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## Research Publications

### 2022

Dr. Sudha swaraga M, faculty, Department of Chemistry had participated and presented a research paper titled "Protection of Adenosine-5'-Monophosphate from Sulphate Radical Anion by Caffeic Acid under Anoxic Conditions: A Kinetic and Mechanistic Study in Two Day International seminar on current trends and futuristic challenges in Chemical Sciences organized by Department of Chemistry University College of Science ,Osmania University on 29th & 30th July,2022.

Ms. Archana Juyal has participated and presented in a NAAC sponsored Two Day National Seminar on 'Promoting Quality Research and Innovations in Higher Educational Institutions' with paper entitled RBVRRNS-053: Challenges and Implementations towards Innovation in Higher Educational Institutions at RBVRR Women's College , Narayanguda,Hyderabad on 4-5 March,2022.

Dr. Ch Snehalatha has participated and presented in a NAAC sponsored Two Day National Seminar on 'Promoting Quality Research and Innovations in Higher Educational Institutions' with paper entitled RBVRRNS-053: Challenges and Implementations towards Innovation in Higher Educational Institutions at RBVRR Women's College , Narayanguda,Hyderabad on 4th-5th March,2022.

U.S.V.R. Hymavathi has participated and presented in a NAAC Sponsored Two Day National Seminar on " Promoting Quality Research and Innovations in Higher Educational Institutions" with paper entitled RBVRRNS-041: Strategies To Foster the Ecosystem For Innovation and Startups In Higher Educational Institutes"at RBVRR Women's College, Narayanguda, Hyderabad , Telangana, March 4 - 5, 2022.

Dr. Sudha Swaraga has participated and presented in a NAAC Sponsored Two Day National Seminar on " Promoting Quality Research and Innovations in Higher Educational Institutions" with paper entitled RBVRRNS-041: Strategies To Foster the Ecosystem For Innovation and Startups In Higher Educational Institutes"at RBVRR Women's College, Narayanguda, Hyderabad , Telangana, March 4 - 5, 2022.

Alwala Hemalatha has participated and presented in a NAAC Sponsored Two Day National Seminar on " Promoting Quality Research and Innovations in Higher Educational Institutions" with paper entitled RBVRRNS-045: Research And Innovations -The Important Pillars For Nation Building."at RBVRR Women's College, Narayanguda, Hyderabad , Telangana, March 4 - 5, 2022.

Ms. Bharti Ahuja has participated and presented in a NAAC Sponsored Two Day National Seminar on " Promoting Quality Research and Innovations in Higher Educational Institutions" with paper entitled RBVRRNS-045: Research And Innovations -The Important Pillars For Nation Building."at RBVRR Women's College, Narayanguda, Hyderabad , Telangana, March 4 - 5, 2022.

### 2021

Ms. Archana Juyal presented a paper titled 'A survey based analysis of the challenges in Teaching Chemistry during Pandemic' in an International Conference on 'Conventional and Digital Methods in Chemical Education from 29th to 31st July, 2021 organized by the Department of Chemistry, National Institute of Technology,(NIT) Warangal.

Ms. Nazreen Saba presented a paper titled 'Impact of Industry- Academia Interface on Innovative curriculum Design' in an International Conference on 'Conventional and Digital Methods in Chemical Education from 29th to 31st July, 2021 organized by the Department of Chemistry, National Institute of Technology,(NIT) Warangal.

Ms. Bharti Ahuja has presented a paper on 'Statistical Analysis of Air Quality and its changes in ICRISAT (Patancheru) area of Hyderabad, Telangana State of India during pre and post Covid -19,

Pandemic in the National Conference on Recent Advancements in Pharmaceutical, Agriculture, Science and Health care System' in collaboration with (IJPSCR) organized by Career point University (CPU), Kota on 17th and 18th June, 2021

Dr. Sudha Swaraga presented a paper titled 'Protection of Adenosine-5'-monophosphate from sulfate radical anion by caffeic acid under anoxic conditions, A kinetic and mechanistic study' in the International conference, Two Day International e- Conference on Applied Biosciences for Sustainable Development on 3rd to 4th September organized by Department of Microbiology & Biochemistry, St.Pious X Degree & PG College for Women.

Dr. Snehalatha has presented a paper titled 'Preparation of simple and complex poly of esters from Jatropha oil fatty acids and its derivatives and evaluation of lubricants properties in the International e- Conference 'Applied Bioscience for sustainable development on 3rd to 4th September organized by Department of Microbiology & Biochemistry, St.Pious X Degree & PG College for Women

### **2019**

Dr.Mala Das Sharma, Hod Chemistry, Dr.S.Sreedevi, HoD Microbiology & Dr.P.Vijaya Vani are the authors of the book titled "Innovations and Applications in life sciences" ISBN No: 978-93- 86435-72-9, publisher: Ratnaprasad Multidisciplinary Research & Educational Society, Vijayawada, A.P., India.

Dr.Mala Das Sharma and Hemalatha, A.(2019) Spectrophotometer-based analysis of hexavalent chromium in various water bodies of Hyderabad city reveals large anthropogenic input. Journal of Applicable Chemistry, v. 8(3), p. 984–991.

