

## RESUME



Name - D.S.N. PRASAD  
Date of Birth - 1<sup>st</sup> July, 1964  
Academic Position - Professor in Chemistry  
Govt. P.G. College, Jhalawar 326001 (Rajasthan)  
Phone (O.) - 07432-232315  
Permanent Address - B-24, Anand Vihar Colony, Civil Line, Jhalawar  
Pin Code - 326001  
Mobile - 9413980550  
Email Address - dsnp308@gamil.com

### **Academic Qualification**

1. M.Sc. in Chemistry , 1<sup>st</sup> Division from Agra University, Agra in 1986
2. M.Phil in Chemistry from Agra University, Agra in 1987

**Topic** - Studies on Strontium Soaps.

3. Ph.D. in Chemistry from University of Rajasthan, Jaipur in 1990 under the supervision of Prof. K.S. Gupta.

**Topic** - Dynamics of Atmospheric Acid Generation Reactions. Metal oxide Catalysed Heterogeneous Aqueous Phase Oxidation of Sulphurdioxide.

Teaching and Res. Exp. - 30 Years

### **Books Published : 4**

- (a) Arun Kumar Sharma, Rashmi Sharma and D.S.N. Prasad (2012) “Applications of FGD Process for removal of Sulphur di Oxide”, ISBN 978-3-8465-9329-5,- by LAP LAMBERT Academic Publishers.
- (b) D.S.N. Prasad, Sameena Begum and Faiyaz Hussain, (2020) “Atmospheric Chemistry of Sulfur Dioxide”, ISBN 978-620-2-55213-4, by LAP LAMBERT Academic Publishers.
- (c) Arun Kumar Sharma, D.S.N. Prasad and Rashmi Sharma (2017) “Acid Rain Chemistry, Catalysis and Inhibition of SO<sub>2</sub> in Environment”, ISBN 978-3-659-91204-7, by LAP LAMBERT Academic Publishers.

(d) Faiyaz Hussain, D.S.N. Prasad and Jaibir Singh (2018) “Kinetics of Metal oxide Catalysed & Organics inhibited S(IV) oxidation”, ISBN 978-613-9-81557-9, by LAP LAMBERT Academic Publishers.

**Research Papers Published : 57**

**Member of Academic Bodies :**

1. Life member of Indian Science Congress Association L-15186
2. Life Member of Rajasthan Science Congress Association L-172

**No. of Ph.D. Awarded : 5**

**No. of Students Working for Ph.D. : 3**

**Member of Academic Bodies :**

Ex- Member of Board of Studies in Chemistry, University of Kota, Kota from 2009-2013  
Member of COC in Chemistry, University of Kota, Kota from 2014

**Workshops Organized :**

1. Instrumentation Workshop Organized in 2022
2. DST Workshop on Entrepreneurship in 2016
3. DST Workshop on Entrepreneurship in 2012
4. DST Workshop on Entrepreneurship in 2009

**Area of Research Interest :**

Reaction Dynamics and Atmospheric Chemistry

D.S.N. Prasad  
Associate Professor  
Department of Chemistry  
Govt. P.G. College Jhalawar

