

**Prof. Kallol Kumar Ghosh**

B. Gupta, R. Sharma, J. R. Acharya, M. P. Kaushik, <b>Kallol K. Ghosh</b> . Interactions Between Xylene-Linked Carbamoyl Bis-Pyridinium Mono Oximes and Organophosphates Inhibited-Ache: A Kinetic Study, <i>Toxicology</i> , 2014, 316, 1–8.
B. Gupta, R. Sharma, N. Singh, K. Kuca, J. R. Acharya, <b>Kallol K. Ghosh</b> , In-Vitro Reactivation Kinetics Of Paraoxon and DFP Inhibited Electric Eel Ache Using Mono- And Bis-Pyridinium Oximes, <i>Archives Of Toxicology</i> , 2014, 80, 381-390.
B. Kumar, D. Tikariha, <b>Kallol K. Ghosh</b> , Reactivity of N-benzoyl-N phenylhydroxylaminein Cationic Micellar Media for the Cleavage of Carboxylate and Phosphate Esters, <i>J. MOL. LIQUIDS</i> , 2014, 193, 243-248
J. Lakra, D. Tikariha, T. Yadav, S. Ghosh, M. L. Satnami, <b>K. K. Ghosh</b> , Mixed Micellization Of Gemini & Cationic Surfactants: Physico-Chemical Properties & Solubilization Of Polycyclic Aromatic Hydrocarbons, <i>COLLOIDS SURF. A: PHYSICOCHEM ENG. ASPECTS</i> , 2014, 451, 56-65.
B. Kumar, D. Tikariha, M. L. Satnami, N. Barbero, P. Quagliotto, <b>K. K. Ghosh</b> , Catalytic Hydrolysis Of Phosphodiester By Nucleophilic Ions In Gemini Micellar Media, <i>J. PHYS. ORG. CHEM</i> , 2014, 27, 613-621.
D. Tikariha, J. Lakra, S. D. Roy, T. Yadav, <b>K. K. Ghosh</b> , Physicochemical and Self-Assembling Properties Of Some Gemini Surfactants, <i>J. Ravishankar University, Raipur-Part-B</i> , 2014, 27, 32-40.
B. Gupta, N. Singh, R. Sharma, B. Foretic', K. Musilek, K. Kuca, J. Acharya, M.L. Satnami, K. K. Ghosh, Assessment Of Antidotal Efficacy Of Cholinesterase Reactivators Against Paraoxon: In Vitro Reactivation Kinetics And Physicochemical Properties, <i>Bioorg. Med. Chem. Lett.</i> , 2014, 24, 4743-4748
T. Yadav, D. Tikariha, J. Lakra, A. K. Tiwari, S.K. Saha, <b>Kallol K Ghosh</b> , Surface Properties Of Amphiphilic Drugs In Presence Of Cationic Surfactants, <i>J. Surf. Sci. Technol.</i> , 2014, 30, 93-110.
R. Sharma, B. Gupta, N. Singh, J. R. Acharya, Kamil Musilek, Kamil Kuca, <b>K. K. Ghosh</b> , Development And Structural Modification Of Cholinesterase Reactivators Against Chemical Warfare Agents In Last Decade: A Review, <i>MiniRev.Med. Chem.</i> 2015, 15, 58-72. (REVIEW ARTICLE)
N. Singh, Y. Karpichev, R. Sharma, B Gupta, A. K. Sahu, M. L. Satnami, <b>K. K. Ghosh</b> , From A-Nucleophiles To Functionalized Aggregates: Exploring The Reactivity Of Hydroxamate Ion Towards Esterolytic Reactions In Micelles, <i>Org. Biomol. Chem.</i> , 2015, 13, 2827-2848, (Review Article)
A. K. Sahu, B. Gupta, R. Sharma, Y. Singh, K. Musilek, K. Kuca, <b>K. K. Ghosh</b> Kinetic And

