

# List of Publications

Prof. Kallol Kumar Ghosh

1989

| S.No | TITLE   | AUTHOR                     | JOURNAL  | CITATION |
|------|---|----------------------------|--|----------|
| 1.   | An Investigation into the Mechanism of Acid-Catalysed Hydrolysis of N-Benzylbenzohydroxamic Acid. | K.K. Ghosh,<br>S.G. Tandon | <i>Bull. Chem. Soc., Japan</i> ,<br><b>1989</b> , 62, 1304-1307. | 09       |

1991

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|----|--|----------------------------|---|----|
| 2. | Kinetic Solvent-Isotope Effect on Acid-Catalysed Hydrolysis of Hydroxamic Acids. | K.K. Ghosh,<br>S.G. Tandon | <i>React. Kinet. Catal. Letter.</i><br><b>1991</b> , 45, 79-84. | 09 |
|----|--|----------------------------|---|----|

1992

|    |  |                            |   |    |
|----|--|----------------------------|---|----|
| 3. | Kinetic Model for Acid-Catalysed Hydrolysis of Benzohydroxamic Acid. | K.K. Ghosh, K.K. Krishnani | <i>J. Phys. Org. Chem.</i> ,<br><b>1992</b> , 5, 39-43. | 11 |
|----|--|----------------------------|---|----|

1993

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| 4. | Kinetic and Mechanistic Study of Acid-Catalysed Hydrolysis of m-Cl Benzohydroxamic Acid.            | K.K. Ghosh, K. K. Krishnani,<br>S.K. Rajput | <i>Indian J. Chem.</i> ,<br><b>1993</b> , 32A, 139-142.         | 02 |
| 5. | Medium Effects in the Acid-Catalysed Hydrolysis of Benzohydroxamic Acid in Binary Aqueous Mixtures. | K.K. Ghosh,<br>K.K. Krishnani               | <i>React. Kinet. Catal. Letter</i> , <b>1993</b> , 49, 403-409. | 03 |
| 6. | Kinetic Study of the Acid-Catalysed Hydrolysis of 4-Methoxy- benzohydroxamic Acid.                  | K.K. Ghosh, K. K. Krishnani,<br>S.K. Rajput | <i>New J. Chem.</i><br><b>1993</b> , 17, 363-365.               | 02 |
| 7. | Substituent Effect on the Acid- Catalysed Hydrolysis of N-Phenylbenzohydroxamic Acid.               | K.K. Ghosh,<br>K.K. Krishnani               | <i>J. Chem Research</i> ,<br><b>1993</b> , 469 (S).             | 00 |
| 8. | Kinetic Solvent Deuterium Effect on Hydrolysis of Unsubstituted Hydroxamic Acid.                    | K.K. Ghosh,<br>K.K. Krishnani               | <i>J. Ravishankar University</i> , <b>1993</b> , 6B, 37-41.     | -  |

1994

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|----|---|-------------------------------|---|---|
| 9. | Kinetic Salt Effects on the Acid- Catalysed Hydrolysis of Hydroxamic Acids. | K.K. Ghosh,<br>K.K. Krishnani | <i>J. Ravishankar University</i> , <b>1994</b> , 7B, 1-8. | - |
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|-------------|--|--|--|----|
| 10.         | Micellar Effects upon the Acidic Hydrolysis of Para Substituted N-Phenylbenzohydroxamic Acid.            | K.K. Ghosh,<br>S.K. Sar                  | <i>Indian J. Chemistry</i> ,<br><b>1994</b> , 33A, 51-54.        | 04 |
| 11.         | Acid-Catalysed Hydrolysis of N-Phenyl-4-substituted-benzohydroxamic Acids.                               | K. K. Ghosh,<br>S. Ghosh                 | <i>J. Org. Chem.</i> , <b>1994</b> , 59,<br>1369-1374            | 24 |
| 12.         | Kinetics and Mechanism of Alkaline Hydrolysis of Heterocyclic Hydroxamic Acid.                           | K.K. Ghosh,<br>S. Ghosh                  | <i>Indian J. Chem.</i><br><b>1994</b> , 33B, 1066-1096.          | -  |
| 13.         | Micellar Effects upon the Acid Hydrolysis of N-p-Chlorophenylbenzohydroxamic Acid                        | K.K. Ghosh,<br>S.K. Sar                  | <i>J. Indian Chem. Soc.</i> ,<br><b>1994</b> , 71,579-581.       | 01 |
| <b>1995</b> |  |  |  |    |
| 14.         | Medium Effects on Alkaline Hydrolysis of N-Phenylbenzohydroxamic Acid.                                   | K.K. Ghosh,<br>S. Ghosh                  | <i>J. Indian Chem. Soc.</i> ,<br><b>1995</b> , 72, 19-23.        | 05 |
| 15.         | Kinetics of Alkaline Hydrolysis of N-Phenylbenzohydroxamic Acid.   | K.K. Ghosh,<br>S. Ghosh                  | <i>J. Indian Chem. Soc.</i> ,<br><b>1995</b> , 72, 603-607.      |    |
| 16.         | Kinetic Studies of Alkaline Hydrolysis of N-Phenylbenzohydroxamic Acid in the Presence of Micelles.      | K.K. Ghosh,<br>S.K. Sar                  | <i>J. Indian Chem. Soc.</i> ,<br><b>1995</b> , 72, 597-601.      | 06 |
| 17.         | Excess Acidity Analysis for the Acidic Hydrolysis of Some para substituted N-benzylbenzohydroxamic Acid. | K.K. Ghosh,<br>S. Ghosh                  | <i>Indian J. Chem.</i> ,<br><b>1995</b> , 34B, 315-319.          | 02 |
| <b>1996</b> |  |  |  |    |
| 18.         | Protonation Studies of Some N-Substituted Hydroxamic Acids.  | K.K. Ghosh,<br>S. Ghosh                  | <i>J. Indian Chem. Soc.</i> ,<br><b>1996</b> , 73, 79-81.        | 02 |
| 19.         | Mineral Acid Catalysed Hydrolysis and Protonation Equilibria of Salicylhydroxamic Acid.                  | K. K. Ghosh,<br>S. Ghosh,<br>S.S. Thakur | <i>Indian J. Chemistry</i> ,<br><b>1996</b> , 35B, 121-126.      | 07 |
| 20.         | Micellar Catalyses in the Acidic Hydrolysis of Benzohydroxamic acid.                                     | K.K. Ghosh,<br>S. Roy                    | <i>J. Surf. Sci. &amp; Technol</i> ,<br><b>1996</b> , 10, 41-46. | -  |
| 21.         | Mechanism of OH <sup>-</sup> Promoted Hydrolysis of Acetohydroxamic Acid.                                | K. K. Ghosh,<br>S.S. Thakur              | <i>Indian J. Chemistry</i> ,<br><b>1996</b> , 35B, 798-802.      | 05 |
| 22.         | Kinetic and Spectroscopic Studies of Substituted N-Benzyl benzohydroxamic Acids.                         | K.K.Ghosh,<br>S.K. Rajput,<br>S. Ghosh   | <i>J. Indian Chem. Soc.</i> ,<br><b>1996</b> , 73, 540-541       | 01 |
| 23.         | Kinetics and Mechanism of Mineral Acid Catalysed Hydrolysis of N-Methylbenzohydroxamic Acids.            | K.K.Ghosh,<br>S.K. Rajput,<br>S. K. Sar  | <i>J. Indian Chem. Soc.</i> ,<br><b>1996</b> , 73, 684-686.      | 01 |
| 24.         | Micellar Rate Effects on Alkaline Hydrolysis of Hydroxamic Acids.  | K.K. Ghosh,<br>S. Roy                    | <i>Bull. Chem. Soc., Japan</i> ,<br><b>1996</b> , 69, 3417-3422. | 00 |

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|-------------|---|------------------------------------|---|----|
| 25.         | Micellar Hydrolysis of Hydroxamic Acid in Cationic Surfactants.   | K.K. Ghosh,<br>S. Roy              | Proceed of National Conference on Colloids and Emulsions of Natural and Synthetic System (Feb. 2-4), 1996, P.21, Tripura. | -  |
| <b>1997</b> |   |                                    |   |    |
| 26.         | Effect of Micelles on Acidic Hydrolysis of N-Phenylbenzohydroxamic Acid.  | K.K.Ghosh,<br>S. K. Sar            | <i>Reaction Kinetics &amp; Catalysis Letter.</i> , 1997, 61, 193-199.   | 01 |
| 27.         | Bronsted Acid Catalysed Hydrolysis of N-p-Chlorophenyl Benzohydroxamic Acid.  | K.K.Ghosh,<br>S. K. Sar            | <i>J. Indian Chem. Soc.</i> , 1997, 74, 187-189.  | 02 |
| 28.         | Spectrophotometric Determination of Vanadium (V) as Complex with PBHA in the Non-ionic Micellar Media                 | K.K.Ghosh,<br>S. K. Sar, M. K. Deb | <i>J. Indian Chem. Soc.</i> , 1997, 74, 662-663.  | -  |
| 29.         | Substituent Effects in the Micellar Hydrolysis of N-Phenylbenzo- hydroxamic Acid under Acidic Conditions.             | K.K. Ghosh,<br>S. Roy              | <i>Indian J. Chemistry</i> , 1997, 36B, 324-329.  | 05 |
| 30.         | Kinetic and Mechnaistic Aspects of Acid Hydrolysis of Hydroxamic Acids. <b>(Review Article)</b>                       | K.K. Ghosh                         | <i>Indian J. Chemistry</i> , 1997, 36B, 1089-1102.  | 33 |
| <b>1998</b> |   |                                    |   |    |
| 31.         | Effect of Cationic and Non-ionic Surfactants upon the Acidic Hydrolysis of N-Benzylbenzohydroxamic Acid.              | K.K.Ghosh,<br>S. K. Sar            | <i>J. Indian Chem. Soc.</i> , 1998, 75, 39-41.  | 09 |
| 32.         | Thermodynamics of Micelle Formation of Some Cationic Surfactants as a Function of Temperature and Solvent.            | K.K. Ghosh,<br>S. Roy              | <i>Indian J. Chemistry</i> , 1998, 37B, 875-880.  | 10 |
| 33.         | Micellar Mediated Acid Hydrolysis of N-p-Tolylbenzohydroxamic Acid.   | K.K. Ghosh,<br>A. Pandey           | <i>Indian J. Chemistry</i> , 1998, 37A, 871-876.  | 03 |
| 34.         | Kinetics of Alkaline Hydrolysis of N-p-Tolycinamohydroxamic Acid.   | K. K. Ghosh,<br>S.S. Thakur        | <i>Indian J. Chemistry</i> , 1998, 37A, 1016-1019.  | 01 |
| <b>1999</b> |   |                                    |   |    |
| 35.         | Kinetics and Mechanism of Alkaline Hydrolysis of Hydroxamic Acids.  | K. K. Ghosh,<br>S.S. Thakur        | <i>J. Indian Chem. Soc.</i> , 1999, 76, 28-30.  | 01 |
| 36.         | Kinetics of Alkaline Hydrolysis of Hydroxamic Acid in Mixed Micelles of Binary Surfactant Systems.                    | K.K. Ghosh,<br>A. Pandey           | <i>J. Indian Chem. Soc.</i> , 1999, 76,191-194.   | 03 |
| 37.         | Kinetic Solvent Effect on the Hydrolysis of the N-Benzylbenzohydroxamic Acid in Some Binary Aqueous Solvent Mixtures. | K.K.Ghosh                          | <i>J. Mol. Liquids</i> 1999, 81, 135-145.   | 02 |