## List of Publications

1.  $\text{Co}_2\text{O}_3$  Catalyzed uncatalysed autoxidation of S(IV) and its inhibition by deferent organic in alkaline medium Himanshu Sharma, D.S.N. Prasad, Upendra Singh, Madhu Sharma, IJRCMS, Vol. 7 (1), 4-10, 2023
2. Kinetics of Uninhibited and Resorcinol Inhibited CoO Catalysed Autoxidation of S (IV) in Alkaline Heterogenous Medium, M. Kumar, Manju Bala Yadav, Suman Khnichi and D.S.N. Prasad, Central Asian J. of Theore. & Appli. Sciences, 2022
3. Kinetics of Isoamyl Alcohol Inhibited Uncatalyzed and CoO Catalyzed Autoxidation of S (IV) in Alkaline Heterogenous, M. Kumar, Manju Bala Yadav and D.S.N. Prasad, Kala Sarovar, 2021
4. Effect of Tartaric Acid on  $\text{Co}_2\text{O}_3$  Catalysed Autoxidation of Aqueous Sulphur Dioxide in Alkaline Medium, H. Sharma and D.S.N. Prasad, Kala Sarovar, 2021
5. Effect of Isopropyl Alcohol on Uncatalyzed and CoO Catalyzed Autoxidation of Aqueous Sulfur Dioxide in Alkaline Heterogeneous Medium, M. Kumar, Manju Bala Yadav and D.S.N. Prasad, The J. of Oriental Res. Madras, 2021
6. The Influence of Ethylene Glycol on the Kinetics of Atmospheric Oxidation of Dissolved  $\text{SO}_2$  Catalysed By CoO in Alkaline Medium, M. Kumar, Ajay Gupta, Manju Bala Yadav and D.S.N. Prasad, The J. of Oriental Res. Madras, 2021
7. Inhibiting Effect of Different Carboxylic Acid on Uncatalysed and  $\text{Co}_2\text{O}_3$  Catalysed Autoxidation of  $\text{SO}_2$  in Alkaline Medium - Brief Comparision, H. Sharma, A.K. Sharma and D.S.N. Prasad, Ann. Chem. Sci Res., 2020
8.  $\text{Co}_2\text{O}_3$  Catalysed Autoxidation of Sulphur Dioxide and Inhibition by Resorcinol, S. Begam, F. Hussain and D.S.N. Prasad, Inter. J. Of Res. In Eng. and Technology, 2020
9. Role of Iso Amyl Alcohol (IAA) on  $\text{CO}_2\text{O}_3$  Catalysed Autoxidation of  $\text{SO}_2$  in Atmospheric Water, S. Begam, F. Hussain and D.S.N. Prasad, Bull. Of Pure and Applied Sciences, 2020
10. Copper Catalyzed Autoxidation of S (IV) Di Oxide and Inhibition by Methanoic Acid, Arun Kumar Sharma and D.S.N. Prasad, Current Physical Chemistry, 2019
11. The Influence of Succinic Acid on the Kinetics of the Atmospheric Oxidation of Dissolved  $\text{SO}_2$  Catalysed by  $\text{CO}_2\text{O}_3$ , H. Sharma, A. K. Sharma, M. Kumar and D.S.N. Prasad, Inter. J. On Emerging Technologirs, 2019
12. Effect of Acetic Acid on  $\text{Co}_2\text{O}_3$  Catalyzed Autoxidation of Aqueous S (IV) Dioxide in Alkaline Medium, Sharma H., Sharma A.K., Parasher P. and Prasad D.S.N., 2019
13. Dynamics of Malonic Acid Inhibited Uncatalysed and  $\text{Co}_2\text{O}_3$  Catalysed Autoxidation of S (IV) In Alkaline Medium, H. Sharma, A.K. Sharma and D.S.N. Prasad, Think india, 2019
14. Oxalic Acid Inhibited  $\text{CO}_2\text{O}_3$  Catalyzed Autoxidation of S (IV) Dioxide in Alkaline Medium, H. Sharma, A.K. Sharma, M. Kumar and D.S.N. Prasad, Accent J. Of Eco. Eco. and Engineering, 2019