Physicochemical Analysis Of Structurally Different Bis-Pyridinium Oximes Against Pesticides Inhibited Ache. <i>Ind. J. Chem. Sec A</i> , 2015,54a, 40-45.
T. Yadav, D.Tikariha, J. Lakra, M.L. Satnami, A.K.Tiwari , S. K. Saha, <b>K.K Ghosh</b> , Solubilization Of Polycyclic Aromatic Hydrocarbons In Structurally Different Gemini And Monomeric Surfactants: A Comparative Study, <i>J. Mol. Liq.</i> ,2015, 204, 216-221
S. K. Verma, <b>K. K. Ghosh</b> , R. Verma, W. Xiang, N. Li, X. Zhao, Surface, Conformational And Catalytic Activity Approach Of A- Chymotrypsin And Trypsin In Micellar Media, <i>Colloids Surf. A:Physicochem Eng.Aspects</i> , 2015, 470, 188-193
S. Sinha, D. Tikariha, J. Lakra, A. K. Tiwari, S.K. Saha, <b>K. K. Ghosh</b> , Effect Of Polar Organic Solvents On Self-Aggregation Of Some Cationic Monomeric And Dimeric Surfactants <i>J. Surf. Deterg.</i> 2015, 18, 629-640.
N. Singh, Y.Karpichev, A. K.Tiwari, K. Kuca, <b>K. K. Ghosh</b> , Oxime Functionality In Surfactant Self-Assembly: An Overview On Combating Toxicity Of Organophosphates, <i>J. Mol. Liq.</i> ,2015,208, 237-252
M. L. Satnami, S. K. Vaishnav, R. Nagwanshi, <b>K. K. Ghosh</b> , Cds Quantum Dots: Aqueous Synthesis, Spectroscopic And Microscopic Investigation. <i>JIndian Chem.Soc.</i> 2015,92 (9),1427-1435.
T. Yadav, D. Tikariha, J. Lakra, <b>K. K. Ghosh</b> , Investigation On The Solubilization Of Toxic Polycyclic Aromatic Hydrocarbons In The Presence Of Gemini Surfactants <i>Toxicol. Lett.</i> ,2015,238 (2), S99.
S. Sinha, D. Tikariha, <b>K. K. Ghosh</b> , Fluorescence Spectroscopic Studies On The Interactions Of Bovine Serum Albumin With Gemini And Single-Chain Cationic Surfactants, <i>Toxicol.Lett.</i> ,2015, 238 (2), S307
S. K. Vaishnav, J. Korram, R. Nagwanshi, <b>K. K. Ghosh</b> , M.L.Satnami, Adsorption Kinetics And Binding Studies Of Protein Quantum Dots Interaction: A Spectroscopic Approach, <i>J. Fluoresc.</i> ,2016, 1-11.
M. L. Satnami, S. K. Vaishnav, R. Nagwanshi, <b>K. K.Ghosh</b> , Spectrofluorometric Determination Of Mercury And Lead By Colloidal Cds Nanomaterial, <i>J. Dispersion. Sci.Tech.</i> ,2016, 37 (2), 196-204
S. K. Verma, <b>K. K. Ghosh</b> , R. Verma, S. Verma, X. Zhao, Activity Of A Chymotrypsin In Cationic And Nonionic Micellar Media: Ultraviolet And Fluorescence Spectroscopic Approach, <i>Inte. J. Chemi.Kinet.</i> ,2016, 48 (2), 79-87.
J. Hroudová, N.Singh, Z. Fisar, <b>K. K. Ghosh</b> , In Drug Development For Alzheimer's Disease: An Overview In Relation To Mitochondrial Energy Metabolism, <i>Euro. J. Medi.Chem.</i> , 2016, 121,774-784
S. Sinha, D.Tikariha, J. Lakra,T. Yadav, S. Kumari, S. K. Saha, <b>K. K. Ghosh</b> , Interaction Of Bovine Serum Albumin With Cationic Monomeric And Dimeric Surfactants: A Comparative Study. <i>J.</i>