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|-------------|--|---|---|----|
| 38.         | Protonation Equilibrium of 4-Substituted Benzohydroxamic Acids in Mineral Acids.   | K.K.Ghosh,<br>P. Tamrakar,<br>S.K. Rajput   | <i>J. Org. Chem.</i><br><b>1999</b> , 64, 3053-3059                             | 10 |
| 39.         | Effects of Reactive and Non-Reactive Counterion Surfactants Upon Acid Hydrolysis of Hydroxamic Acid.   | K.K. Ghosh,<br>A. Pandey, S. Roy            | <i>J. Phys Org. Chem.</i><br><b>1999</b> ,12, 493-498                           | 07 |
| 40.         | Metal Complexation and DNA-Cleavage Activities of N-Substituted Hydroxamic Acids.  | K.K. Ghosh,<br>P. Tamrakar,<br>V. R. Jadhav | <i>Indian J. of Chem.</i> ,<br><b>1999</b> , 38A, 712-715.                      | 01 |
| 41.         | Effect of Solvents on the Kinetics and Mechanism of the Acidic and Alkaline  | K.K.Ghosh,<br>K.K. Krishnani<br>S. Ghosh    | <i>Indian J. of Chem.</i> ,<br><b>1999</b> , 38B, 337-342.                      | 01 |
| 42.         | Kinetic Effects of Surfactant/Polymer Mixtures Upon Acidic Hydrolysis of Hydroxamic Acids.   | K.K. Ghosh<br>A. Pandey                     | <i>J. Dispersion Sci. Technol</i><br><b>1999</b> , 20, 1635-1646.               | 05 |
| 43.         | Spectrophotometric Determination of Arsenic, Antimony and Bismuth with Iodide and TX-100 in Tank and Inustrial Iodide and TX-100 in Tank and Inustrial | S. Roy,<br>M. K. Deb,<br>K. K. Ghosh        | <i>Indian J. Environmental Protection</i><br><b>1999</b> , 19, 822-827.         | 00 |
| <b>2000</b> |  |   |   |    |
| 44.         | Micellar Kinetics of Hydrolysis of Hydroxamic Acids in Zwitterionic Sulfbetaine Surfactants.   | K.K. Ghosh,<br>A. Pandey,<br>S. Roy         | <i>Colloid Surf. A:Physicochem. Eng. Aspects</i><br><b>2000</b> , 163, 293-300. | 16 |
| 45.         | Acidic Hydrolysis of Hydroxamic Acids in Mixed Cationic-cationic, Cationic-Nonionic and Anionic-Nonionic Micelles                                      | K.K. Ghosh,<br>A. Pandey                    | <i>Indian J. Chem. Sect. "B"</i><br><b>2000</b> , 39B, 509-516.                 | 01 |
| <b>2001</b> |  |   |   |    |
| 46.         | Protonation Study of Cyclic Hydroxamic Acid.   | K.K. Ghosh,<br>P. Tamrakar                  | <i>Indian J. Chem.</i><br><b>2001</b> , 40A, 524-527.                           | 01 |
| 47.         | Chemical Reactivity of Desferrioxamine Mesylate Modulated by Micellar Solutions.   | K.K. Ghosh,<br>L. K. Tiwary                 | <i>Indian J. Chem.</i><br><b>2001</b> , 40A, 74-78.                             | 02 |
| 48.         | Solvatochromic Parameters and Linear Solvation Energy Relationships for Hydrolysis of Hydroxamic Acid.   | K.K. Ghosh,<br>P. Tamrakar,<br>S.S. Thakur  | <i>Indian J. Chem.</i><br><b>2001</b> , 40A, 340-344.                           | 04 |
| 49.         | Kinetics and Mechanism of the Hydrolysis of Hydroxamate Siderophore  | K.K. Ghosh,<br>S.S. Thakur                  | <i>J. of Indian Chemical Society.</i><br><b>2001</b> , 78, 185-188.             | 02 |
| 50.         | Microemulsions as Reaction Media for a Hydrolysis Reaction.  | K. K. Ghosh,<br>L.K. Tiwary                 | <i>J. Dispersion Sci. Technol.</i><br><b>2001</b> , 22, 343-348.                | 23 |
| 51.         | Effect of Cationic Surfactants on the Alkaline Hydrolysis of Desferal.   | K. K. Ghosh,<br>L.K. Tiwary                 | <i>J. Surf. Sci. Technol.</i><br><b>2001</b> , 17, 109-115.                     | -  |

2002

|     |  |   |  |    |
|-----|--|---|--|----|
| 52. | An Extremely High Insulin-Mimetic Activity of Bis (1,4-dihydro-2-Methyl-1-phenyl-4-thioxo-3-pyridinolato) zinc (II) complex. | A. Katoh, T. Tsukahara, R. Saito, K. K. Ghosh, Y. Yoshikawa, Y. Kojima, A. Tamura, H. Sakurai | <i>Chemistry Letters</i> , <b>2002</b> , 114-115.                                      | 23 |
| 53. | Microbial Growth-Promotion Activity of 3-Hydroxymonoazine and N-Hydroxydiazine type Heterocycles                             | R. Saito, K.K. Ghosh, K. Harada, A. Katoh   | <i>Yakugaku Zasshi (Pharmaceutical Society of Japan)</i> , <b>2002</b> , 122, 703-705. | 03 |
| 54. | Kinetic Solvent Effects on Reaction Rates for The Acidic Hydrolysis of Dihydroxamic Acid.                                    | K.K. Ghosh, S.K. Patle  | <i>Indian J. Chem.</i> <b>2002</b> , 41A, 758-762.                                     | 03 |
| 55. | Base-Catalysed Reaction of Acetohydroxamic Acid in Micellar Media Containing $\beta$ -Cyclodextrin.                          | K. K. Ghosh, P. Sharma  | <i>J. Indian Chemical Society</i> , <b>2002</b> , 79, 895-897.                         | 04 |
| 56. | Cyclodextrin-Surfactant Mediated Reactions   | K.K. Ghosh, P. Sharma   | <i>J. Surf. Sci. Technol.</i> , <b>2002</b> , 18, 93-99.                               | 02 |

2003

|     |   |  |  |    |
|-----|---|--|--|----|
| 57. | Influence of Sodium Bis (2 Ethyl-1-Hexyl) Sulfosuccinate/ isooctane/ water Microemulsions on the Hydrolysis of Salicylhydroxamic Acid.  | K.K. Ghosh, L.K. Tiwary                        | <i>Journal Mol. Liquids</i> , <b>2003</b> , 102, 183-195.  | 08 |
| 58. | A Comparison Between the Acid Catalysed Reactions of some Dihydroxamic Acids, Monohydroxamic Acids and Desferal.                        | K.K. Ghosh, S.K. Patle, P. Sharma, S.K. Rajput | <i>Bull, Chem. Soc. Japan</i> , <b>2003</b> , 76, 283-290. | 05 |
| 59. | Spectrophotometric Determination of Protonation Constant of N-Phenylbenzohydroxamic Acid in Mineral Acids.                              | K.K. Ghosh, P. Tamrakar                        | <i>Indian J. Chemistry</i> , <b>2003</b> , 42A, 1081-1085. | 03 |
| 60. | Linear Free Energy Relationships in the Protonation Equilibria and Acid-Base Catalysed Reaction of 4-Substituted Benzohydroxamic Acids. | K.K. Ghosh, P. Tamrakar                        | <i>Z-Phys. Chem</i> , <b>2003</b> , 217, 1153-1168.        | 02 |
| 61. | Acid-Base Equilibria of Hydroxamic Acids: Spectroscopic Investigations<br><b>(Review Article)</b>                                       | K.K. Ghosh                                     | <i>Indian J. Chem</i> , <b>2003</b> , 42A, 2683-2697.      | 02 |
| 62. | Reactivities of Hydroxamic Acid in Surfactant-Poly (ethylene glycol) Couples  | K.K. Ghosh, P. Sharma                          | <i>Colloids &amp; Surfaces A</i> , <b>2003</b> , 231, 113  | 12 |
| 63. | Micellar Effects upon the Reaction of p-Nitrophenyl Acetate with N-Hydroxy Amides.  | K.K. Ghosh, D. Sinha, M. L. Satnami            | <i>J. Surface Sci. Technol.</i> , <b>2003</b> , 19, 159-16 | 05 |

2004

|     |  |   |  |    |
|-----|--|---|--|----|
| 64. | Kinetics and Mechanism of the Mineral Acid Catalyzed Reactions of Hydroxamic Acids.  | K.K. Ghosh, J. Vaidya, D. Sinha   | <i>Z. Phys. Chem.</i> , <b>2004</b> , 218, 563-573             | 05 |
| 65. | Dephosphorylation of Paraoxon by Hydroxamate ions in Micellar Media.   | K.K. Ghosh, M.L. Satnami, D.Sinha   | <i>Tetrahedron Letters.</i> , <b>2004</b> , 45, 9103-9105      | 41 |
| 66. | □-Effect of Hydroxamate-ions in Micellar Mediated Reactions of <i>p</i> -Nitrophenyl acetate   | K.K. Ghosh, Y. Simanenکو, M. L. Satnami, S. K. Sar.   | <i>Indian J. Chem.</i> , <b>2004</b> , 43B, 1990-1994.         | 15 |
| 67. | O-Nucleophilicity of Hydroxamate Ions in Reactions with Ethyl 4-Nitrophenyl Ethylphosphonate, Diethyl 4-Nitrophenyl phosphate and 4- Nitrophenyl 4-Toluene-sulfonate | Y. S. Simanenکو, T. M. Prokop'eva, A. F. Popov, C.A. Bunton, E. A. Karpichev, V. A. Savelova, K. K. Ghosh | <i>Russ. J. Org. Chem.</i> , <b>2004</b> , 40, 1337-1350       | 21 |
| 68. | Kinetic Studies on the Catalyzed Reaction of Hydroxamic Acids in □- Cyclodextrin/Surfactant Mixed Systems  | K.K. Ghosh, P. Sharma, S. Tamrakar, S. K. Sar   | <i>React. Kinet. Catal. Lett.</i> , <b>2004</b> , 81, 161-168. | 08 |

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|-----|---|--|--|----|
| 69. | Spectrophotometric Study of the Interaction of $\beta$ -Cyclodextrin with Hydroxamic Acids.                       | K. K. Ghosh<br>P. Sharma   | <i>J. Dispersion Sci. Technol.</i> , <b>2005</b> , 26, 723-728 | 07 |
| 70. | Solvent Effects on the Nucleophilic Substitution Reactions of <i>p</i> -Nitrophenyl Acetate with Hydroxamate ions | K.K. Ghosh, M.L.Satnami, D.Sinha, J.Vaidya                                       | <i>J. Mol. Liquids</i> , <b>2005</b> , 116, 55-60              | 15 |
| 71. | Nucleophilic Dephosphorylation of <i>p</i> -Nitrophenyl Diphenyl Phosphate in Cationic Micellar Media             | K. K. Ghosh, D. Sinha, M. L. Satnami, D. K. Dubey, P. R. Dafonte, G. L. Mundhara | <i>Langmuir</i> , <b>2005</b> , 21, 8664.                      | 69 |
| 72. | Solution Properties of Cationic and Anionic Surfactants: Effect of Solvents and Polymers                          | K. K. Ghosh<br>J. Vaidya, S. Bal   | <i>J. Indian Chem. Soc.</i> , <b>2005</b> , 82,743-745         | 04 |

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|-----|--|--|--|----|
| 73. | The $\alpha$ -Effect in Micelles: Nucleophilic Substitution Reaction of <i>p</i> -Nitrophenyl Acetate with N-phenylbenzohydroxamate Ion. | K. K. Ghosh, J. Vaidya<br>M. L. Satnami  | <i>Int. J. Chem. Kinet.</i> , <b>2006</b> , 38, 26-31          | 28 |
| 74. | Reactivity and Mechanistic Studies of Base Catalysed Reactions of Some Dihydroxamic Acids  | K.K. Ghosh, S.K.Patle<br>S.S. Thakur   | <i>Chem. Eng. Commun.</i> , <b>2006</b> , 193, 363-369         | -  |
| 75. | Studies of Nucleophilic Substitution Reactions of <i>p</i> -Nitrophenyl Acetate with some Dihydroxamate Ions in Cationic Micellar Media  | K. K. Ghosh, S. Bal, M. L Satnami, R. Palepu   | <i>J. Dispersion Sci. Technol.</i> , <b>2006</b> , 27, 349-355 | 06 |
| 76. | Kinetic Study of Hydrolytic Decomposition of Organophosphates and Thio- phosphates by N-Hydro-xyamides in Cationic Micellar Media.       | K. K. Ghosh, D. Sinha, M. L. Satnami, A. K. Shrivastava, D. K. Dubey, G. L. Mundhara | <i>Indian J. Chem.</i> , <b>2006</b> , 45B, 726-730            | 08 |

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|-----|--|--|--|----|
| 77. | Nucleophilic Substitution Reactions of Carboxylate and Phosphate Esters with Hydroxamate Ions in Microemulsions.                           | K. K. Ghosh,<br>M. L. Satnami  | <i>Colloids &amp; Surfaces A: Physicochem. Chem. Eng. Aspects.</i><br><b>2006</b> , 274, 125-129 | 23 |
| 78. | Kinetics of the Reaction of Methyl 4-Nitrobenzenesulfonate + Br <sup>-</sup> in Ethanol Amine Based Surfactants                            | M. M. Mohareb,<br>K. K. Ghosh,<br>R. M. Palepu   | <i>Int. J. Chem. Kinet.</i><br><b>2006</b> , 38, 303-308   | 08 |
| 79. | S <sub>N</sub> 2 Reaction of a Sulfonate Ester in the Presence of Alkyltriphenyl-Phosphonium Bromides and Mixed Cationic-Cationic Systems. | M. M. Mohareb,<br>K. K. Ghosh,<br>G. Orlova, R. M. Palepu                                      | <i>J. Phys. Org. Chem.,</i><br><b>2006</b> , 19, 281-290.  | 18 |
| 80. | Enhanced Nucleophilic Reactivity of Hydroxamate Ions in Some Novel Micellar Systems for the Cleavage of Parathion                          | K. K. Ghosh, D. Sinha,<br>M. L. Satnami, D. K. Dubey, A. Shrivastava,<br>R. Palepu, P. Dafonte | <i>J. Colloid &amp; Interface Sci.,</i> <b>2006</b> , 301, 564-568                               | 25 |
| 81. | Catalytic Cleavage of p-Nitrophenyl Diphenyl Phosphinate by Hydroxamate Ion  | S. Bal, S. Kolay,<br>A. Shrivastava,<br>D.K. Dubey,<br>K. K. Ghosh                             | <i>Indian J. Chem.,</i><br><b>2006</b> , 45A, 1825-1830  | 01 |
| 82. | Effect of polymer and surfactant-polymer couples on the acid-catalyst hydrolysis of phenyl urea.   | S. K. Sar, R. Mandavi,<br>P. K. Pandey, K. K. Ghosh  | <i>J. desp.Sci. technol.,</i><br><b>2006</b> , 27, 435-438                                       | 03 |

