
27	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
28	B.Kavitha, M.Sravanthi, P.Saritha Reddy	<i>Journal of Molecular Structure</i> , 1185, 5 June 2019, 153-167. DOI: 10.1016/j.molstruc.2019.02.093	DNA interaction,docking,molecular modeling and biological studies of o-Vanillin derived Schiff base metal complexes	2019/IF=2.463
29	M. Sravanthi, B. Kavitha and P. Saritha Reddy	<i>International Research Journal of Pharmacy</i> , 2019, 10 (3) 215-220. DOI: 10.7897/2230-8407.1003107	Green route for efficient synthesis of biologically active Schiff base ligand derived from 2-hydroxyacetophenone - Structural,spectroscopic,Ant imicrobial and Molecular modeling studies.	2019/IF=0.20
30	Pulimamidi Saritha Reddy	<i>International journal of Pharmaceutical sciences and research</i> , 2019, 10(11), 5194-5202	Co(II), Ni(II), Cu(II) complexes of sulphur containing Schiff base ligand- synthesis, spectroscopic, molecular modeling and antimicrobial studies	2019/IF=0.33
31	P. Ramesha, V. Srinivasa Rao, P.	<i>Letters in Drug Design &</i>	Synthesis, biological evaluation and molecular	2020/IF=1.169

	Muralidhar Reddy, K. Suresh Babu and M. Srinivasa Rao	<i>Discovery</i> , 2020, 17(7), 873-883	modeling studies of novel C(7) modified analogues of chrysin	
32	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
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	<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
34	Sampath Bitla, Ramulu Dhanavath, P. Muralidhar Reddy , Saritha Birudaraju, Someswar rao Sagurthi, Akkiraju Anjini Gayatri, B. Vijaya Kumara, Krisham Raju Atcha,	<i>Molecular Structure</i> , 2020, 1220, 128705, (https://doi.org/10.1016/j.molstruc.2020.128705)	Design and Synthesis of Triazole Conjugated Novel 2,5-Diaryl Substituted 1,3,4- Oxadiazoles as Potential Anti-microbial and Antifungal Agents	2019/IF=2.463
35	Ashish Chhaganlal	Nanomaterials 2020, 10(7), 1318,	Room Temperature Magnetic Memory Effect in	2020/IF=4.324

	Gandhi,Tai-Yue Li,B. Vijaya Kumar, P. Muralidhar Reddy , Jen-Chih Peng,Chun-Ming Wu and Sheng Yun Wu	(https://doi.org/10.3390/nano10071318) ,	Cluster-Glassy Fe-doped NiO Nanoparticles	
36	Srinivas Kunta, Ramesh Balaboina, Narasimha Swamy Thirukovela, Manda Srinivas, Ravinder Vadde, Satyanarayana Mavurapu, P. Muralidhar Reddy and Chandra Sekhar Vasam	<i>J. Appl. Chem.</i> , 2019, 8 (2), 496- 503	Synthesis Rh(III) Mononuclear Complexes of Polar Tertiaryphosphines for Aqueous Biphasic Catalysis	2019/IF=0.894
37	S. Siddappa, M. Radhika and P. Muralidhar Reddy	<i>J. Appl. Chem.</i> , 2019, 8 (3), 933- 938	Zeolite-Encapsulated Zinc (II)-Amino Acid Complex: Synthesis and Spectroscopy	2019/IF=0.894
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43	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> , 2020, 4, 4754–4767.	Cost-effective thiophene-assisted novel dopant free hole transport materials for efficient perovskite solar cell performance,	2020/IF=5.508
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52	Naveen Reddy Pailla and Bhaskar Kuthati	<i>International Journal of ChemTech Research</i> , 2020,13(3): 210-217. DOI= http://dx.doi.org/10.20902/IJCTR.2019.130318	Spectrophotometric determination of Clinidipine, Efavirenz, Prazosin drugs by using Folin-Ciocalteu Reagent	2020/IF=0.33
53	Naveen Reddy Pailla and Bhaskar Kuthati	<i>World Journal of Pharmaceutical Research</i> , 2020, Volume 9, Issue 5, 1164-1178	Spectrophotometric Determination Of Drugs And Pharmaceuticals By Using Folin-Ciocalteu Reagent	2020
54	Nagula Narsimha, Palreddy Ranjithreddy, Jaheer Mohmed, P. Sujitha and Ch. Sarala Devi	<i>J. Indian Chem. Soc.</i> , Vol. 96, March 2019, pp. 347-360	Synthesis, characterization, DNA cleavage, docking and cytotoxic studies of novel nalidixic acid hydrazone and its CuII, NiII and CoII complexes	2019/IF =