<i>Mol.Liq.</i> ,2016,218,421-428.
S.K.Vaishnav, K.Chandraker, J. Korram, R Nagwanshi, <b>K. K. Ghosh</b> , M. L.Satnami, Protein Nanoparticle Interaction: A Spectrophotometric Approach For Adsorption Kinetics And Binding Studies <i>J. Mol. Struc.</i> , 2016,1117, 300-310.
A. K. Sahu, R.Sharma, B. Gupta, K. Musilek, K. Kuca, J. Acharya, <b>K. K. Ghosh</b> , Oxime-Mediated In Vitro Reactivation Kinetic Analysis Of Organophosphates-Inhibited Human And Electric Eel Acetylcholinesterase <i>Toxicol MechMethods</i> , 2016, 26, 319-326.
R. Sharma, B. Gupta, A. K. Sahu, J. Acharya, M. L.Satnami, <b>K. K. Ghosh</b> , Synthesis And In-Vitro Reactivation Screening Of Imidazolium Aldoximes As Reactivators Of Sarin And Vxinhibited Human Acetylcholinesterase (Hache) <i>Chemico. Biological, Interactions</i> , 2016,259, 85-92.
R. Sharma, B.Gupta, T. Yadav, S. Sinha, A. K. Sahu, Y. Karpichev, N. Gathergood, J. Marek, K. Kuca, <b>K. K. Ghosh</b> , Degradation Of Organophosphate Pesticides Using Pyridinium Based Functional Surfactants, <i>Acs SustainableChem. Eng.</i> , 2016,4, 6962- 6973.
S. K. Vaishnav,J. Korram, P.Pradhan, K. Chandraker, R. Nagwanshi <b>K. K. Ghosh</b> , M. L.Satnami, Green Luminescent CdTe Quantum Dot Based Fluorescence Nano-Sensor for Sensitive Detection of Arsenic (III), <i>J. Fluoresc.</i> 2016, Doi-10.1007/S10895-016-2011-0.
M. L. Satnami, H. K. Dewangan, N. Kandpal, R..Nagwanshi, <b>K. K. Ghosh</b> , Influence of octanohydroxamic acid on the association behavior of cationic surfactants: Hydrolytic cleavage of phosphate ester, <i>J. Mol. Liq.</i> , 2016,221, 805–814
R.Verma, S. Verma, X. Zhao, , S. K. Verma, B. K.Ghritlahre, <b>K. K Ghosh</b> , Influence of Amine-Based Cationic Gemini Surfactants on Catalytic Activity of $\alpha$ - Chymotrypsin, <i>Int. J. Chem. Kinet.</i> 2016, 1–6.
Metallosurfactant Aggregates as Catalysts for the Hydrolytic Cleavage of Carboxylate and Phosphate Esters, <b>K. K Ghosh</b> , B. Gupta, S. Bhattacharya, <i>Current Organocatalysis</i> 2016, 3, 6-23
S. K. Vaishnav, J. Korram, R. Nagwanshi, <b>K. K. Ghosh</b> , M. L.Satnami, Mn <sup>2+</sup> doped-CdTe/ZnS modified fluorescence nanosensor for detectionof glucose, <i>Sens.Actuators BChem.</i> , 2017,245, 196–204
T. Yadav, D.Tikariha, S. Sinha, K. K Ghosh, Biophysical studies on the interactions between antidepressant drugs and bile salts, <i>J. Mol. Liq.</i> 2017, 233, 23–28
S. K. Vaishnav, K. Patel, K. Chandraker, J. Korram, R. Nagwanshi, <b>K. K. Ghosh</b> , M. L. Satnami, Surface plasmon resonance based spectrophotometric determination of medicinally important thiol compounds using unmodified silver nanoparticles, <i>Spectrochim. Acta Mol. Biomol. Spectrosc.</i> 2017,179 155–162
K. Chandraker, R. Nagwanshi, S. K. Jadhav, <b>K. K. Ghosh</b> , M. L. Satnami, Antibacterial properties of amino acid functionalized silver nanoparticles decorated on graphene oxide sheets,