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| 83. | Kinetics of Reaction of Oximate $\alpha$ -Nucleophiles with p-Nitrophenyl Acetate in Alkyltriphenyl-Phosphonium bromide Micelles   | K.K.Ghosh, S.Kolay,<br>M.L.Satnami,<br>S.Moore, R.Palepu,<br>P.R.Dafonte     | <i>J. Dispersion Sci. Technol.,</i> <b>2007</b> , 28, 213-218    | 07 |
| 84. | Alkyl Triphenylphosphonium Bromide Surfactant Mediated Reactions of p-Nitrophenyl Acetate  | S.Moore, R. M. Palepu, S. Bal, K. K. Ghosh, P.R.Dafonte                      | <i>Tenside Surfactant Detergents,</i><br><b>2007</b> ,44,176-181 | 04 |
| 85. | Kinetic Studies of Micelle Assisted Reaction of p-Nitrophenyl Acetate with Benzohydroxamate Ion in Water-Ethylene glycol Mixtures. | S. Bal, M. L.Satnami,<br>S. Kolay, R. M. Palepu, P. R. Dafonte,<br>K.K.Ghosh | <i>J. Surface Sci. Technol.,</i><br><b>2007</b> , 23, 33-48.     | 11 |
| 86. | Determination of pK <sub>a</sub> 's of Hydroxamic Acids by Nucleophilic Substitution Reaction                                      | K. K. Ghosh<br>A. Shrivastava,   | <i>Indian J. Chem.-A,</i><br><b>2007</b> , 46 A, 1630-1634       | 07 |

**2008**

|     |  |   |  |    |
|-----|--|---|--|----|
| 87. | Micellization of Alkyltriphenyl-phosphonium Bromides in Ethylene Glycol And Diethylene Glycol – Water Mixtures : Thermodynamic And Kinetic Investigation | S.Kolay, K.K. Ghosh,<br>A. Mac Donald, J. Moulins, R. M. Palepu | <i>J. Solution Chemistry,</i><br><b>2008</b> , 37, 59-72.  | 25 |
| 88. | Micellization of Cetyltriphenyl-phosphonium bromide Surfactant in Binary Aqueous Solvents  | K. K. Ghosh, A. Shrivastava                                     | <i>J. Surfactant Detergents,</i> <b>2008</b> , 11, 287-292 | 26 |
| 89. | Preparation of Ag Nanoparticles in Surfactant Solution   | K.K.Ghosh, S.Kolay  | <i>J. Dispersion Sci. Technol.,</i> <b>2008</b> , 29, 676- | 09 |

|     |   |   |   |    |
|-----|---|---|---|----|
|     |   |   | 681.  |    |
| 90. | Effect of Cationic Gemini Surfactants on the Hydrolysis of Carboxylate and Phosphate Esters using Hydroxamate ions                              | K.K. Ghosh, S.Kolay, S. Bal, M.L. Satnami, P. Quagliotto, P. R. Dafonte | <i>Colloid Polymer Science</i> , <b>2008</b> , 286, 293-303.  | 24 |
| 91. | Micellar Effects on Hydrolysis of Parathion   | A. Shrivastava , K. K. Ghosh  | <i>J. Dispersion Sci.Tech.</i> , <b>2008</b> , 29, 1381-1384. | 04 |
| 92. | Comparative Nucleophilic Reactivities in Carboxylate, Phosphinate and Thiophosphate Esters Cleavage   | K. K. Ghosh, S. Bal, S. Kolay, A. Shrivastava                           | <i>J. Phys. Org. Chem.</i> , <b>2008</b> , 21, 492-497.       | 08 |
| 93. | Solvent Effect on The $\square$ -Effect for Reaction of <i>p</i> -Nitrophenyl Diphenyl Phosphinate with N-Methyl 4-Methoxy Benzohydroxamic Acid | A. Shrivastava , K. K. Ghosh  | <i>J Mol. Liquids</i> , <b>2008</b> , 141, 99-101.            | 14 |
| 94. | Micellar Properties of Benzyldimethyl-Dodecylammonium Bromide In Aquo-Organic Solvent Media.  | K. K. Ghosh, V. Baghel  | <i>Indian J. Chem.</i> <b>2008</b> , 47 A, 1230-1233          | 17 |
| 95. | Micellization of Cetyltributyl-Phosphonium Bromide In Some Binary Aqueous Solvents Mixtures   | S. Tiwari, K. K. Ghosh  | <i>Tensides Surfact.Det.</i> , <b>2008</b> , 11, 287-292.     | 05 |
| 96. | Kinetics of $\alpha$ -Chymotrypsin Catalyzed Hydrolysis of 4- Nitrophenyl Acetate in Ethanolamine Surfactants                                   | K. K Ghosh, S. K. Verma   | <i>Indian J. Biochem. Biophys.</i> , <b>2008</b> ,            | 18 |

**2009**

|      |  |   |   |    |
|------|--|---|---|----|
| 97.  | Kinetic Study of the Reactions of <i>p</i> -Nitrophenyl Acetate and <i>p</i> -Nitrophenyl Benzoate with Oximate Nucleophiles             | S. Tiwari, S. Kolay, K. K. Ghosh, K. Kuca, J. Marek | <i>Int. J. Chem. Kinetics</i> , <b>2009</b> , 41, 57-64.                        | 22 |
| 98.  | Effects of Head Group of Cationic Surfactants on The Hydrolysis of <i>P</i> -Nitrophenyl Acetate Catalyzed by $\alpha$ -Chymotrypsin     | K. K. Ghosh, S. K. Verma                            | <i>Int. J. Chem. Kinetics</i> , <b>2009</b> , 41, 377-381                       | 23 |
| 99.  | Micellization Behaviour Of [C <sub>16</sub> -12-C <sub>16</sub> ], 2Br <sup>-</sup> Gemini Surfactant in Binary Aqueous-Solvent Mixtures | S.Kolay, K.K. Ghosh, P. Quagliotto                  | <i>Colloids Surf. A: Physicochem. Eng. Aspects</i> , <b>2009</b> , 348, 234-239 | 36 |
| 100. | Comparative Study of Nucleophilic Efficacy of Pralidoxime iowards Phosphorus, Sulfur and Thiophosphorus Based Esters                     | S. Tiwari, K. K. Ghosh, J. Marek, K. Kuca           | <i>Reaction Kinetics Catalysis Letters</i> <b>2009</b> , 98, 91-97              | 13 |
| 101. | Micellization Behavior Of [C <sub>16</sub> -4-C <sub>16</sub> ], 2Br <sup>-</sup> Gemini Surfactant in Binary Aqueous-Solvent Mixtures   | D. Tikariha, K. K. Ghosh, P. Quagliotto             | <i>Indian J. Chemistry</i> , <b>2009</b> , 48A, 1522-1526                       | 19 |

**2010**

|      |  |   |   |    |
|------|--|---|---|----|
| 102. | Functionalized Surfactant Mediated Reactions of Carboxylate, Phosphate and Sulphonate Esters | S. Tiwari, K. K. Ghosh, J. Marek, K. Kuca | <i>J. Phys. Org. Chem.</i> <b>2010</b> , 23, 519-525. | 29 |
|------|--|---|---|----|



|             |   |   |  |    |
|-------------|---|---|--|----|
| 103.        | Spectrophotometric Determination of the Acidity Constants of Some Oxime Based $\alpha$ -Nucleophiles  | S.Tiwari, K. K. Ghosh, J. Marek, K. Kuca                                    | <i>J. Chem. Eng. Data.</i> <b>2010</b> , 55, 1153-1157.                        | 21 |
| 104.        | Micellization of Cetyldiethylethanol Ammonium Bromide in Mixed Aqueous Organic Solvents   | D. Tikariha, K. K. Ghosh  | <i>J. Disp. Sci. Technol.</i> <b>2010</b> , 31, 1249-1253.                     | 10 |
| 105.        | Micellization of Gemini Surfactants in Polymer Solutions  | D. Tikariha, K. K. Ghosh, P. Quagliotto                                     | <i>Tensides Surfact. Det.</i> <b>2010</b> , 47, 162-167.                       | 05 |
| 106.        | Cationic Micellar Catalyzed Hydrolysis of Pesticide Fenitrothion using $\alpha$ -Nucleophiles.  | S. Tiwari, K. K. Ghosh J. Marek, K. Kuca                                    | <i>Lett Drug Des Discov.</i> , <b>2010</b> , 7, 194-199.                       | 19 |
| 107.        | Oxime K027-Novel Candidate for the Universal Reactivator of Nerve Agent and Pesticides Inhibited Acetylcholinesterase.                                  | K. Kuca, K. Musilck, D. Jun, M. Pohanka, K. K. Ghosh, M. Hrabanova          | <i>J. Enzyme Inhibition Med.Chem.</i> , <b>2010</b> , 25, 509-512.             | 34 |
| 108.        | Mixed Micellar Properties of Cationic Monomeric and Gemini Surfactants.   | D. Tikariha, K. K. Ghosh, P. Quagliotto, S. Ghosh                           | <i>J. Chem. Eng. Data</i> <b>2010</b> , 55, 4162-4167                          | 45 |
| 109.        | $\alpha$ -Chymotrypsin Catalyzed Hydrolysis of <i>P</i> -Nitrophenyl Acetate in Cationic Microemulsions.  | S. K. Verma and K. K Ghosh  | <i>Colloids Suf A: Physico. Eng. Asp.</i> <b>2010</b> , 368, 154-158.          | 13 |
| 110.        | Catalytic Activity Of Enzyme in Water/Organic Cosolvent Mixtures for the Hydrolysis of <i>P</i> -Nitrophenyl Acetate and <i>P</i> -Nitrophenyl Benzoate | S. K. Verma and K. K Ghosh  | <i>Indian J. Chem.</i> <b>2010</b> , 49A (8), 1041-1046                        | 17 |
| 111.        | Nucleophilic Attack of Salicyl-hydroxamate Ion at C=O and P=O Centre in Cationic Micellar media   | M. L. Satnami, S. Dhritlahre, R. Nagwanshi, I. Karbhal, K.K. Ghosh, F. Nome | <i>J. Phys. Chem. B</i> , <b>2010</b> , 114, 16759-16765                       | 26 |
| 112.        | New insights into detoxification of chemical warfare stimulants and pestisite using micelle mediated systems.   | K.K. Ghosh, S. Tiwari, J. Marek. K. Kuca                                    | <i>Main group chemistry</i> , <b>2010</b> , 09, 337-353                        | 05 |
| <b>2011</b> |   |   |  |    |
| 113.        | Micellar and Surface Properties of Some Monomeric and Gemini Surfactants.   | S. K. Verma, K. K Ghosh   | <i>J. Surfact. detergents</i> , <b>2011</b> , 14, 347-352                      | 47 |
| 114.        | Effect of Cationic Surfactants on the Enzymatic Activity of $\alpha$ - Chymotrypsin   | S. K. Verma and K. K Ghosh  | <i>Kinet. Catal.</i> <b>2011</b> , 52, 6-10                                    | 09 |
| 115.        | Comparative Study of the Cationic Surfactants and their Influence on the Alkaline Hydrolysis of Acetylsalicylic Acid                                    | B. Kumar, K.K. Ghosh, P. R. Dafonte   | <i>Int. J. Chem. Kinet.</i> <b>2011</b> , 43, 1-8                              | 11 |
| 116.        | Effects of Anionic Surfactants on the Kinetics of Acidic Hydrolysis of Acetohydroxamic Acid   | B. Kumar, K. K. Ghosh,  | <i>J. Indian Chem. Soc.</i> <b>2011</b> , 88, 193-197.                         | 08 |
| 117.        | Micellization Properties of Mixed Cationic Gemini and Cationic Monomeric Surfactants in Aqueous-Ethylene Glycol Mixture                                 | D. Tikariha, K. K. Ghosh, P. Quagliotto, S. Ghosh                           | <i>Colloids Surf. A: Physicochem. Eng. Aspects</i> , <b>2011</b> , 381, 61-69. | 36 |
| 118.        | Micellar Characteristics and Surface Properties of Some Sufobetaine Surfactants   | N. Singh, K. K. Ghosh   | <i>Tenside Surfact. Det.</i> , <b>2011</b> , 48 160-164.                       | 13 |
| 119.        | Physicochemical Properties of Cetyltributylphosphonium Bromide in the Presence of Additives   | D. Tikariha, K. K. Ghosh  | <i>Tenside Surfact. Det.</i> , <b>2011</b> , 48, 308-311                       | 02 |
| 120.        | Micellization Behavior of Cationic Dimeric Surfactants in Aqueous-Ethylene Glycol Solution  | D. Tikariha, B. Kumar, N.Singh, K. K. Ghosh, P. Quagliotto                  | <i>J. Surf. Deterg.</i> <b>2011</b> 14, 555-562                                | 22 |