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56	Ravi Mudavath , Vuradi Ravi Kumar, B. Ushaiah, Ch. Kishan Prasad, K. Sudeepa, P. Ravindar, S. N. T. Sunitha and Ch. Sarala Devi ,	<i>doi.org/10.1080/07391102.2019.1647878, Journal of Biomolecular Structure and Dynamics.</i>	Molecular docking, QSAR properties and DNA/BSA binding, anti-proliferative studies of 6-methoxy benzothiozole imine base and its metal complexes.	2019/IF = 3.310
57	Ravi Mudavath, Vuradi Ravi Kumar, B. Ushaiah, Nagula Narsimha, Kunche Sudeepa, Ch. Sarala Devi	<i>DOI:10.1080/15257770.2019.1618470, Nucleosides, Nucleotides and Nucleic Acids.</i>	Design, Synthesis, <i>In vitro</i> Anticancer, Antioxidant and Antibacterial activity; DNA/BSA Binding, Photoleavage and Docking studies of Cu(II) Ternary Metal Complexes,	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,	<i>European Journal of Medicinal Chemistry, Vol. 162, 334-347, 2019</i>	Targeting PUMA/Bcl-xl interaction by new specific compounds to unleash apoptotic rocess in cancer cells	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,	<i>ARKIVOC, 96-107, 2019</i>	Synthesis and biological studies of new quinazolines with ether functions in position 2	2019/IF = 1.253

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61	Jeevan reddy Miryala, Anuj Tripathi, Chetti Prabhakar, Debajit Sarma, Someshwar Pola and Battu Satyanarayana.	<i>Journal of Molecular Structure, (Elsevier), Vol.1184, (2019), 193-199.</i>	Eco-friendly synthesis, crystal structures, photophysical properties and DFT studies of new N- arythiazole-5-carboxamides,	2019/IF = 2.011
62	RamaKrishna Munnaluria, Saikiran Reddy Peddia, Sree Kanth Sivan, Vijjulatha Manga*	<i>Computational Biology and Chemistry 78 (2019) 81–94.</i>	Computational studies on N-phenyl pyrrole derivatives as MmpL3 inhibitors in Mycobacterium tuberculosis	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	<i>Journal of Molecular Structure 1180 (2019) 355e362</i>	Novel benzosuberone conjugates as potential anti- proliferative agents: Design, synthesis and molecular docking studies	2019/IF = 2.011
64	Krishnaiah Vaarla, Santosh Karnewar, Devayani Panuganti, Saikiran Reddy	<i>ChemistrySelect 2019, 4, 4324 – 4330.</i>	3-(2-(5-Amino-3-aryl-1H- pyrazol-1-yl)thiazol-4-yl)- 2H-chromen-2-ones as Potential Anticancer Agents: Synthesis, Anticancer Activity	2019/IF = 1.716