15. Effect of Isopropyl Alcohol on Autoxidation of S (IV) Catalyzed  $\text{Co}_2\text{O}_3$  in Alkaline Medium, F. Hussain, S. Begam, A.K. Sharma and D.S.N. Prasad, Bulletin of Pure and Applied Sciences. Sec. C - Chemistry, 2018
16. Kinetics of Sodium Sulphite Oxidation Catalyzed by  $\text{Co}_2\text{O}_3$  and Inhibited by Ethylene Glycol, S. Begam, F. Hussain, Jaibir Singh, A.K. Sharma and D.S.N. Prasad, AJRC, 2018
17. Kinetics and Mechanism of  $\text{Co}_2\text{O}_3$  Catalysed Autoxidation of Sulphite and inhibition By Sodium Benzoate, F. Hussain, S. Begam, A.K. Sharma and D.S.N. Prasad, J. Inst. Chemists (India), 2018
18. Kinetics of Aniline Inhibited Uncatalysed and  $\text{Co}_2\text{O}_3$  Catalysed Autoxidation of S (IV) in Atmospheric Environment, F. Hussain, D.S.N. Prasad, S. Begam, J. Singh and A.K. Sharma, AJCER, 2018
19.  $\text{Co}_2\text{O}_3$  Catalyzed Oxidation of  $\text{SO}_2$  in Aqueous Solution Differing Effect of Benzamide in Alkaline Medium, F. Hussain, S. Begam, A.K. Sharma and D.S.N. Prasad, Chemical Sc. Transaction, 2018
20. Effect of Aliphatic Mono Carboxylic Acids and Alcohols on Silver (I) Catalyzed Oxidation of  $\text{SO}_2$  in Aqueous Solution, A.K. Sharma, R. Sharma and D.S.N. Prasad, J. of Materials and Env. Science, 2018
21. Kinetics and Mechanism of Oxalic Acid Inhibited and Heterogeneous  $\text{Co}_2\text{O}_3$  Catalyzed Autoxidation of S (IV) in Atmospheric Water, H. Sharma, A.K. Sharma and D.S.N. Prasad, Journal of Appli. Chemistry, 2018
22. Influence of Ph and Organics on Autoxidation of S (IV) Catalyzed by Ag (I), Sharma AK and Prasad DSN, Rec. Adv. In Petrochem Sci., 2017
23. Kinetics of Isoamyl alcohol and aniline inhibited uncatalysed and Ag (I) Catalysed Autoxidation of S (IV) in Acidic Medium, A.K. Sharma, R. Sharma and D.S.N. Prasad, Asian J. of Res. In Chemistry, 2017
24. Role of Organics in Atmospheric Catalytic Autoxidation of Aqueous Sulphur Dioxide in Acidic Medium, A.K. Sharma, R. Sharma and D.S.N. Prasad, Malaysian J . Of Chemistry, 2017
25. Ag (I) Catalyzed Oxidation of  $\text{SO}_2$  in Aqueous Solution Differing Effect of Benzoate Ions in Acidic Medium, A.K. Sharma, P. Parasher, R. Sharma and D.S.N. Prasad, Current Physical Chemistry, 2017
26. The Inhibitive Action of Aniline on the Autoxidation of Sodium Sulfite in Acidic Medium, A.K. Sharma, Parasher P., Prasad D.S.N. and R. Sharma, J. of Ana. & Pharm. Research, 2017
27. The Effect of Atmospheric Aromatic Amides on the Ag (I) Catalysed S (IV) Autoxidation in Aqueous Solution, A.K. Sharma, R. Sharma and D.S.N. Prasad, The Experiment J., 2017
28. Ag (I) Catalysed autoxidation of S (IV) and its inhibition by Isopropyl alcohol acidic medium., A.K. Sharma, Pradeep Parashar, A.K. Gupta and D.S.N. Prasad, **Chemical Science Review and Letters**, Vol-5(17), 14-23, (2016)