|             |  |   |   |    |
|-------------|--|---|---|----|
| 121.        | On the universality of oxime HLo-7, antidote for case of the nerve agent poisoning.  | K. Kuka, K. Musilek, J. Karasowa, D. Jun, O. Soukup, M. Pohanka, K. K. Ghosh, M. Hrabiniowa | <i>Mill. Med. Sci. Lett.</i> <b>2011</b> , 80, 80-84                        | 05 |
| 122.        | Hydrolysis of Carboxylate and Phosphate Ester Using Monopyridinium Oximes in Cationic Micellar Media   | N. Singh, K. K. Ghosh J. Marek, K. Kuca   | <i>Int. J. Chem. Kinet.</i> <b>2011</b> , 43, 523-597                       | 23 |
| <b>2012</b> |  |   |   |    |
| 123.        | Effects of Electrolytes on Micellar and Surface Properties of Alkyldiethylethanolammonium Bromide Surfactants  | B. Kumar, D. Tikariha, Kallol K. Ghosh  | <i>J. Dispersion Sci. Technol.</i> <b>2012</b> , 33, 265-271                | 24 |
| 124.        | Effect of Some Pyridinium Based Compounds on Hydrolysis of Carboxylate Ester   | N. Singh, K. K. Ghosh, J. Marek K. Kuca   | <i>Indian J. Chem. Sec. B</i> <b>2012</b> , 51B, 611-616.                   | 20 |
| 125.        | Effect of Short Chain Length Alcohols on Micellization Behavior of Cationic Gemini and Monomeric Surfactants   | B. Kumar, D. Tikariha, K.K. Ghosh, P. Quagliotto  | <i>J. Mol. Liquids</i> <b>2012</b> , 172, 81-87                             | 47 |
| 126.        | Physicochemical Characterization of Cationic Gemini Surfactants and Their Effect on Reaction Kinetics in Ethylene Glycol-Water Medium                                    | D. Tikariha, N. Singh, M. L. Satnami, K. K. Ghosh, P. Quagliotto, N. Barbero                | <i>Colloids Surf. A: Physicochem. Eng. Aspects</i> <b>2012</b> , 411, 1-11. | 25 |
| 127.        | Comparative studies on reaction of bis( <i>p</i> -nitrophenyl) phosphate and $\alpha$ -nucleophiles in cationic micellar media   | B. Kumar, M. L. Satnami, K.K. Ghosh, K. Kuca  | <i>J. Physical Org. Chem.</i> <b>2012</b> , 25, 864-871.                    | 19 |
| 128.        | Effect of short chain length alcohols on micellization behavior of cationic gemini and monomeric surfactants   | B. Kumar, D. Tikariha, K. K. Ghosh, P. Quagliotto   | <i>J. Mol. Liquids</i> <b>2012</b> , 172, 81-87.                            | 47 |
| 129.        | Preparation of quinolinium salts differing in the length of alkyl side chain.  | J. Marek, V. Buchta, O. Shoukup, P. Stodulka, J. Kabel, K. K. Ghosh, K. Musilek, K. Kuca    | <i>Molecules</i> , <b>2012</b> , 17, 6386-6394                              | 10 |
| <b>2013</b> |  |   |   |    |
| 130.        | Effect of Polymers and Temperature on critical micelle concentration of some Gemini and monomeric surfactants  | B. Kumar, D. Tikariha, K. K. Ghosh, N. Barbero, P. Quagliotto                               | <i>J. Chem. Thermodynamics</i> , <b>2013</b> , 62, 178-185                  | 35 |
| 131.        | Physicochemical Properties and Supernucleophilicity of Oxime Functionized Surfactants: Hydrolytic Catalysts Towards Dephosphorylation of Di- and Tri-phosphate Esters,   | N. Singh, Y. Karpichev, B. Gupta, M. L. Satnami, J. Marek, K. Kuca, K. K. Ghosh.            | <i>J. Phys. Chem. B</i> , <b>2013</b> , 117, 3806-3817                      | 42 |
| 132.        | Activity, Stability and Kinetic Parameters for $\alpha$ -chymotrypsin catalyzed reactions in AOT/isooctane reverse micelles with non-ionic and zwitterionic surfactants. | S. K. Verma, K. K. Ghosh  | <i>J. Chem. Sci.</i> , <b>2013</b> , 125, 875-882                           | 16 |
| 133.        | Kinetic Study on Effect of Novel Cationic Dimeric Surfactants for the Cleavage of Carboxylate Ester  | B. Kumar, D. Tikariha K. K. Ghosh, N. Barbero, P. Quagliotto                                | <i>J. Phys. Org. Chem.</i> , <b>2013</b> , 26, 626-631                      | 14 |
| 134.        | Reactivity studies of carbon, phosphorus and sulfur-based acyl studies with tertiary oximes  | B. Gupta, R. Sharma, N. Singh, Y.   | <i>J. Phys. Org. Chem.</i> , <b>2013</b> , 26, 632-642                      | 09 |

|      |  |  |  |    |
|------|--|--|--|----|
|      | in gemini surfactants.   | Karpichev, M. L. Satnami, K. K. Ghosh  |  |    |
| 135. | Study of Solubility Efficiency of Polycyclic Aromatic Hydrocarbons in Single Surfactant System                                   | J.Lakra, D. Tikariha, T. Yadav, M. L. Satnami, K. K. Ghosh,  | <i>J. Surf. Det.</i> <b>2013</b> , 16, 957-966   | 13 |
| 136. | Interaction Between Cationic Gemini and Monomeric Surfactants: Micellar and Surface Properties                                   | D.Tikariha, B. Kumar, S. Ghosh, A. K. Tiwari, S. K. Saha, N. Barbero, P. Quagliotto, Kallol K. Ghosh | <i>J. Nanofluids</i> , <b>2013</b> , 2, 1-9  | 34 |
| 137. | Evaluation of biological efficiency of oxime based reactivators against organophosphate inhibited AChE: An <i>in vitro</i> study | B. Gupta, Kallol K. Ghosh  | <i>Toxicology Letters</i> , <b>2013</b> Volume 221, Supplement, 28 August, Pages S147–S148 | 03 |
| 138. | Kinetic studies of cholinesterase reactivators with organophosphate inhibited AChE   | R.Sharma, Kallol K. Ghosh  | <i>Toxicology Letters</i> , Volume 221, Supplement, 28 August 2013, Pages S152–S153        | 04 |

**2014**

|      |   |  |   |    |
|------|---|--|---|----|
| 139. | Interactions between Xylene-Linked Carbamoyl Bis-Pyridinium Mono Oximes and Organophosphates Inhibited-AChE: A Kinetic Study                    | B. Gupta, R. Sharma, J. R. Acharya, M. P. Kaushik, Kallol K. Ghosh.                                    | <i>Toxicology</i> , <b>2014</b> , 316, , 1–8                                | 12 |
| 140. | In-Vitro Reactivation Kinetics of Paraoxon and DFP Inhibited Electric eel AChE Using Mono- and Bis-Pyridinium Oximes                            | B. Gupta, R. Sharma, N. Singh, K. Kuca, J. R. Acharya, Kallol K. Ghosh.                                | <i>Archives of Toxicology</i> , <b>2014</b> , 80, 381-390,                  | 28 |
| 141. | Reactivity of N-benzoyl-N-phenylhydroxylamine in Cationic Micellar Media for the Cleavage of Carboxylate and Phosphate Esters                   | B. Kumar, D. Tikariha, Kallol K. Ghosh   | <i>J. Mol. Liquids</i> , <b>2014</b> , 193, 243-248                         | 04 |
| 142. | Mixed Micellization of Gemini & Cationic Surfactants: Physico-chemical Properties & Solubilization of Polycyclic Aromatic Hydrocarbons.         | J. Lakra, D. Tikariha, T. Yadav, S. Ghosh, M. L. Satnami, K. K. Ghosh,                                 | <i>Colloids Surf. A: Physicochem Eng. Aspects</i> <b>2014</b> , 451, 56-65. | 23 |
| 143. | Catalytic Hydrolysis of Phosphodiester by Nucleophilic Ions in Gemini Micellar Media  | B. Kumar, D. Tikariha, M. L. Satnami, N.Barbero, P. Quagliotto, K. K. Ghosh                            | <i>J. Phys. Org. Chem.</i> <b>2014</b> , 27, 613-621                        | 12 |
| 144. | Physicochemical and Self-assembling Properties of Some Gemini Surfactants   | D. Tikariha, J. Lakra, S. D. Roy, T. Yadav, K. K Ghosh   | <i>J. Ravishankar University, Raipur-Part-B</i> , <b>2014</b> , 27, 32-40   | -  |
| 145. | Assessment of Antidotal Efficacy of Cholinesterase Reactivators Against Paraoxon: In Vitro Reactivation Kinetics and Physicochemical Properties | B. Gupta, N. Singh, R. Sharma, B. Foretic', K. Musilek, K. Kuca, J. Acharya, M.L. Satnami, K. K. Ghosh | <i>Bioorg. Med. Chem. Lett.</i> , <b>2014</b> , 24, 4743-4748               | 15 |
| 146. | Surface Properties of Amphiphilic Drugs in Presence of Cationic surfactants   | T. Yadav, D. Tikariha, J. Lakra, A. K. Tiwari, S.K. Saha, Kallol K Ghosh                               | <i>J. Surf. Sci. Technol.</i> , <b>2014</b> , <b>30</b> , 93-110            | 05 |

**2015**

|             |   |  |  |    |
|-------------|---|--|--|----|
| 147.        | Development and Structural Modification of Cholinesterase Reactivators Against Chemical Warfare Agents in Last Decade: A Review                 | R. Sharma, B. Gupta, N. Singh, J. R. Acharya, Kamil Musilek, Kamil Kuca, K. K. Ghosh | <i>Mini Rev.Med. Chem.</i> <b>2015</b> , 15, 58-72.<br><b>(Review Article)</b>     | 51 |
| 148.        | From $\alpha$ -Nucleophiles to Functionalized Aggregates: Exploring the Reactivity of Hydroxamate Ion towards Esterolytic Reactions in Micelles | N. Singh, Y. Karpichev, R. Sharma, B Gupta, A. K. Sahu, M. L. Satnami, K. K. Ghosh   | <i>Org. Biomol. Chem.</i> , <b>2015</b> , 13, 2827-2848<br><b>(Review Article)</b> | 22 |
| 149.        | Kinetic And Physicochemical Analysis of Structurally Different Bis-Pyridinium Oximes Against Pesticides Inhibited Ache.                         | A. K. Sahu, B. Gupta, R. Sharma, Y. Singh, K. Musilek, K. Kuca, K. K. Ghosh          | <i>Ind. J. Chem. Sec A</i> , <b>2015</b> ,54A, 40-45.                              | 06 |
| 150.        | Solubilization of Polycyclic Aromatic Hydrocarbons in Structurally Different Gemini and Monomeric Surfactants: A Comparative Study              | T. Yadav, D. Tikariha, J. Lakra, M. L. Satnami, A.K. Tiwari, S. K. Saha, K. K. Ghosh | <i>J. Mol. Liq.</i> , <b>2015</b> , 204, 216-221                                   | 23 |
| 151.        | Surface, Conformational and catalytic activity approach of $\alpha$ -chymotrypsin and trypsin in micellar media                                 | S. K. Verma, K. K. Ghosh, R. Verma, W. Xiang, N. Li, X. Zhao                         | <i>Colloids Surf. A: Physicochem Eng. Aspects</i> <b>2015</b> , 470, 188-193       | 05 |
| 152.        | Effect of Polar Organic Solvents on Self-Aggregation of Some Cationic Monomeric and Dimeric Surfactants   | S. Sinha, D. Tikariha, J. Lakra, A. K. Tiwari, S.K. Saha, K. K. Ghosh                | <i>J. Surf. Deterg.</i> <b>2015</b> , 18, 629-640                                  | 20 |
| 153.        | Oxime functionality in surfactant self-assembly: An overview on combating toxicity of organophosphates  | N. Singh, Y. Karpichev, A. K. Tiwari, K. Kuca, K. K. Ghosh                           | <i>J. Mol. Liq.</i> , <b>2015</b> , 208, 237-252                                   | 40 |
| 154.        | CdS quantum dots: aqueous synthesis, spectroscopic and microscopic investigation  | M. L. Satnami, S. K. Vaishnav, R. Nagwanshi, K.K. Ghosh                              | <i>J. Indian Chem. Soc.</i> , <b>2015</b> ,92 (9), 1427-1435                       | 03 |
| 155.        | Investigation on the solubilization of toxic polycyclic aromatic hydrocarbons in the presence of gemini surfactants                             | T. Yadav, D. Tikariha, J. Lakra, K. K. Ghosh   | <i>Toxicol. Lett.</i> , <b>2015</b> ,238 (2), S99                                  | -  |
| 156.        | Fluorescence spectroscopic studies on the interactions of bovine serum albumin with gemini and single-chain cationic surfactants                | S. Sinha, D. Tikariha, K. K. Ghosh   | <i>Toxicol. Lett.</i> , <b>2015</b> , 238 (2), S307                                | -  |
| <b>2016</b> |   |  |  |    |
| 157.        | Adsorption Kinetics and Binding Studies of Protein Quantum Dots Interaction: A Spectroscopic Approach   | S. K. Vaishnav, J. Korram, R. Nagwanshi, K. K. Ghosh, M. L. Satnami                  | <i>J. Fluoresc.</i> , <b>2016</b> , 1-11   | 08 |
| 158.        | Spectrofluorometric Determination of Mercury and Lead by Colloidal CdS Nanomaterial   | M. L. Satnami, S. K. Vaishnav, R. Nagwanshi, K. K. Ghosh                             | <i>J. Dispersion. Sci. Tech.</i> , <b>2016</b> , 37 (2), 196-204                   | 20 |
| 159.        | Activity of $\alpha$ -Chymotrypsin in Cationic and Nonionic Micellar Media: Ultraviolet and Fluorescence Spectroscopic Approach                 | S. K. Verma, K. K. Ghosh, R. Verma, S. Verma, X. Zhao                                | <i>Inte. J. Chemi. Kinet.</i> , <b>2016</b> , 48 (2), 79-87                        | 03 |