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65	Ramesh Itteboina, Srilata Ballu, Sree Kanth Sivan & Vijjulatha Manga	<i>Journal of Receptors and Signal Transduction</i> , 38:5-6, 462-474, DOI: 10.1080/10799893.2019.1585453	Molecular docking, 3D-QSAR, molecular dynamics, synthesis and anticancer activity of tyrosine kinase 2 (TYK 2) inhibitors,	2019/IF = 2.2
66	CH B Praveena Devi, K Vijay, B Hari Babu, Syed Farooq Adil, M Mujahid Alam, M Vijjulatha , Mohd Bismillah Ansari	<i>Journal of Saudi Chemical Society</i> 2019 https://doi.org/10.1016/j.jscs.2019.05.002	CuSO ₄ /sodium ascorbate catalysed synthesis of benzosuberone and 1,2,3-triazole conjugates: Design, synthesis and in vitro anti-proliferative activity	2019/IF = 2.759
67	D. Ashoka, E. V. L. Madhuria, , M. Sarasija, S. Sree Kanth, M. Vijjulatha , Akkiraju Anjini Gayatri, Someswar Rao Sagurthi, N. Sai Krishna	<i>Russian Journal of General Chemistry</i> , 2019, Vol. 89, No. 10, pp. 2129–2135.	Synthesis of Biaryl Derivatives of Spirofurochromanone in Water and Their Anticancer Activity	2019/IF = 0.643
68	V. Radhika · S. Sree Kanth P. Saikiran Reddy · M. Vijjulatha	<i>Journal of Computer-Aided Molecular Design</i> 34, 39-54 (https://doi.org/10.1007/s10822-019-00258-0) 2020	Computational design, synthesis and evaluation of new sulphonamide derivatives targeting HIV-1 gp120	2019/IF = 3.220
69	Sudhir Reddy Peddi, Saikiran Reddy Peddi, Sreekanth Sivan, Radhika Veerati and Vijjulatha Manga	<i>Journal of Receptors and Signal Transduction</i> , https://doi.org/10.1080/10799893.2020.1713809 2020	Integrated molecular docking, 3D QSAR and molecular dynamics simulation studies on indole derivatives for designing new Pim-1 inhibitors	2019/IF = 1.629
70	Prashanth Kumar Kolluri, Nirmala Gurrupu, N.J.P. Subhashini,	<i>Journal of Molecular Structure</i> , 2020, Vol 1202,	Design, synthesis of novel (Z)-2-(3-(4-((3-benzyl-2,4-dioxothiazolidin-5-ylidene)methyl)-1-phenyl-1H-	2019/IF = 2.120

	Shravani Putta, Surya Sathyanarayana Singh, Tamalapakula Vani, Vijjulatha Manga	https://doi.org/10.1016/j.molstruc.2019.127300	pyrazol-3-yl)phenoxy)-N-arylacetamide derivatives: Evaluation of cytotoxic activity and molecular docking studies	
71	N. J. P. Subhashini · Kolluri Prashanth Kumar · Edigi Praveen Kumar · Putta Shravani Surya Sathyanarayana Singh Tamalapakula Vani · Manga Vijjulatha	<i>Molecular Diversity</i> , https://doi.org/10.1007/s11030-020-10093-3 2020	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	2019/IF = 2.229
72	Ravinder Dharavath, Nalaparaju Nagaraju, M. Ram Reddy, D. Ashok, M. Sarasija, M. Vijjulatha , Vani T, K. Jyothi and G. Prashanthi	<i>RSC Adv.</i> , 2020, 10, 11615	Microwave-assisted synthesis, biological evaluation and molecular docking studies of new coumarin based 1,2,3-triazoles	2019/IF = 3.049
73	S Mamidala, VS Mudigunda, SR Peddi, KK Bokara, V Manga , RR Vedula	<i>Synthetic Communications</i> , 1-14, 2020.	Design and synthesis of new thiazoles by microwave-assisted method: Evaluation as an anti-breast cancer agents and molecular docking studies	2019/IF = 1.796
74	Pulimamidi Rabindra Reddy, Merugu Kumara Swamy and Battu Satyanarayana	<i>BAOJ Cancer Research & Therapy</i> 5(1) (2019), p064.	New copper(II) 2-(Quinolin-2-YI) Quinazolin-4(3H)-one complex and study of its DNA binding, antibacterial, docking and cytotoxic properties	2019/IF =
75	K. R. Vijayapal Reddy and T. V. D. Prasad Rao*	<i>Heterocyclic Letters</i> , Vol. 9/ No.1/35-39, 2019	Polyaniline sulfate salt mediated one-pot three-component synthesis of triheterocyclic 4h-pyrimido[2,1-b]benzothiazole derivatives ;	2019/IF =