29. Photocatalytic degradation of Cu (II) soaps derived from palmitic acid in non aqueous using ZnO as photocatalyst, A.K. Sharma, D.S.N. Prasad, R. Sharma, S. Gaur, R. Gaur, at Govt. Women Engineering College Ajmer in NCGCSTS on Jan 11-12, 2016
30. Formic Acid inhibited Ag (I) Catalysed Autoxidation of S (IV) in acidic medium, A.K. Sharma, Pradeep Parashar, A.K. Gupta, R. Sharma and D.S.N. Prasad, **Journal of Chemistry and Chemical Sciences** Vol-5 (12) 760-771 (2015)
31. Kinetics and mechanism of uncatalysed and Ag (I) catalysed autoxidation of S (IV) and its inhibition by Iso amyl alcohol in acidic aqueous solutions, Arun Kumar Sharma, Rashmi Sharma, D.S.N. Prasad, **International Journal of Modern Sciences and Engineering Technology (IJMSET)**, Vol 2, (12), 2015, pp. 31-40
32. Kinetics of formic acid inhibited uncatalysed and  $\text{Co}_2\text{O}_3$  catalysed autoxidation of S (IV) in alkaline medium, Sameena Begam, Faiyaz Hussain, D.S.N. Prasad, 2013, pelagia research library, 4 (1), 122-131
33. Paper entitled "Utility and Application of FGD System (Flue Gas Desulphurization) in Chemical and Environmental Engineering", has been published in **International Journal of Chemical Engineering and Applications (IJCEA)**, A.K. Sharma, D.S.N. Prasad, Shweta Acharya & Rashmi Sharma, 2012, Vol. 3 (2), 129-135
34. Paper entitled "Study of different parameters for removal of Sulphur di oxide contained in flue gases to control air pollution at Rajasthan, India", has been published in **2<sup>nd</sup> International Conference on Biology, Environment and Chemistry (ICBEC-2011)** at Dubai, UAE, A.K. Sharma, D.S.N. Prasad, Shweta Acharya & Rashmi Sharma, 2011, 24, 9-13
35. Effect of Aniline on  $\text{Co}_2\text{O}_3$  Catalysed Autoxidation of Sulfur (IV) In Alkaline Medium, Faiyaz Hussain, Sameena Begam, D.S.N. Prasad, Om Pal Singh and Pradeep Parashar, **Proceedings of National Conference on Green Chemistry-Surfer Chemistry**, 78-82 (2011)
36. Synthesis and Process for Removal of Sulfur Dioxide contained in flue gases in thermal Plants, D.S.N. Prasad, Rashmi Sharma, Sweta Acharya, Meenakshi Saxena and Arun Sharma, *Rasayan Journal of Chemistry*, Vol-3 (2), 328-334 (2010)
37. Kinetics and mechanism of the osmium (VIII) catalysed autoxidation of aqueous sulfur dioxide in acidic and alkaline media, K.S. Gupta, Usha Jain, Abhilasha Singh, R.K. Mehta, S. V. Manoj, D.S.N. Prasad, Ashok Sharma, P. Parashar and S.P. Bansal, *J. Indian Chem. Soc.* Vol-81, 1083-1092 (2004)
38. Rates of autoxidation of Sulfur (IV) in aqueous suspensions, of limestone powder. Implication for scrubber chemistry, *India J. Chem.* 1, 87-92 (1994)
39. Kinetics of oxidation of hydrazinium ion peroxomonosulphate in perchloric acid solutions, D.S.N. Prasad, Ashu Rani and K.S. Gupta, *India J. Chem.*, 32 A, 201-204 (1993)
40. Role of surface and leached metal ion catalysis in autoxidation of sulphur (IV) in power plant fly ash suspensions, P.V.S. Madawat, Ashu Rani, M. Sharma, D.S.N. Prasad and K.S. Gupta, *Atmospheric Environment*, 27A, 1985-1991 (1993)
41. Kinetics of Oxidation of nitrite by peroxomonosulphate, M. Sharma, D.S.N. Prasad and K.S. Gupta, *India J. Chem.*, 31 A, 723-725 (1992)