|             |   |  |   |    |
|-------------|---|--|---|----|
| 160.        | Progress in drug development for Alzheimer's disease: An overview in relation to mitochondrial energy metabolism                                    | J. Hroudová, N. Singh, Z. Fišar, K. K. Ghosh   | <i>Euro. J. Medi. Chem.</i> , <b>2016</b> , 121, 774-784          | 37 |
| 161.        | Interaction of bovine serum albumin with cationic monomeric and dimeric surfactants: A comparative study  | S. Sinha, D. Tikariha, J. Lakra, T. Yadav, S. Kumari, S. K. Saha, K. K. Ghosh                                    | <i>J. Mol. Liq.</i> , <b>2016</b> , 218, 421-428                  | 16 |
| 162.        | Protein nanoparticle interaction: A spectrophotometric approach for adsorption kinetics and binding studies   | S.K.Vaishanav, K. Chandraker, J. Korram, R Nagwanshi, K. K. Ghosh, M. L. Satnami,                                | <i>J. Mol. Struc.</i> , <b>2016</b> , 1117, 300-310               | 09 |
| 163.        | Oxime-mediated in vitro reactivation kinetic analysis of organophosphates-inhibited human and electric eel acetylcholinesterase                     | A. K. Sahu, R. Sharma, B. Gupta, K. Musilek, K. Kuca, J. Acharya, K. K. Ghosh                                    | <i>Toxicol Mech Methods</i> , <b>2016</b> , 26, 319-326.          | 06 |
| 164.        | Synthesis and in-vitro reactivation screening of imidazolium aldoximes as reactivators of sarin and VX-inhibited human acetylcholinesterase (hAChE) | R. Sharma, B. Gupta, A. K. Sahu, J. Acharya, M. L. Satnami, K. K. Ghosh  | <i>Chemico-Biological Interactions</i> , <b>2016</b> , 259, 85-92 | 10 |
| 165.        | Degradation of Organophosphate Pesticides Using Pyridinium Based Functional Surfactants   | R. Sharma, B. Gupta, T. Yadav, S. Sinha, A. K. Sahu, Y. Karpichev, N. Gathergood, J. Marek, K. Kuca, K. K. Ghosh | <i>ACS Sustainable Chem. Eng.</i> , <b>2016</b> , 4, 6962–6973    | 16 |
| 166.        | Green Luminescent CdTe Quantum Dot Based Fluorescence Nano-Sensor for Sensitive Detection of Arsenic (III)  | S. K. Vaishanav, J. Korram, P. Pradhan, K. Chandraker, R. Nagwanshi, K. K. Ghosh, M. L. Satnami                  | <i>J. Fluoresc.</i> <b>2016</b><br>DOI- 10.1007/s10895-016-2011-0 | 14 |
| 167.        | Influence of octanohydroxamic acid on the association behavior of cationic surfactants: Hydrolytic cleavage of phosphate ester                      | M. L. Satnami, H. K. Dewangan, N. Kandpal, R. Nagwanshi, K. K. Ghosh   | <i>J. Mol. Liq.</i> , <b>2016</b> , 221, 805–814                  | 06 |
| 168.        | Influence of Amine-Based Cationic Gemini Surfactants on Catalytic Activity of $\alpha$ -Chymotrypsin  | S. K. Verma, B. K. Ghrilahre, K. K. Ghosh, R. Verma, S. Verma, X. Zhao   | <i>Int. J. Chem. Kinet.</i> <b>2016</b> , 1–6                     | 04 |
| 169.        | Metallosurfactant Aggregates as Catalysts for the Hydrolytic Cleavage of Carboxylate and Phosphate Esters   | K. K. Ghosh, B. Gupta, S. Bhattacharya   | <i>current organocatalysis</i> <b>2016</b> , 3, 6-23              | 07 |
| <b>2017</b> |   |  |   |    |
| 170.        | Mn <sup>2+</sup> doped-CdTe/ZnS modified fluorescence nanosensor for detection of glucose   | S. K. Vaishanav, J. Korram, R. Nagwanshi, K. K. Ghosh, M. L. Satnami   | <i>Sens. Actuators B Chem.</i> , 2017, 245, 196–204               | 12 |
| 171.        | Biophysical studies on the interactions between antidepressant drugs and bile salts   | T. Yadav, D. Tikariha, S. Sinha, K. K. Ghosh   | <i>J. Mol. Liq.</i> <b>2017</b> , 233, 23–28                      | 06 |
| 172.        | Surface plasmon resonance based spectrophotometric determination of   | S. K. Vaishnav, K. Patel, K. Chandraker,   | <i>Spectrochim. Acta Mol. Biomol. Spectrosc.</i>                  | 07 |

|             |  |   |  |    |
|-------------|--|---|--|----|
|             | medicinally important thiol compounds using unmodified silver nanoparticles  | J. Korram, R. Nagwanshi, K. K. Ghosh, M. L. Satnami   | <b>2017</b> , 179 155–162  |    |
| 173.        | Antibacterial properties of amino acid functionalized silver nanoparticles decorated on graphene oxide sheets  | K. Chandraker, R. Nagwanshi, S. K. Jadhav, K. K. Ghosh, M. L. Satnami.                          | <i>Spectrochim. Acta Mol. Biomol. Spectrosc.</i> <b>2017</b> , 181 47–54 | 20 |
| 174         | Kinetic Investigation of Micellar Promoted Pyridine based Oximate and Hydroxamate Catalysis on Phosphotriester Pesticides  | H. K. Dewangan, R. Nagwanshi, K. K. Ghosh, M. L. Satnami  | <i>Catal Lett.</i> , <b>2017</b> , 147, 602–611                          | 01 |
| 175         | A comparative study on the effect of imidazolium-based ionic liquid on self-aggregation of cationic, anionic and nonionic surfactants studied by surface tension, conductivity, fluorescence and FTIR spectroscopy | M. K. Banjare, R. Kurrey, T. Yadav, S. Sinha, M. L. Satnami, K. K. Ghosh                        | <i>J. Mol. Liq.</i> , <b>2017</b> , 241, 622–632                         | 24 |
| 176         | Host-Guest Complex Formation of Ionic Liquid 1-Butyl-3-Methylimidazolium Octylsulphate with $\alpha$ - and $\beta$ -Cyclodextrins.   | M. K. Banjare, K. Behera, M. L. Satnami, S. Pandey and K.K Ghosh                                | <i>Chem, Phys. Lett.</i> , <b>2017</b> , 689, 30–40                      | 09 |
| 177         | An investigation of kinetic and physicochemical properties of vesicular surfactants with oximate and hydroxamate ions: Hydrolytic reactions of organophosphorus pesticides   | N. Kandpal, H. K. Dewangan, R. Nagwanshi, K. K. Ghosh and M. L. Satnami                         | <i>J. Mol. Liq.</i> , <b>2017</b> , 243, 178–186.                        | 04 |
| <b>2018</b> |  |   |  |    |
| 178         | Spectroscopic studies on in vitro molecular interaction of highly fluorescent carbon dots with different serum albumins  | Reshma, S. K. Vaishnav, I. Karbhal, M. L. Satnami and K. K. Ghosh                               | <i>J. Mol. Liq.</i> , <b>2018</b> , 255, 279–287                         | 11 |
| 179         | Self-Assembly of Short-Chain Ionic Liquid within Deep Eutectic Solvents  | M. K. Banjare, K. Behera, M. L. Satnami, S. Pandey and K.K Ghosh                                | <i>RSC Adv.</i> <b>2018</b> 8, 7969                                      | 12 |
| 180         | An Imidazolium-based Ionic Liquid as Modulator of Physicochemical Properties of Cationic, Anionic, Nonionic and Gemini Surfactants   | A. Kumar, M. K. Banjare, S. Sinha, T. Yadav, Reshma, M. L. Satnami and K. K. Ghosh              | <i>J. Surfactants Deterg.</i> <b>2018</b> 21, 355–366                    | 03 |
| 181         | Self-aggregation of bio-surfactants within ionic liquid 1-ethyl-3-methylimidazolium bromide: A comparative study and potential application in antidepressants drug aggregation                                     | M. K. Banjare, K. Behera, R. Kurrey, R. K. Banjare, M. L. Satnami, S. Pandey, K. K. Ghosh       | <i>Spectrochim. Acta A</i> <b>2018</b> , 199, 376–386                    | 07 |
| 182         | Host-Guest Complexation of Ionic Liquid with $\alpha$ - and $\beta$ -Cyclodextrins :A Comparative Study by <sup>1</sup> H-NMR, <sup>13</sup> C-NMR and COSY  | M. K. Banjare, K. Behera, M. L. Satnami, S. Pandey, K. K. Ghosh                                 | <i>New J. Chem.</i> , <b>2018</b> , 42, 14542-14550                      | 06 |
| 183         | Gold nanoprobe for inhibition and reactivation of acetylcholinesterase: An application to detection of organophosphorus pesticides   | M. L. Satnami, J. Korram, R. Nagwanshi, S. K. Vaishnav, I. Karbhal, H. K. Dewangan, K. K. Ghosh | <i>Sens. Actuators B Chem.</i> , <b>2018</b> , 267, 155-164              | 17 |

2019

|     |   |  |   |    |
|-----|---|--|---|----|
| 184 | Silver nanoparticles for selective detection of phosphorus pesticide containing $\pi$ -conjugated pyrimidine nitrogen and sulfur moieties through non-covalent interactions | K. Shrivastava, S. Sahu, B. Sahu, R. Kurrey, T. K. Patle, Tushar Kant, I. Karbhaj, M. L. Satnami, M. K. Deb, K. K. Ghosh | <i>J. Mol. Liq.</i> , <b>2019</b> , 275, 297-303                                    | 03 |
| 185 | A carbon quantum dot-gold nanoparticle system as a probe for the inhibition and reactivation of acetylcholinesterase: detection of pesticides                               | J. Korram, L. Dewangan, R. Nagwanshi, I. Karbhaj, K. K. Ghosh, M. L. Satnami,  | <i>New J. Chem.</i> , <b>2019</b> , <b>43</b> , 6874-6882                           | 08 |
| 186 | Antidepressant Drug-Protein Interactions Studied by Spectroscopic Methods Based on Fluorescent Carbon Quantum Dots  | Reshma, S. K. Vaishnav, T. Yadav, S. Sinha, S. Tiwari, M. L. Satnami, K.K. Ghosh   | <i>Heliyon</i> , <b>2019</b> , <b>5</b> , e01631                                    | 00 |
| 187 | Interaction of Ionic Liquid with Silver Nanoparticles: Potential Application in Induced Structural Changes of Globular Proteins   | M. K. Banjare, K. Behera, Reshma, S. Sharma, R. K. Banjare, S. Pandey, K. K. Ghosh                                       | <i>ACS Sustainable Chem. Eng.</i> , <b>2019</b> , <b>7</b> (13), 11088-11100,       | 03 |
| 188 | Interaction of Synthesized Nitrogen enriched Graphene Quantum Dots with Novel Anti-Alzheimer's Drugs: Spectroscopic Insights  | S. Sharma, N. Singh, E. Nepovimova, J. Korabecny, K. Kuca, M. L. Satnami, K. K. Ghosh                                    | <i>J Biomol Struct Dyn.</i> ,<br>Doi: 10.1080/07391102<br>2020 Apr;38(6):1822-1837. | 03 |
| 189 | Inclusion Complex Formation of Novel Synthesis Ionic Liquids with $\beta$ -Cyclodextrin   | Manoj K. Banjare, Prashant Mundeja, Ashish Saraf and Kallol K. Ghosh   | <i>Int. J. Sci. Research</i> ,<br>2019, 0, 6.                                       | 00 |
| 190 | Inclusion Complexation of Novel Synthesis Amino Acid based Ionic Liquid with $\beta$ -Cyclodextrin  | M. K. Banjare, K. Behera, Siddharth Pandey, R. K. Banjare, P. Mundeja, K. K. Ghosh                                       | <i>J. Mol. Liq.</i> , <b>2019</b> , 299, 112204                                     | 02 |
| 191 | Inclusion Complexation of Imidazolium-Based Ionic Liquid and $\beta$ -Cyclodextrin : A Detailed Spectroscopic Investigation   | M. K. Banjare, K. Behera, Siddharth Pandey, R. K. Banjare, K. K. Ghosh   | <i>J. Mol. Liq.</i> , <b>2019</b> , 302, 112530                                     | 02 |
| 192 | Facile and visual detection of acetylcholinesterase inhibitors by carbon quantum dots   | Reshma, Bhanushree Gupta, Rahul Sharma, Kallol K Ghosh   | <i>New Journal of Chemistry</i> ,<br><b>2019</b> , <b>43</b> , 9924-9933            | 00 |