<i>Spectrochim. Acta Mol. Biomol. Spectrosc.</i> 2017, 181, 47–54
H. K. Dewangan, R. Nagwanshi, <b>K. K. Ghosh</b> , M. L. Satnami, Kinetic Investigation Of Micellar Promoted Pyridine Based Oximate And Hydroxamate Catalysis On Phosphotriester Pesticides <i>Catal Lett.</i> , 2017, 147, 602–611
M. K. Banjare, R. Kurrey, T. Yadav, S. Sinha, M. L. Satnami, <b>K. K. Ghosh</b> , 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 <i>J. Mol. Liq.</i> , 2017, 241, 622–632
M. K. Banjare, K. Behera, M. L. Satnami, S. Pandey and <b>K.K Ghosh</b> , Host-Guest Complex Formation Of Ionic Liquid 1-Butyl-3- Methylimidazolium Octylsulphate With A- and B- Cyclodextrins. <i>Chem, Phys. Lett.</i> , 2017, 689, 30–40
N. Kandpal, H. K. Dewangan, R. Nagwanshi, <b>K. K. Ghosh</b> And M. L. Satnami, An investigation of kinetic and physicochemical properties of vesicular surfactants with oximate and hydroxamate ions: Hydrolytic reactions of organophosphorus, <i>J. Mol. Liq.</i> , pesticides 2017, 243, 178–186.
Reshma, S. K. Vaishnav, I. Karbhal, M. L. Satnami And <b>K. K. Ghosh</b> , Spectroscopic studies on in vitro molecular interaction of highly fluorescent carbon dots with different serum albumins <i>J. Mol. Liq.</i> , 2018, 255, 279–287
M. K. Banjare, K. Behera, M. L. Satnami, S. Pandey And <b>K.K Ghosh</b> , <i>Rsc</i> Self-Assembly of Short-Chain Ionic Liquid within Deep Eutectic Solvents <i>Adv.</i> 2018 Accepted Manuscript
A. Kumar, M. K. Banjare, S. Sinha, T. Yadav, Reshma, M. L. Satnami And <b>K. K. Ghosh</b> , An Imidazolium-based Ionic Liquid as Modulator of Physicochemical Properties of Cationic, Anionic, Nonionic and Gemini Surfactants <i>J. Surfactants Deterg.</i> 2018 Accepted Manuscript

### Prof. Manas Kanti Deb

R Kurrey, M Mahilang, <b>MK Deb</b> , J Nirmalkar, K Shrivastava, S Pervez, MK Rai, A direct DRS-FTIR probe for rapid detection and quantification of fluoroquinolone antibiotics in poultry egg-yolk, <i>Food chemistry</i> (© Elsevier), 2019, 270, 459-466
R Kurrey, M Mahilang, <b>MK Deb</b> , K Shrivastava Analytical approach on surface active agents in the environment and challenges, <i>Trends in Environmental Analytical Chemistry</i> (© Elsevier), Volume 21, January 2019, e00061
R Kurrey, <b>MK Deb</b> , K Shrivastava, Surface enhanced infra-red spectroscopy with modified silver nanoparticles (AgNPs) for detection of quaternary ammonium cationic surfactants <i>New Journal of Chemistry</i> 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 Analytical Methods (RSC) 2019,11, 3552-3562
Kamlesh Shrivastava, 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, <b>MK Deb</b> , 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, <b>Manas Kanti Deb</b> , 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, <b>MK Deb</b> , K Shrivastava, 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, <b>MK Deb</b> , A Shrivastava, S Tiwari, PM <sub>2.5</sub> pollution 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, <b>MK Deb</b> , 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, <b>MK Deb</b> , DS Bisht, PM <sub>2.5</sub> pollution 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, <b>M K Deb</b> , S Pervez, Determination of Selenium by Single-Drop Microextraction and Diffuse Reflectance Infrared Spectroscopy, Analytical Letters (Taylor Francis) 50(9), 1483-1496
S Tiwari, <b>MK Deb</b> , 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, <b>MK Deb</b> , 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 . <b>Manas Kanti Deb</b> . Diwan Singh Bisht. Yasmeen 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, <b>Manas Kanti Deb*</b> , 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, <b>Manas K. Deb</b> , and Suresh Kumar Reddy Boreddy, Dicarboxylic acids, ω-oxocarboxylic acids, α-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, <b>Manas Kanti Deb*</b> , 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, <b>Manas Kanti Deb*</b> , 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, <b>Manas Kanti Deb*</b> , 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*, <b>Manas K. Deb</b> , and Suresh Kumar Reddy Boreddy, Sources and formation processes of water-soluble dicarboxylic acids, ω-oxocarboxylic acids, α-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, <b>Manas K Deb</b> , 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, <b>Manas K Deb</b> , 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, <b>Manas Kanti Deb*</b> , 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, <i>Atmos. Poll. Res.</i> March 2016, (2), 278–287 IF: 1.371
Bhupendra K. Sen, Swapnil Tiwari, <b>Manas Kanti Deb*</b> , Shamsheer Pervez) Nanogram level quantification of molybdenum(VI) by novel hyphenated SDME/DRS-FTIR in human biological fluid ( <i>Anal. Methods</i> , ©Royal Society of Chemistry, 2015, 7, 9474-9481 IF 1.821
Jolly Pal, <b>Manas K Deb*</b> Microwave-assisted synthesis of palladium nanoparticles and its catalytic degradation of organic dyes in aqueous solution, <i>Journal of Water Chemistry and Technology</i> , © Springer (Accepted), 2015; MS # 1124
Jayant Nirmalkar, <b>M.K. Deb*</b> , Y.I. Tsai, D.K. Deshmukh, Arabitol and mannitol as tracers for fungal contribution to size-differentiated particulate matter of rural atmospheric aerosols, <i>Intern. J Environ. Sci. Dev.</i> , © IACSIT Press, 6(6), June 2015, 460-463
Jayant Nirmalkar, <b>Manas K. Deb*</b> Impact of intense field burning episode on aerosol mass loading and its possible health implications in rural area of eastern central India, <i>Air Qual. Atmos. Health</i> , © Springer, DOI 10.1007/s11869-015-0330-y, Feb 2015: IF 1.801
Jayant Nirmalkar, <b>Manas K Deb*</b> , 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 <i>Atmospheric Environment</i> , © Elsevier, 2015, 117, 41-50, IF 3.281
S Sharma, <b>M.K. Deb</b> , Catalytic diazotization using silver and gold nanoparticles and spectrophotometric determination of parathion residues in fruit and soil, <i>J. Indian Chem. Soc.</i> , © 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, <i>Res. Chem. Intermediates</i> , © Springer, MSiD RINT-D-14-00577R1. (Accepted- 08 Dec 2014) IF: 1.54
Bhupendra K Sen, Dhananjay K Deshmukh*, <b>Manas K Deb</b> , Devsharan Verma, Jolly Pal Removal of phenolic compounds from aqueous phase by adsorption onto polymer supported iron nanoparticles, <i>Bulletin of Environ. Cont. Toxic.</i> , © Springer, MS BECT7058.R1 (Accepted), 2014, IF: 1.26
Jayant Nirmalkar, <b>Manas Kanti Deb</b> , Dhananjay Deshmukh, Y.I. Tsai*, Santosh Kumar Verma, Molecular markers in ambient aerosol in the Mahanadi Riverside Basin of eastern central India during winter, <i>Environmental Science and Pollution Research</i> © Springer, 22 (2015), 1220-1231, IF 2.83