42. Surface Catalysed autoxidation of sulfur (IV) in aqueous silica and Copper (II) oxide suspensions, D.S.N. Prasad, Ashu Rani and K.S. Gupta, *Environ Sci. Technol.*, 26, 1361-1368 (1992)
43. The Role of free fall atmospheric dust in catalyzing autoxidation of aqueous sulphur, Ashu Rani, D.S.N. Prasad, P.V.S. Madnawat, and K.S. Gupta, 26A, 667-673 (1992)
44. Kinetics of autoxidation of aqueous sulphur dioxide in suspensions of nickel (III) oxide Rachana Bhargava, D.S.N. Prasad, Ashu Rani. P. Bhargava, U. Jain and K.S. Gupta, *Trans. Met. Chem.*, 17, 238-241 (1992)
45. Kinetics and Mechanism of oxidation of hydroxylamine by peroxomonosulphate, Madhu Sharma, D.S.N. Prasad and K.S. Gupta, *Int. J. Chem. Kinet.*, 24, 665-671 (1992)
46. Autoxidation of aqueous sulphur dioxide in suspensions of minerals and rocks, K.S. Gupta, P.V.S. Madnawat, D.S.N. Prasad, Madhu Sharma and Ashu Rani, in *precipitation Scavenging and Atmospheric Surface Exchange Vol. I* Edited by Schwartz S.E. and Slinn W.G.N., Hemisphere, Washington DC, 153-160 (1992)
47. Dynamics of multiphasic glass powder catalysed autoxidation of sulphur dioxide in bulk aqueous phase, A. Rani, D.S.N. Prasad, U. Jain and K.S. Gupta, *India J. Chem.*, 30 A, 756-764 (1991)
48. Kinetics of Surface Catalysed oxidation of sulphur (IV) by dioxygen in aqueous suspensions of cadmium oxide, D.S.N. Prasad, Ashu Rani. P.V.S. Madnawat, R. Bhargava and K.S. Gupta, *J. Mol. Catal.*, 69, 395-405 (1991)
49. Dynamics of autoxidation of aqueous sulphur dioxide in aqueous suspensions of cadmium oxide, Ashu Rani, D.S.N. Prasad, Rachna Bhargava, *Bull. Chem. Soc. Jpn.*, 63, 1955-1961 (1991)
50. Kinetics and Reaction Mechanism, K.S. Gupta, P.V.S. Madnawat, A. Rani, Madhu Sharma, D.S.N. Prasad U. Jain and D.Saxena, *Topics in Chemistry Series-1*, RBSA Publishers, Jaipur, 117-164 (1991)
51. Kinetics of Nitrite-Sulfur (IV) reaction in Acetate Buffered Solutions. Evidence for the Pathway-Zero Order in Sulfur (IV), D.S.N. Prasad and K.S. Gupta, *Bull, Soc. Kinet. Ind.* Vol-12 (2), 1 (1990)
52. Environmentally relevant thermal and photochemical surface catalysed autoxidation of sulphur dioxide in aqueous suspensions, A. Rani, D.S.N. Prasad, P.V. S. Madnawat, L. Jha and K.S. Gupta, *ISRAPS Bull*, 2 (1) 4-7 (1990)
53. Automobiles exhaust emissions. Social and legal remedial measures in Environmental precipitations, K. S. Gupta, A. Rani, D.S.N. Prasad, R. Bhargava and S.K. Bhargava, Dept. of Environment, Govt. of Rajasthan, Jaipur (1990)
54. Kinetics and Mechanism of oxidation of 2-furfural by thallium (III) in perchloric acid solution, D. Kumar, Ashu Rani, D.S.N. Prasad and K.S. Gupta, *React. Kinet. Catal. Lett.*, 43, 133 (1990)

55. Kinetics and Mechanism of Thallium (III) Ligand electron transfer reactions. Oxidation of 2-furoic acid, K.S. Gupta, D. Kumar, R. Bhargava, A. Rani and D.S.N. Prasad, J. Indian Chem. Soc., 65, 619 (1989)
56. An inexpensive undergraduate pseudo first order kinetics experiment, R. Bhargava, A. Rani, D.S.N. Prasad, P. Parashar and K.S. Gupta, Bull. Asso. Kinet. India, 11, 1 (1989)
57. Acid Rain Dimensions and control strategies, Bull. I. G. Centre Human. K.S. Gupta, A. Rani, D.S.N. Prasad and R. Bhargava, Environ. Popul. Studies, 2 (1), 1, (1988)