2020

|     |  |   |  |    |
|-----|--|---|--|----|
| 193 | Multi-spectroscopic investigation on the inclusion complexation of $\alpha$ -cyclodextrin with long chain ionic liquid | M. K. Banjare, K. Behera, Siddharth Pandey, R. K. Banjare, K. K. Ghosh      | <i>Carbohydrate Research</i> ,<br>2020, 491, 107982. | 00 |
| 194 | An example of green surfactant systems based on inherently biodegradable IL-derived amphiphilic oximes                 | S. J. Pandya, I. V. Kapitanov, Z. Usmani, R. Sahu, D. Sinha, N. Gathergood, | <i>J. Mol. Liq.</i> , 2020. <b>305</b> , 112857      | 00 |

|      |   |  |                                       |  |
|------|---|--|---------------------------------------|--|
|      |   | K K. Ghosh, Y. Karpichev   |                                       |  |
| 195  | Effects of 1-Acyl-3-Methylimidazolium Tetrachloroferrate Ionic Liquid on the Micellar Properties of Novel Gemini Surfactants in Aqueous Solution        | R. Suryawanshi, M. K. Banjare, K. Behera, R. K Banjare, R. Sahu, S. Pandey, A. Saha, S. Benerjee and Kallol K. Ghosh.        | J Sol Chem., 2020<br><b>Published</b> |  |
| 196. | Influence of Cationic Surfactants and Inorganic Salts on the Enzymatic Activity of Mucor javanicus Lipase,  | Santosh K. Verma, Kallol K. Ghosh, Rameshwari Verma, Shekhar Verma   | Int. J. Chem. Kinet., 2020 (In Press) |  |
| 197. | Exploring Spectroscopic Insights into Molecular Recognition of Potential Anti-Alzheimer's Drugs within the Hydrophobic Pockets of $\beta$ -Cycloamylose | S. Sharma, M. K. Banjare, N. Singh, J. Korábečný, Z. Fišar, K. Kuča, K. K. Ghosh   | J. Mol.Liq 2020                       |  |
| 198. | CdTe QD-Based Inhibition and Reactivation Assay of Acetylcholinesterase for Detection of Organophosphorus Pesticides                                    | Korram, Jyoti; Dewangan, Lakshita; Karbhal, Indrapal; Nagwanshi, Rekha; Vaishanav, Sandeep; Ghosh, Kallol; Satnami, Manmohan | RSC Advance 2020<br>In Press          |  |

**Prof. Manas Kanti Deb**

|  |
|--|
| R Kurrey, M Mahilang, <b>MK Deb</b> , J Nirmalkar, K Shrivass, S Pervez, MK Rai,) A direct DRS-FTIR probe for rapid detection and quantification of fluoroquinolone antibiotics in poultry egg-yolk, Food chemistry (© Elsevier), 2019, 270, 459-466   |
| R Kurrey, M Mahilang, <b>MK Deb</b> , K Shrivass Analytical approach on surface active agents in the environment and challenges, Trends in Environmental Analytical Chemistry (© Elsevier), Volume 21, January 2019, e00061  |
| R Kurrey, <b>MK Deb</b> , K Shrivass, Surface enhanced infra-red spectroscopy with modified silver nanoparticles (AgNPs) for detection of quaternary ammonium cationic surfactants<br>New Journal of Chemistry 43 (21), 8109-8121  |
| S Tiwari, <b>MK Deb</b> , Modified silver nanoparticles enhanced single drop micro extraction of tartrazine in food samples coupled with diffuse reflectance Fourier transform infrared spectroscopic analysis<br>Analytical Methods (RSC) 2019,11, 3552-3562  |
| Kamlesh Shrivass, Sushama Sahu, Bhuneshwari Sahu, Ramsingh Kurrey, Tarun Kumar Patle, Tushar Kant, Indrapal Karbhal, Manmohan L Satnami, <b>Manas Kanti Deb</b> , Kallol Kumar Ghosh, Silver nanoparticles for selective detection of phosphorus pesticide containing $\pi$ -conjugated pyrimidine nitrogen and sulfur moieties through non-covalent interactions, Journal of Molecular Liquids ((© Elsevier) 2019, 275, 297-303 |



K Shrivastava, N Nirmalkar, **MK Deb**, K Dewangan, J Nirmalkar, S Kumar, Application of functionalized silver nanoparticles as a biochemical sensor for selective detection of lysozyme protein in milk sample  
Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy ((© Elsevier), 2019, 213, 127-133

Kamlesh Shrivastava, Nidhi Nirmalkar, Santosh Singh Thakur, **Manas Kanti Deb**, Sandip S Shinde, Ravi Shankar, Sucrose capped gold nanoparticles as a plasmonic chemical sensor based on non-covalent interactions: Application for selective detection of vitamins B1 and B6 in brown rice, Food chemistry (Elsevier), 2018, 250, 14-21

R Kurrey, **MK Deb**, KShrivastava, Methyl Orange Paired Microextraction and Diffuse Reflectance Fourier Transform Infrared Spectral Monitoring for Improved Signal Strength of Total Mixed Cationic Surfactants

JL Matawle, S Pervez, **MK Deb**, AShrivastava, S Tiwari, PM2.5pollution from household solid fuel burning practices in Central India: 2. Application of receptor models for source apportionment,  
Environmental geochemistry and health(Springer), 2018,40 (1), 145-161

A Ghosale, K Shrivastava, **MK Deb**, V Ganesan, I Karbhal, PK Bajpai A low-cost screen printed glass electrode with silver nano-ink for electrochemical detection of H<sub>2</sub>O<sub>2</sub>, Analytical methods (RSC), 2018, 10 (26), 3248-3255

JL Matawle, S Pervez, A Shrivastava, S Tiwari, P Pant, **MKDeb**, DS Bisht, PM2.5pollution from household solid fuel burning practices in central India: 1. Impact on indoor air quality and associated health risks  
Environmental geochemistry and health(Springer), 2017, 39 (5), 1045-1058

BK Sen, S Tiwari, **M K Deb**, S Pervez, Determination of Selenium by Single-Drop Microextraction and Diffuse Reflectance Infrared Spectroscopy, Analytical Letters(Taylor Francis)50(9), 1483-1496

S Tiwari, **MK Deb**, BK Sen, Cloud point extraction and diffuse reflectance-Fourier transform infrared spectroscopic determination of chromium(VI): A probe to adulteration in food stuffs, Food chemistry(Elsevier), 2019, 221, 47-53

BK Sen, S Tiwari, **MK Deb**, Fourier transform infrared spectroscopy combined with single-drop micro-extraction for quantitative analysis of tungstate in biological samples()  
Vibrational Spectroscopy(Elsevier, 2017 89, 9-15

Jeevan Lal Matawle . Shamsh Pervez . Anjali Shrivastava. Suresh Tiwari . Pallavi Pant . **Manas Kanti Deb** . Diwan Singh Bisht. Yasmeeen F. Pervez, PM2.5 pollution from household solid fuel burning practices in central India: Impact on indoor air quality and associated health risks, Environ. Geochem. Health © Springer Science+Business Media Dordrecht 2016 DOI 10.1007/s10653-016-9871-8 Accepted: 6 September 2016

Bhupendra Kumar Sen, **Manas Kanti Deb\***, Swapnil Tiwari, Shamsh Pervez, Determination of Selenium by Single-Drop Microextraction and Diffuse Reflectance Infrared Spectroscopy, Analytical Letters, © Taylor & Francis, LANL-2016-0964, Accepted August 24, 2016 IF: 1.20

Dhananjay K. Deshmukh\*, Kimitaka Kawamura, **Manas K. Deb**, and Suresh Kumar Reddy Boreddy, Dicarboxylic acids,  $\omega$ -oxocarboxylic acids,  $\alpha$ -dicarbonyls, WSOC, OC, EC, and inorganic ions in wintertime size-segregated aerosols from central India: sources and formation processes, Chemosphere, © Elsevier, 161 (2016) 27-42 IF: 3.698

Bhupendra K. Sen, **Manas Kanti Deb\***, Swapnil Tiwari, Fourier transform infrared spectroscopy combined with single-drop micro-extraction for quantitative analysis of tungstate in biological samples Vibrational Spectroscopy, © Elsevier, Accepted 24,12-2016 IF : 1.682

Swapnil Tiwari, **Manas Kanti Deb\***, Bhupendra K. Sen, Cloud point extraction and diffuse reflectance-Fourier transform infrared spectroscopic determination of chromium(VI): a probe to adulteration in food stuffs, Food Chemistry, © Elsevier, Vol. 221, 15 April 2017, Pages 47–53; IF : 4.052

Ramsingh Kurre, **Manas Kanti Deb\***, Jayant Nirmalkar, Bhupendra Sen, Swapnil Tiwari, Swati Chandrawanshi Analytical Approach on Surface Active Agents in the Environment and Related Problems and Challenges: A Review, J. Surfactants & Detergents © Springer, Submitted JSD-16-0153, 26-04-2016.

Dhananjay K. Deshmukh, Kimitaka Kawamura\*, **Manas K. Deb**, and Suresh Kumar Reddy Boreddy, Sources and formation processes of water-soluble dicarboxylic acids,  $\omega$ -oxocarboxylic acids,  $\alpha$ -dicarbonyls, and major ions in summer aerosols from eastern central India, Journal of Geophysical Res. © AGU, DOI:10.1002/2016JD026246, Online 08-03-2017

Jeevan Matawle, Shamsh Pervez, Anjali Shrivastava, Suresh Tiwari, Pallavi Pant, **Manas K Deb**, Diwan S Bisht Indoor PM2.5 emissions and associated health risks from household solid fuel burning practices, Urban Climate, © Elsevier, submitted 24-12-2015

Jeevan Matawle, S. Pervez, Shippi Dewangan, Anjali Shrivastava, Pallavi Pant, Suresh Tiwari, **Manas K Deb**, Yasmin Pervez, Characterization of PM<sub>2.5</sub> Source Profiles for Traffic and Dust Sources in Raipur, India, *Aerosol Air Qual. Res.*, © TAAR, AAQR-15-04-OA-0222.R2 (Accepted: 14 Sept 2015) IF: 2.09

Jayant Nirmalkar, **Manas Kanti Deb\***, Swati Chandrawanshi, Swapnil Tiwari, Dhananjay Deshmukh, Seasonal size distribution and possible health implications of atmospheric aerosols collected from a rural site of eastern central, India, *Atmos. Poll. Res.* March 2016, (2), 278–287 IF: 1.371

Bhupendra K. Sen, Swapnil Tiwari, **Manas Kanti Deb\***, Shamsh Pervez) Nanogram level quantification of molybdenum(VI) by novel hyphenated SDME/DRS-FTIR in human biological fluid (*Anal. Methods*, ©Royal Society of Chemistry, 2015, 7, 9474-9481 IF 1.821

Jolly Pal, **Manas K Deb\*** Microwave-assisted synthesis of palladium nanoparticles and its catalytic degradation of organic dyes in aqueous solution, *Journal of Water Chemistry and Technology*, © Springer (Accepted), 2015; MS # 1124

Jayant Nirmalkar, **M.K. Deb\***, Y.I. Tsai, D.K. Deshmukh, Arabitol and mannitol as tracers for fungal contribution to size-differentiated particulate matter of rural atmospheric aerosols, *Intern. J Environ. Sci. Dev.*, © IACSIT Press, 6(6), June 2015, 460-463

Jayant Nirmalkar, **Manas K. Deb\*** Impact of intense field burning episode on aerosol mass loading and its possible health implications in rural area of eastern central India, *Air Qual. Atmos. Health*, © Springer, DOI 10.1007/s11869-015-0330-y, Feb 2015: IF 1.801

Jayant Nirmalkar, **Manas K Deb\***, Dhananjay K. Deshmukh, Ying I Tsai\*, Khajornsak Sopajaree, Mass loading and temporal variation of molecular markers in PM<sub>2.5</sub> aerosols over a rural area in eastern central India *Atmospheric Environment*, © Elsevier, 2015, 117, 41-50, IF 3.281

S Sharma, **M.K. Deb**, Catalytic diazotization using silver and gold nanoparticles and spectrophotometric determination of parathion residues in fruit and soil, *J. Indian Chem. Soc.*, © JICS, 91 (1), 101-105, 2014

Jolly Pal, M.K. Deb, Dhananjay Deshmukh Removal of phenol in aqueous solution by adsorption onto green synthesized coinage nanoparticles beads, *Res. Chem. Intermediates*, © Springer, MSiD RINT-D-14-00577R1. (Accepted- 08 Dec 2014) IF: 1.54

Bhupendra K Sen, Dhananjay K Deshmukh\*, **Manas K Deb**, Devsharan Verma, Jolly Pal Removal of phenolic compounds from aqueous phase by adsorption onto polymer supported iron nanoparticles, *Bulletin of Environ.*

Cont. Toxic., © Springer, MS BECT7058.R1 (Accepted), 2014, IF: 1.26

Jayant Nirmalkar, **Manas Kanti Deb**, Dhananjay Deshmukh, Y.I. Tsai\*, Santosh Kumar Verma, Molecular markers in ambient aerosol in the Mahanadi Riverside Basin of eastern central India during winter, Environmental Science and Pollution Research © Springer, 22 (2015), 1220-1231, IF 2.83

## **Prof. Shamsh Pervez**

Sahu RK, **Pervez S**, Bano S, Matawle JL, and Pervez Y., 2019. Physico-chemical characteristics and sources of ambient aerosol in India during 2001-2015: A review. Asian Journal of Chemistry, Volume 31

**Pervez S**, Verma M, Tiwari S, Chakrabarty RK, Watson JG, Chow JC, Panicker AS, Deb MK, Siddiqui MN, Pervez YF. Household solid fuel burning emission characterization and activity levels in India. Science of The Total Environment. 2019 Mar 1; 654:493-504.

Kurrey R, Mahilang M, Deb MK, Nirmalkar J, Shrivastava K, **Pervez S**, Rai MK, Rai J. A direct DRS- FTIR probe for rapid detection and quantification of fluoroquinolone antibiotics in poultry egg-yolk. Food chemistry. 2019 Jan 1; 270:459-66.