## Prof. Shamsh Pervez

Sahu RK, <b>Pervez S</b> , 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 (accepted)
<b>Pervez S</b> , 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, Shrivas K, <b>Pervez S</b> , 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, <b>Pervez S</b> . 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, <b>Pervez S</b> , 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. 2018Jun 15;627:1137-45.
Sahu RK, <b>Pervez S</b> , 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, <b>Pervez S</b> , 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, <b>Pervez S</b> , 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.
<b>Pervez S</b> , 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, <b>Pervez S</b> , 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, <b>Pervez S</b> , 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, <b>Shamsh Pervez</b> , 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, <b>Pervez S</b> . Determination of Selenium by Single-Drop Microextraction and Diffuse Reflectance Infrared Spectroscopy. <i>Analytical Letters</i> . 2017 Jun 13;50(9):1483-96.
Sameer Patel, Jiayu Li, Apoorva Pandey, <b>Shamsh Pervez</b> , 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, <i>Environmental Research</i> . 2017 152: 59-65.
PSP Rao, Suresh Tiwari, JL Matwale, <b>S Pervez</b> , 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, <i>Atmospheric Environment</i> , 146:90-99.
Apoorva Pandey, <b>Shamsh Pervez</b> , 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, <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> 182: 296-304.
Shippi Dewangan, <b>Shamsh Pervez</b> , 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, <i>Building and Environment</i> , 106: 229-236.
Bhupendra K Sen, Swapnil Tiwari, Manas K Deb, <b>Shamsh Pervez</b> , 2016, Determination of Selenium by Single–Drop Microextraction and Diffuse Reflectance Infrared Spectroscopy, <i>Analytical Letters</i> , DOI: 10.1080/00032719.2016.1229786.
Tajamul Hussain, Omar S Al-Attas, Salman A Alrokayan, Mukhtar Ahmed, Nasser M Al-Daghri, Salman Al-Ameri, <b>Shamsh Pervez</b> , ShippiDewangan, Arif Mohammed, Dikshit Gambhir, Terrance S Sumague, 2016, Deleterious effects of incense smoke exposure on kidney function and architecture in male albino rats, <i>Inhalation Toxicology</i> , 28(8):364-373
ShahinaBano, <b>Shamsh Pervez</b> , 2015. Source apportionment and health effect studies associated with indoor fine particulates during last decade in South Asia: A review. <i>Journal of Ravishankar University – Part-B (Science)</i> , Raipur, India (Paper accepted).
James Mathew, <b>Shamsh Pervez</b> , 2015. Investigation of Dominating Routes of Personal Particulates among Welders in a Mixed Urban Industrial Environment, <i>Journal of Ravishankar University – Part-B (Science)</i> , 28 (2): 1-7
<b>Shamsh Pervez</b> , 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 (Elsevier),doi:10.1016/j.apr.2015.09.002	(Diwali),	Atmospheric	Pollution	Research
Jeevan Lal Matawle, <b>Shamsh Pervez</b> , 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, <b>Shamsh Pervez</b> , 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, <b>Shamsh Pervez</b> , 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, <b>S Pervez</b> , 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, <b>Shamsh Pervez</b> , 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.				
<b>Shamsh Pervez</b> , 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, <b>Manish Kumar Rai</b> , Analytical studies for the determination of dicofol pesticide with p-nitroaniline reagent. prashant mundeja,kalpna wani, International Journal of researc in chemistry and environment, <b>2018</b> ,8,26-30
Deepak kumar sahu, <b>Manish Kumar Rai</b> , A selective spectrophotometric determination of metsulfuron methyl with 4-amino azobenzene in various environmental samples. prashant mundeja, Journal of applicable chemistry, <b>2017</b> ,6,1130-1138
KalpnaWani, prashant mundeja,Mamta Nirmal,vindhiya patel, Raisa Khatoon,ajay kumar sahu,Deepak kumar sahu, <b>Manish Kumar Rai</b> , A rapid & accurate non Extractive procedure for analysing Monocrotophos in environmental samples by spectrophotometry, Journal of Ravishankar University, <b>2017</b> , 30(1&2), 66-73.
MamtaNirmal, prashant mundeja , KalpnaWani , vindhiya patel , RaisaKhatoon, ajay kumar sahu,Deepak kumar sahu, <b>Manish Kumar Rai</b> Assessment of Fenvalerate in water, soil and