### **2018**

Dr.Mala Das Sharma and Padmalatha, P. (2018) Common Waterborne Diseases Due to Bacterial, Fungal and Heavy Metal Contamination of Waters: A Case Study from Nacharam Area of Hyderabad, India. Pollution, v. 4(2), p. 335–348.

### **2017**

Dr.Mala Das Sharma and Hymavathi, U.S.V.R. (2017) A Novel Approach for Kinetic Study of Alkaline Hydrolysis of Ethyl Acetate. Khimiya/Chemistry (Bulgarian J. of Sci. Education), v. 26(5), p. 754–762.

M SudhaSwaraga(2017) Kinetic and Mechanistic Study of Oxidation of Purine Nucleosides by Sodium Chromate and Hydrogen Peroxide System in Presence of Ascorbic acid and Protection by Riboflavin International Journal of Research in Physical Chemistry; 7(1): 10-16

M SudhaSwaraga (2017) Kinetic and Mechanistic Study of Oxidation of Pyrimidines by Sodium Chromate and Hydrogen Peroxide System in Presence of Ascorbic acid and Protection by Riboflavin. Chemical Science Review and letters, 6(21), 79-87

### **2016**

Dr.Mala Das Sharma, Juyal, Archana, Karuna, M. and Das Sharma, S. (2016) A student-centric research and education program on heavy metal pollution of water bodies — case studies from selected Indian cities. Current Science, v. 111(8), p. 1393–1400.

M SudhaSwaraga (2016) Kinetic and Mechanistic Study of Oxidation of Purines by Sodium Chromate and Hydrogen Peroxide System in Presence of Ascorbic acid and Protection by Riboflavin International Journal of Chemical Sciences, 14(4), 2420-2432

M SudhaSwaraga & M Adinarayana,(2016)- Kinetics and mechanism of protection of uridine-5'-monophosphate from Sulphate radical anion by caffeic acid under anoxic conditions.. ChemSci Rev Lett , 5(19), 191-196

#### 2015

Dr.Mala Das Sharma, Juyal, A., Karuna, M. and Das Sharma, S. (2015) Spectrophotometer-based student education program on health hazard assessment due to Cr(VI) and Pb contamination in surface and groundwaters of Hyderabad City, India. Pollution, v. 1(2), p. 139–149.

M SudhaSwaraga& M Adinarayana (2015) Kinetics and mechanism of protection of guanosine from sulphate radical anion bycaffeic acid under anoxic conditions.,- ChemSci Rev Lett , 4(16), 1117-1123.

#### 2014

Dr.Mala Das Sharma and Karuna, M. (2014) Kinetic Study of Catalytic Decomposition of Hydrogen Peroxide by Aqueous Fe<sup>3+</sup> Ion — A Green Chemistry Approach. Chem. Educator, v. 19, p. 18–21

M SudhaSwaraga& M Adinarayana (2014) Kinetics and mechanism of protection of thymine from sulphate radical anion by vitamin E under anoxic conditions. Chemical Science Review and Letters, 11(3), 636-642

M SudhaSwaraga& M Adinarayana (2014) "Kinetics and mechanism of protection of thymidine from sulphate radical anion by caffeic acid under anoxic conditions. International Journal of Chemical Sciences; 12 (2), 403 – 412

#### 2013

Dr.Mala Das Sharma (2013) Design and Fabrication of a Bench-top Gas generator for Four Year Undergraduate Laboratory Classes. World Journal of Chemical Education, v. 1 No. 1, p. 9–11.

- Dr.Mala Das Sharma: A student –centric research and education programme on heavy metal pollution of water bodies from selected Indian cities Current science, 2016, vol-III, 8, pg no 1393-1400
- Dr.Mala Das Sharma & U.S.V.R. Hymavathi: A novel approach for kinetic study of alkaline hydrolysis of ethyl acetate Chemistry: Bulgarian Journalof Science Education,Volume 26, 754 – 762,2017
- Sudha Swaraga.M: Kinetics and mechanism of protection of uridine-5'-monophosphate from sulphate radical anion by caffeic acid under anoxic conditions.Chemical Science Review and letters, 2016, 5(19), 191-196
- Sudha Swaraga.M: Kinetic and Mechanistic Study of Oxidation of Purines by Sodium Chromate and Hydrogen Peroxide System in Presence of Ascorbic acid and Protection by Riboflavin. International Journal of Chemical Sciences, 2016, 14(4), pg 2420-2432,
- Sudha Swaraga.M: Kinetic and Mechanistic Study of Oxidation of Pyrimidines by Sodium Chromate and Hydrogen Peroxide System in Presence of Ascorbic acid and Protection by Riboflavin. Chemical Science Review and letters, 6(21), 79-87, 2017,
- Sudha Swaraga.M: Kinetic and Mechanistic Study of Oxidation of Purine Nucleosides by Sodium Chromate and Hydrogen Peroxide System in Presence of Ascorbic acid and Protection by Riboflavin. International Journal of Research in Physical Chemistry- 2017; 7(1): 10-16