76	K. R. Vijayapal reddy and T.V. D. Prasad rao*	<i>Heterocyclic Letters</i> , Vol. 9/ No.3/289-294, 2019	Polyaniline sulfate salt catalyzed one-pot three-component synthesis of 2 <i>h</i> -indazolo[2,1- <i>b</i>]phthalazine-triones	2019/IF =
77	Gugulothu Yaku, Bandi Rajkumar and T. V. D. Prasad Rao*	<i>Journal of Applicable Chemistry</i> , 2019, vol 8 (2): 477-484	Photo-Induced Synthesis of Silver Nanoparticles using, <i>Syzygium cumini</i> Fruit Peels Extract Characterization and Antibacterial Activity Studies.	2019/IF = 1.211
78	D. Ashok , N. Nagaraju, Ravinder Dharavath, M. Ram Reddy, K. Ramakrishna and M. Sarasija	<i>Asian Journal of Chemistry</i> (2019), 31 (7), 1495-1500.	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	2019/IF = 0.141
79	Ravi Guguloth, Ayodhya Dasari, Ashok Dongamanti , Sarasija Madderla, Kumari Lunavath Shanthi	<i>Nano convergence</i> (2019), 6 (1), 12.	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	2019/IF = 3.324
80	Ashok, Dongamanti , Devulapally, Mohan Gandhi; Aamate, Vikas Kumar; Gundu, Srinivas; Adam, Shaik; Murthy, S. D. S.; Balasubramanian, Sridhar; Naveen, Baidla; Parthasarathy, Tigulla	<i>Journal of Molecular Structure</i> (2019), 1177, 215-228.	Novel pyrano [3,2- <i>b</i>] xanthen-7(2 <i>H</i>)-ones: Synthesis, antimicrobial, antioxidant and molecular docking studies	2019/IF = 2.011
81	Ashok, Dongamanti; Kavitha, Rangu; Gundu, Srinivas; Sarasija, Madderla	<i>Journal of the Serbian Chemical Society</i> (2019), 84 (3), 237-244.	Microwave-assisted synthesis and antimicrobial evaluation of 6-[3-aryl-1-phenyl-4',5'-dihydro[4,5'-bi-1 <i>H</i> -pyrazol]-3'-yl]-2 <i>H</i> -chromen-5-ols	2019/IF = 0.977

82	D. Ravi Kumar, Syed Ismail Ahmad, Ch. Abraham Lincoln & D. Ravinder,	Journal of Asian Ceramic Societies 7(1) (2019) 53-68	Structural, optical, room-temperature and low-temperature magnetic properties of Mg–Zn nanoferrite ceramics	2019/IF = 0.589
83	K. S. Kumar, P. K. Naikawadi, R. Jatoth, R. Dandela	Org. Biomol. Chem., 2019, 17, 7320– 7324	Bimetallic Cu/Pd-catalyzed three-component azide–alkyne cycloaddition/isocyanide insertion: synthesis of fully decorated tricyclic triazoles	2019/IF = 3.564
84	S. R. Meesa and P. K. Naikawadi, K. Gugulothu, K. S. Kumar	Org. Biomol. Chem., 2020, 18, 3032-3037.	Catalyst and solvent switched divergent C–H functionalization: oxidative annulation of N-aryl substituted quinazolin-4-amine with alkynes	2019/IF = 0.589
85	Raju Jannapu Reddy, Arram Haritha Kumari, Jangam Jagadesh Kumar and Jagadeesh Babu Nanubolu	Adv. Synth. Catal. 2019, 361, 1587–1591.	CS ₂ CO ₃ -Mediated Vicinal Thiosulfonylation of 1,1-Dibromo-1-Alkenes with Thiosulfonates: An Expedient Synthesis of (E)-1,2-Thiosulfonylethenes	2019/IF = 5.451
86	Ravi Guguloth, Ayodhya Dasari, Ashok Dongamanti, Sarasija Madderla, Kumari Lunavath Shanthi	Nano Convergence, 2019, 4, 43-54.	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	2019/IF = 3.324
87	R. J. Reddy,* J. J. Kumar and A. H. Kumari	Eur. J. Org. Chem., 2019, 3771-3775.	Unprecedented Reactivity of beta-Iodovinyl Sulfones: An Efficient Synthesis of beta-Keto Sulfones and beta-Keto Thiosulfones	2019/IF = 3.029
88	R. J. Reddy,* A. Shankar and A. H. Kumari	Asian J. Org. Chem., 2019, 8, 2269-2275.	Efficient, Sequential One-Pot Approach for Diverse C3-Functionalized Imidazo[1,2- <i>a</i>]-pyridines Under Transition-Metal Free Conditions	2019/IF = 2.496