Balakrishna G, **Pervez S**. 2015. Liquid Organic Spent Solvents Co-processing in Cement Industries. International Journal of Alternative Fuels and Energy. 2018 Sep 15;2(2):16-20.

Bano S, **Pervez S**, Chow JC, Matawle JL, Watson JG, Sahu RK, Srivastava A, Tiwari S, Pervez YF, Deb MK. Coarse particle (PM 10–2.5) source profiles for emissions from domestic cooking and industrial process in Central India. Science of the Total Environment. 2018 Jun 15;627:1137-45.

Sahu RK, **Pervez S**, Chow JC, Watson JG, Tiwari S, Panicker AS, Chakrabarty RK, Pervez YF. Temporal and spatial variations of PM 2.5 organic and elemental carbon in Central India. Environmental geochemistry and health. 2018 Mar 30:1-8.

Matawle JL, **Pervez S**, Deb MK, Shrivastava A, Tiwari S. PM 2.5 pollution from household solid fuel burning practices in Central India: 2. Application of receptor models for source apportionment. Environmental geochemistry and health. 2018 Feb 1;40(1):145-61.

Verma M, **Pervez S**, Majumdar D, Chakrabarty R, Pervez YF. Emission estimation of aromatic and halogenated VOCs from household solid fuel burning practices. International Journal of Environmental Science and Technology. 2018;1-0.

**Pervez S**, Bano S, Watson JG, Chow JC, Matawle JL, Shrivastava A, Tiwari S, Pervez YF. Source profiles for PM10-2.5 resuspended dust and vehicle exhaust emissions in central India. Aerosol and Air Quality Research. 2018;18:1660-72.

Pandey A, Patel S, **Pervez S**, Tiwari S, Yadama G, Chow JC, Watson JG, Biswas P, Chakrabarty RK. Aerosol emissions factors from traditional biomass cookstoves in India: insights from field measurements. Atmospheric Chemistry and Physics. 2017 Nov 17;17(22):13721-9.

Matawle JL, **Pervez S**, Shrivastava A, Tiwari S, Pant P, Deb MK, Bisht DS, Pervez YF. PM2.5 pollution from household solid fuel burning practices in central India: 1. Impact on indoor air quality and associated health risks. Environmental geochemistry and health. 2017 Oct 1;39(5):1045-58.

PrincyDugga, **Shamsh Pervez**, Rakesh Kumar Sahu, Madhuri Verma, ShahinaBano, Manas K Deb. Spatiotemporal Variation in Groundwater Quality of India during last 15 Years: A Review Journal of Ravishankar University 2017, 30, 1&2:41-50

Sen BK, Tiwari S, Deb MK, **Pervez S**. Determination of Selenium by Single-Drop Microextraction and Diffuse Reflectance Infrared Spectroscopy. Analytical Letters. 2017 Jun 13;50(9):1483-96.

Sameer Patel, Jiayu Li, Apoorva Pandey, **Shamsh Pervez**, Rajan K Chakrabarty, Pratim Biswas, 2017, Spatio-temporal measurement of indoor particulate matter concentrations using a wireless network of low-cost sensors in households using solid fuels, Environmental Research. 2017 152: 59-65.

PSP Rao, Suresh Tiwari, JL Matwale, **S Pervez**, Peter Tunved, PD Safai, AK Srivastava, DS Bisht, S Singh, PK Hopke, 2016, Sources of chemical species in rainwater during monsoon and non-monsoonal periods over two mega cities in India and dominant source region of secondary aerosols, Atmospheric Environment, 146:90-99.

Apoorva Pandey, **Shamsh Pervez**, Rajan K Chakrabarty, 2016, Filter-based measurements of UV-vis mass absorption cross sections of organic carbon aerosol from residential biomass combustion: Preliminary findings and sources of uncertainty, 2016, Journal of Quantitative Spectroscopy and Radiative Transfer 182: 296-304.

Shippi Dewangan, **Shamsh Pervez**, Rajan Chakrabarty, John G Watson, Judith C Chow, Yasmeen Pervez, Suresh Tiwari, Joyce Rai, 2016, Study of carbonaceous fractions associated with indoor PM 2.5/PM 10 during Asian cultural and ritual burning practices, *Building and Environment*, 106: 229-236.

Bhupendra K Sen, Swapnil Tiwari, Manas K Deb, **Shamsh Pervez**, 2016, Determination of Selenium by Single-Drop Microextraction and Diffuse Reflectance Infrared Spectroscopy, *Analytical Letters*, DOI: 10.1080/00032719.2016.1229786.

Tajamul Hussain, Omar S Al-Attas, Salman A Alrokayan, Mukhtar Ahmed, Nasser M Al-Daghri, Salman Al-Ameri, **Shamsh Pervez**, ShippiDewangan, Arif Mohammed, Dikshit Gambhir, Terrance S Sumague, 2016, Deleterious effects of incense smoke exposure on kidney function and architecture in male albino rats, *Inhalation Toxicology*, 28(8):364-373

ShahinaBano, **Shamsh Pervez**, 2015. Source apportionment and health effect studies associated with indoor fine particulates during last decade in South Asia: A review. *Journal of Ravishankar University – Part-B (Science)*, Raipur, India (Paper accepted).

James Mathew, **Shamsh Pervez**, 2015. Investigation of Dominating Routes of Personal Particulates among Welders in a Mixed Urban Industrial Environment, *Journal of Ravishankar University – Part-B (Science)*, 28 (2): 1-7

**Shamsh Pervez**, Rajan K Chakrabarty, ShippiDewangan, John G Watson, Judith C Chow, Jeevan Lal Matawle, 2015. Chemical speciation of aerosols and air quality degradation during the festival of lights (Diwali), *Atmospheric Pollution Research (Elsevier)*, doi:10.1016/j.apr.2015.09.002

Jeevan Lal Matawle, **Shamsh Pervez**, ShippiDewangan, Anjali Shrivastava, Suresh Tiwari, Pallavi Pant, ManasKanti Deb, Yasmeen Pervez, 2015. Characterization of PM2. 5 Source Profiles for Traffic and Dust Sources in Raipur, India, *Aerosol and Air Quality Research*, 15(7): 2537-2548.

Bhupendra K Sen, Swapnil Tiwari, Manas Kanti Deb, **Shamsh Pervez**, 2015. Nanogram level quantification of molybdenum (vi) by novel hyphenated SDME/DRS-FTIR in human biological fluid, *Analytical Methods*, 7(22):9474-9481.

G Balakrishna, **Shamsh Pervez**, ShippiDewangan, Jeevan Matawale, Neha Dubey, 2015, Air Pollution, Sources and Effects on Health and Vegetation in Developing Countries-A Review, *Journal of Energy and Environmental*

Engineering, 1(1): 1-7.

S Tiwari, AS Pipal, Philip K Hopke, DS Bisht, AK Srivastava, Shani Tiwari, PN Saxena, AH Khan, **S Pervez**, 2015, Study of the carbonaceous aerosol and morphological analysis of fine particles along with their mixing state in Delhi, India: a case study, Environmental Science and Pollution Research, DOI 10.1007/s11356-015-4272-64

Jeevan Lal Matawle, **Shamsh Pervez**, ShippiDewangan, Suresh Tiwari, Deewan Singh Bisht, Yasmeen F Pervez, 2014, PM2.5 Chemical Source Profiles of Emissions Resulting from Industrial and Domestic Burning Activities in India, Aerosol and Air Quality Research, doi: 10.4209/aaqr.2014.03.0048.

**Shamsh Pervez**, Rajan Chakrabarty, ShippiDewangan, John G. Watson, Judith C. Chow, Jeevan Lal Matawle, Yasmeen Pervez, 2014. Cultural and Ritual Burning Emission Factors and Activity Levels in India, Aerosol and Air Quality Research, doi:10.4209/aaqr.2014.01.0022.

### **Dr. Manish K. Rai**

Deepak kumar sahu, **Manish Kumar Rai**, Analytical studies for the determination of dicofol pesticide with p-nitroaniline reagent. prashant mundeja, kalpana wani, International Journal of research in chemistry and environment, **2018**, 8, 26-30

Deepak kumar sahu, **Manish Kumar Rai**, A selective spectrophotometric determination of metsulfuron methyl with 4-amino azobenzene in various environmental samples. prashant mundeja, Journal of applicable chemistry, **2017**, 6, 1130-1138

Kalpana Wani, prashant mundeja, Mamta Nirmal, vindhiya patel, Raisa Khatoon, ajay kumar sahu, Deepak kumar sahu, **Manish Kumar Rai**, A rapid & accurate non Extractive procedure for analysing Monocrotophos in environmental samples by spectrophotometry, Journal of Ravishankar University, **2017**, 30(1&2), 66-73.

Mamta Nirmal, prashant mundeja, Kalpana Wani, vindhiya patel, Raisa Khatoon, ajay kumar sahu, Deepak kumar sahu, **Manish Kumar Rai** Assessment of Fenvalerate in water, soil and vegetable samples, Journal of Ravishankar University, **2017**, 30(1&2), 60-65.

Raisa Khatoon, prashant mundeja, Mamta Nirmal, vindhiya patel, Kalpana Wani, ajay kumar sahu, Deepak kumar sahu, **Manish Kumar Rai** Development of Single-residue method to validate detection of

Alphacypermethrin, Journal of Ravishankar University, **2017**, 30(1&2), 53-59.

Kalpana Wani, Mamta Nirmal, Raisa Khatoon, **Manish Kumar Rai**, Analytical Determination of Carbendazim in Environmental Samples with Iron(III) and 1,10-Phenanthroline as Reagents, Asian Journal of Chemistry, article No. 20178/2016, vol-28 , **2017**

Mamta Nirmal, Raisa Khatoon, **Manish Kumar Rai**, Sensitive spectrophotometric determination of deltamethrin using leuco malachite green in environmental samples, Asian Journal of Chemistry, vol-28 , No. 4, **2016**

### **Dr. Kamlesh K. Shrivastava**

**K. Shrivastava\***, B. Sahu, M. K. Deb, S. S. Thakur, S. Sahu, R. Kurrey, T. Kant, T. K. Patle, R. Jangde, Colorimetric and paper-based detection of lead using PVA capped silver nanoparticles: Experimental and theoretical approach, *Microchemical Journal*, 2019, 150, 104156 (Impact Factor:3.206)

**K. Shrivastava\***, A. Ghosale, T. Kant, P. K. Bajpai and R. Shankar, The direct-writing of low cost paper based flexible electrodes and touch pad devices using silver nanoink and ZnO nanoparticles, RSC Advance, 2019, 9, 17868–17876. (Impact Factor-2.936).

**K. Shrivastava**, N. Nirmalkar, M. K. Deb, K. Dewangan, J. Nirmalkar, S. Kumar, Application of functionalized silver nanoparticles as a biochemical sensor for selective detection of lysozyme protein in milk sample, *Spectrochimica Acta Part A*, 2019, 213, 127–133 (IF:2.880).

S. Yadav, **K. Shrivastava**, P. K. Bajpai, Role of precursors in controlling the size, shape and morphology in the synthesis of copper sulfide nanoparticles and their application for fluorescence detection, *Journal of Alloys and Compounds*, 2019, 772, 579–592 (IF-3.779).

**K. Shrivastava**, S. Sahu, B. Sahu, R. Kurrey, T. K. Patle, T. Kant, I. Karbhal, M. L. Satnami, M. K. Deb, K. K. Ghosh, Silver nanoparticles for selective detection of phosphorus pesticide, containing  $\pi$ -conjugated pyrimidine nitrogen and sulfur moieties through non-covalent interactions, *Journal of Molecular Liquids*, 2019, 275, 297–303 (IF-4.513)

**K. Shrivastava\***, N. Nirmalkar, S. S. Thakur, M. K. Deb, S. S. Shinde, R. Shankar, Sucrose capped gold



nanoparticles as a plasmonic chemical sensor based on non-covalent interactions: Application for selective detection of vitamins B<sub>1</sub> and B<sub>6</sub> in brown and white rice food samples, 2018, 250, 14-21. (IF-4.946)

**K. Shrivastava\***, N. Nirmalkar, S. S. Thakur, R. Kurrey, D. Sinha, R. Shankar, Experimental and theoretical approach for selective detection of thymine in real samples using gold nanoparticles as a biochemical sensor, RSC Advance, 2018, 8, 24328-24337 (IF: 3.10)

A. Ghosale, **K. Shrivastava\***, M. K. Deb, V. Ganesan, I. Karbhal, P. K. Bajpai, R. Shankar, A low-cost screen printed glass electrode with silver nano-ink for electrochemical detection of H<sub>2</sub>O<sub>2</sub>, Anal. Methods, 2018, 10, 3248-3255. (IF: 2.073)

R. Kurrey, M. K. Deb, **K. Shrivastava**, Methyl orange paired microextraction and diffuse reflectance-fourier transform infrared spectral monitoring for improved signal strength of total mixed cationic surfactants, Journal of Surfactants Detergents, 2018, 21, 197–208. (IF: 1.450)

A. Ghosale, **K. Shrivastava\***, R. Shankar, and V. Ganesan, Low Cost Paper Electrode Fabricated by Direct Writing with Silver Nanoparticles Based Ink for Detection of Hydrogen Peroxide in Waste Water, Analytical Chemistry (ACS), 2017, 89, 776-782. (IF-6.552)

**K. Shrivastava\***, J. Sahu, P. Maji, D. Sinha, Label-free selective detection of ampicillin drug in human urine samples using silver nanoparticles as a colorimetric sensing probe, New Journal of Chemistry (RSC) 2017, 41, 6685—6692 (IF-3.277).