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90	Perala Venkataswamy, Manasa Sunku, Ravi Gundeboina, Radha Velchuri and M. Vithal	<i>Catalysis Letters</i> , 2019, 149, 2332–2346	Fabrication of Novel Ag/AgBr/Cs ₂ Nb ₄ O ₁₁ Ternary Composite for Visible-Light Driven Photocatalysis	2019/IF = 2.320
91	P. Venkataswamy, D. Devaiah, D. Jampaiah, D. Mukherjee, M. Vithal , B. M. Reddy	<i>Catalysis Letters</i> , 2019, doi.org/10.1007/s10562-019-03014-z	Cr-doped CeO ₂ Nanorods for CO Oxidation: Insights into Promotional Effect of Cr on Structure and Catalytic Performance	2019/IF = 2.320
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93	Vimala Kanikireddy, K. Kanny, Y. Padma, Radha Velchri, Gundeboina Ravi, B. Jagan Mohan Reddy, and Muga Vithal ,	<i>J. Appl. Polym. Sci.</i> 2019, 136, 47331.	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>)	2019/IF = 2.188
94	Ashok, Dongamanti , Devulapally, Mohan Gandhi; Aamate, Vikas Kumar; Gundu, Srinivas; Adam, Shaik; Murthy, S. D. S.; Balasubramanian, Sridhar; Naveen, Baindla; Parthasarathy, Tigulla	<i>Journal of Molecular Structure</i> , 2019, 1177, 215-228.	Novel pyrano [3,2-b]xanthen-7(2H)-ones: Synthesis, antimicrobial, antioxidant and molecular docking studies,	2019/IF = 2.123

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97	R. J. Reddy ,* J. J. Kumar, A. H. Kumari and G. R. Krishana	<i>Adv. Synth. Catal.</i> 2020, 362, 1317-1322.	Pd-Catalyzed Annulation of β -Iodovinyl Sulfones with 2-Halophenols: A General Route for the Synthesis of 3-Sulfonyl Benzofuran Derivatives	2020/IF = 5.451
98	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
99	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
100	P. Venkataswamy, M. Sudheera, K. Vaishnavi, K. Ramaswamy, G. Ravi, M. Vithal	<i>Journal of Electronic Materials</i> , 2020, 49, 2358–2370	A New Ag/AgBr/LaAlO ₃ Plasmonic Composite: Synthesis, Characterization, and Visible-light Driven Photocatalytic Activity	2020/IF = 1.676

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103	M. Nagamania , P. Jalapathia * , B. Shankara , M. Neelammaa , and T. M. Krishna	<i>Russian Journal of General Chemistry</i> , 2019, Vol. 89, No. 5, pp. 998–1002., 2019.	An Efficient Oxidative Difunctionalisation of 2-Amino-2H-chromene and Antimicrobial Activity of the Synthesized Tetrahydrochromene Derivatives	2020/IF=0.716
104	Guguloth Vijaya Charan and Tirukova Manjula	<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	An Efficient, Green synthesis of Ethyl/Methyl 4-(3-Aryl-1Phenl-1H-Pyrazol-4-yl)-6-Methyl-2-oxo-1,2,3,4-Tetrahydropyrimidine-5-Carboxylates	2019/IF=0.47
105	Vijayacharan Guguloth , Battu Satyanaryana*	<i>Heterocyclic Letters</i> 9: iss.-4 (2019), 417- 426	Stable, reusable MoO ₃ /ZrO ₂ solid acid catalyst for the synthesis of Diphenylmethane via Friedel-Craft alkylation under solvent free condition.	2019