**K. Shrivastava\***, A. Ghosale, N. Nirmalkar, A. Shrivastava, S. K. Singh, Sandeep S. Shinde, Removal of endrin and dieldrin isomeric pesticides through stereoselective adsorption behavior on the graphene oxide-magnetic nanoparticles, Environmental Science and Pollution Research, 2017, 24, 24980-24988 (IF-2.800).

**K. Shrivastava\***, P. Maji, K. Dewangan, Onsite-detection of barium and nickel from river, pond and tap water samples using gold nanoparticles as a chemical sensor, Spectrochim. Acta Part A, 2017, 630-636. (IF-2.880)

**K. Shrivastava\***, N. Nirmalkar, A. Ghosale, S. S. Thakur, R. Shankar, Enhancement of plasmonic resonance through the exchange reaction on the surface of silver nanoparticles: application for highly selective detection of triazophos pesticide in food vegetable samples, RSC Advance, 2016, 6, 80739-80747. (IF 3.82).

A. Ghosale, R. Shankar, V. Ganesan, **K. Shrivastava\***, Direct-writing of paper based conductive track using silver nano-ink for electroanalytical application, *Electrochimica Acta*, 2016, 209, 511-520. (IF-4.798).

**K. Shrivias\***, K. Dewangan, A. Ahmed, Surfactant-based dispersive liquid–liquid microextraction for the determination of zinc in environmental water samples using flame atomic absorption spectrometry, *Analytical Methods*, 2016, 8, 5519-5525. (IF-1.900).

**K. Shrivias\***, N. Nirmalkar, A Ghosale, S. S. Thakur, Application of silver nanoparticles for a highly selective colorimetric assay of endrin in water and food samples based on stereoselective endo-recognition, *RSC Advances*, 2016, 6, 29855-29862. (IF 3.82).

**K. Shrivias\***, S. Sahu, A. Ghorai, R. Shankar, Gold nanoparticles-based colorimetric determination of cationic surfactants in environmental samples via both electrostatic and hydrophobic interactions, *Microchimica Acta*, 2016, 183, 827-836. (IF 4.580).

**K. Shrivias\***, S. Sahu, G. K. Patra, N. K. Jaiswal, R. Shankar, Localized surface Plasmon resonance of silver nanoparticles for sensitive colorimetric detection of chromium in surface water, industrial waste water and vegetable samples, *Analytical Methods*, 2016, 8, 2086-2096. (IF1.900).

A. Sharma, K. Tapadia, R. Sahin, **K. Shrivias**, Surfactant assisted nanodrop spectrophotometer determination of iron in a single drop of food, biological and environmental samples, *Journal of Applied Spectroscopy*, 2016, 82, 1064-1071. (IF 0.476)

**K. Shrivias\***, R. Shankar, K. Dewangan, Gold nanoparticles as localized surface Plasmon (LSPR) based chemical sensor for on-site colorimetric detection of arsenic in water samples, *Sensors and Actuators B*, 2015, 220, 1376-1383 (IF 5.401)

**K. Shrivias\***, K. Tapadia, Ionic liquid matrix based dispersive liquid-liquid microextraction for enhanced MALDI-MS analysis of phospholipids in soybean, *Journal of Chromatography B*, 2015, 1001, 124-130. (IF 2.729)

**K. Shrivias\***, K. Dewangan, Surfactant-assisted dispersive liquid-liquid microextraction for sensitive spectrophotometric determination of iron in food and water samples and comparison with atomic absorption spectrometry, *Journal of Surfactants and Detergents*, 2015, 18, 1137-1144. (IF 1.82)

## Dr. Manmohan L. Satnami

Manoj Kumar Banjare, Kamalakanta Behera, Ramesh Kumar Banjare, Reshma Sahu, Srishti Sharma, Siddharth Pandey, **Manmohan L. Satnami**, Kallol K Ghosh Interaction of Ionic Liquid with Silver Nanoparticles: Potential Application in Induced Structural Changes of Globular Proteins, *ACS Sustainable Chem. Eng.*, **2019**, 7, 11088-11100.

Sandeep K Vaishnav, Toshikee Yadav, Srishti Sinha, Swapnil Tiwari, **Manmohan L Satnami**, Kallol K Ghosh, Antidepressant drug-protein interactions studied by spectroscopic methods based on fluorescent carbon quantum dots, *Heliyon*, **2019**, 5, e01631.

N Kandpal, HK Dewangan, R Nagwanshi, KK Ghosh, **ML Satnami**, Influence of pyridine oximate and quaternized pyridinium oximate ions on the hydrolysis of phosphate esters in cationic microemulsions, *J. Dis. Sci. Technology*, **2019**, 40, 604-611.

Kamlesh Shrivastava, Sushama Sahu, Bhuneshwari Sahu, Ramsingh Kurrey, Tarun Kumar Patle, Tushar Kant, Indrapal Karbhal, **Manmohan L Satnami**, Manas Silver nanoparticles for selective detection of phosphorus pesticide containing  $\pi$ -conjugated pyrimidine nitrogen and sulfur moieties through non-covalent interactions *J. Mol. Liq.*, **2019**, 275, 297-303.

Bhumika Yadu, Vibhuti Chandrakar, Jyoti Korram, **Manmohan L Satnami**, Meetul Kumar, S Keshavkant, Silver nanoparticle modulates gene expressions, glyoxalase system and oxidative stress markers in fluoride stressed *Cajanus cajan* L. *J. Hazard. Mater.*, **2018**, 353, 44-52.

Manoj Kumar Banjare, Kamalakanta Behera, Ramsingh Kurrey, Ramesh Kumar Banjare, **Manmohan L Satnami**, Siddharth Pandey, Kallol K Ghosh Self-aggregation of bio-surfactants within ionic liquid 1-ethyl-3-methylimidazolium bromide: A comparative study and potential application in antidepressant drug aggregation, *Spectrochim. Acta Part A*, **2018**, 199, 376-386.

Amit Kumar, Manoj K Banjare, Srishti Sinha, Toshikee Yadav, Reshma Sahu, Manmohan L Satnami, Kallol K Ghosh Imidazolium Based Ionic Liquid as Modulator of Physicochemical Properties of Cationic, Anionic, Nonionic, and Gemini Surfactants *J. Surfactants Deterg.*, **2018**, 21, 355-366.

Sandeep Kumar Vaishnav, Indrapal Karbhal, **Manmohan L Satnami**, Kallol K Ghosh, Spectroscopic studies on in vitro molecular interaction of highly fluorescent carbon dots with different serum albumins, *J. Mol. Liq.*, **2018**, 255, 279-287.

Neha Kandpal, Hitesh K Dewangan, Rekha Nagwanshi, Kallol K Ghosh, **Manmohan L Satnami**, Hydrolytic Dephosphorylation of *p*Nitrophenyl Diphenyl Phosphate by Alkyl Hydroxamate Ions, *J Surfactants Deterg.*, **2018**, *21*, 209-220.

Kumudini Chandraker, Rekha Nagwanshi, SK Jadhav, Kallol K Ghosh, Manmohan L Satnami, Antibacterial properties of amino acid functionalized silver nanoparticles decorated on graphene oxide sheets. *Spectrochim Acta Part A*, *2017*, *181*, 47-54.

Neha Kandpal, Hitesh K Dewangan, Rekha Nagwanshi, Sandeep K Vaishnav, Kallol K Ghosh, **Manmohan L Satnami**, Reactivity of hydroxamate ions in cationic vesicular media for the cleavage of carboxylate esters, *J Surfactants Deterg.*, **2017**, *20*, 331-340.

Hitesh K Dewangan, Rekha Nagwanshi, Kallol K Ghosh, **Manmohan L Satnami**, Kinetic Investigation of Micellar Promoted Pyridine based Oximate and Hydroxamate Catalysis on Phosphotriester Pesticides, *Catal. Lett.*, **2017**, *147*, 602-611

Rahul Sharma, Bhanushree Gupta, Arvind Kumar Sahu, Jyotiranjana Acharya, **Manmohan L Satnami**, Kallol K Ghosh, Synthesis and *in-vitro* reactivation screening of imidazolium aldoximes as reactivators of sarin and VX-inhibited human acetylcholinesterase (*hAChE*), *Chem.-Biol. Interact.*, **2016**, *259*, 85-92.

**Manmohan L Satnami**, Hitesh K Dewangan, Rekha Nagwanshi Hydrolytic Cleavage of Paraoxon by Octanohydroxamate Ion in Cationic Microemulsions, *Int. J. Chem. Kinetics*, **2016**, *48*, 601-608

Hitesh K Dewangan, Rekha Nagwanshi, Kallol K Ghosh, **Manmohan L Satnami**  
Kinetic Investigation of Micellar Promoted Pyridine based Oximate and Hydroxamate Catalysis on Phosphotriester Pesticides, *Catal. Lett.*, **2016**, DOI: 10.1007/s10562-016-1912-5

Kumudini Chandraker, Sandeep Kumar Vaishnav, Rekha Nagwanshi, **Manmohan L Satnami** Radical scavenging efficacy of thiol capped silver nanoparticles *J. Chem. Sci.*, **2015**, *127*, 2183-2191.

**Satnami, M. L.**, Chandraker K., Vaishnav, S. K., Nagwanshi, R., Ghosh, K.K, Interaction of Thiolated Amino acids and Peptide on to the Gold Nanoparticle Surface: Radical Scavenging Activity. *J. Indian Chem. Soc.*, **2015**, *54A*, 1206-1214.

N Kandpal, HK Dewangan, **ML Satnami**, Nucleophilicity of Aromatic and Aliphatic Hydroxamate Ions towards C=O and P=O Center in Cationic Micellar Media. *J. Indian Chem. Soc.*, **2015**, *93*, 1-8.

**ML Satnami**, SK Vaishnav, R Nagwanshi, KK Ghosh, Spectrofluorometric determination of mercury and lead by colloidal CdS Nanomaterial, *J. Dis. Sci. Technology.*, **2015**, *37*, 196-204.

**ML Satnami**, H Dewangan, I Karbhal O-Nucleophilicity of Hydroxamate Ions for Cleavage of Carboxylate and Phosphate Esters in Cationic Micelles *Int. J. Chem. Kinetics.* **2014**, *46*, 419-432.

H Dewangan, **ML Satnami**, Kinetics studies of hydroxamate and Functionalized oximate ions for hydrolysis of organophosphorus compounds *Toxicol. Letters*, **2014**, S 229, S115.

### **Mr. Indrapal Karbhal**

Trupti C. Nirmale, **Indrapal Karbhal**, Ramchandra S. Kalubarme, Manjusha V. Shelke, Anjani J. Varma and Bharat B. Kale, Facile Synthesis of Unique Cellulose Triacetate Based Flexible and High Performance Gel Polymer Electrolyte for Lithium Ion Batteries, *ACS Applied Material Interfaces*, DOI: 10.1021/acsami.7b07020

Purna K. Boruah, Bhagyasmeeta Sharma, **Indrapal Karbhal**, Manjusha V. Shelke, and Manash R. Das, Ammonia-modified graphene sheets decorated with magnetic Fe<sub>3</sub>O<sub>4</sub> nanoparticles for the photocatalytic and photo-Fenton degradation of phenolic compounds under sunlight irradiation, *Journal of Hazardous Materials*, **2017**, *325*, 90-100

Majumder, Mandira, Ram Bilash Choudhary, Anukul K. Thakur, **Indrapal Karbhal**, Impact of rare-earth metal oxide (Eu<sub>2</sub>O<sub>3</sub>) on the electrochemical properties of a polypyrrole/CuO polymeric composite for supercapacitor applications, *RSC Advances*, **2017**, *7*, 20037-20048

Anukul K. Thakur, , Ashvini B. Deshmukh, Ram Bilash Choudhary, **Indrapal Karbhal**, Mandira Majumder, and Manjusha V. Shelke, Facile synthesis and electrochemical evaluation of PANI/CNT/MoS<sub>2</sub> ternary composite as an electrode material for high performance supercapacitor, *Materials Science and Engineering: B* , **2017**, *223* 24-34

**Indrapal Karbhal**, Rami Reddy Devarapalli, Joyashish Debgupta, Vijayamohan K. Pillai, Pulickel M. Ajayan, and Manjusha V. Shelke, *Chemistry–A European Journal*, **2016**, *22*, 7134-7140

Purna K. Boruah, Priyakshree Borthakur, Gitashree Darabdhara, Chaitanya K. Kamaja, **Indrapal Karbhal**, Manjusha V. Shelke, Pallabi Phukan, Dulen Saikia, and Manash R. Das, Sunlight assisted degradation of dye molecules and reduction of toxic Cr (vi) in aqueous medium using magnetically recoverable Fe<sub>3</sub>O<sub>4</sub>/reduced graphene oxide nanocomposite, *RSC Advances* **2016**, *6*, 11049-11063 (IF:3.13)

Manmohan Lal Satnami, , Sunita Dhritlahre, Rekha Nagwanshi, **Indrapal Karbhal**, Kallol K. Ghosh, and Faruk Nome, Nucleophilic Attach of Salicylhydroxamate Ion at C=O and P=O Centers in Cationic Micellar Media, *Journal of Physical Chemistry B*, **2010**, *114*, 16759-16765.