vegetable samples, Journal of Ravishankar University, <b>2017</b> , 30(1&2), 60-65.
RaisaKhatoon , prashant mundeja , MamtaNirmal, vindhiya patel, KalpanaWani , ajay kumar sahu,Deepak kumar sahu, <b>Manish Kumar Rai</b> Development of Single-residue method to validate detection of Alphacypermethrin, Journal of Ravishankar University, <b>2017</b> , 30(1&2), 53-59.
KalpanaWani, MamtaNirmal, RaisaKhatoon, <b>Manish Kumar Rai</b> , 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 , <b>2017</b>
MamtaNirmal, RaisaKhatoon, <b>Manish Kumar Rai</b> , Sensitive spectrophotometric determination of deltamethrin using leuco malachite green in environmental samples, Asian Journal of Chemistry, vol-28 , No. 4, <b>2016</b>

### Dr. Kamlesh K. Shrivastava

<b>K. Shrivastava*</b> , 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, <i>Microchemical Journal</i> , 2019, 150, 104156 (Impact Factor:3.206)
<b>K. Shrivastava*</b> , 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).
<b>K. Shrivastava</b> , 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, <i>Spectrochimica Acta Part A</i> , 2019, 213, 127–133 (IF:2.880).
S. Yadav, <b>K. Shrivastava</b> , 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, <i>Journal of Alloys and Compounds</i> , 2019, 772, 579–592 (IF-3.779).
<b>K. Shrivastava</b> , 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, <i>Journal of Molecular Liquids</i> , 2019, 275, 297–303 (IF-4.513)
<b>K. Shrivastava*</b> , 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)
<b>K. Shrivastava*</b> , 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. Shrivastava\***, 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. Shrivastava\***, 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. Shrivastava\***, 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. Shrivastava\***, 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. Shrivastava**, 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. Shrivastava\***, 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. Shrivastava\***, 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. Shrivastava\***, 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. **0.84**

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.

**1.479**

<p>Kamlesh Shrivastava, Sushama Sahu, Bhuneshwari Sahu, Ramsingh Kurrey, Tarun Kumar Patle, Tushar Kant, Indrapal Karbhal, <b>Manmohan L Satnami</b>, Manas Silver nanoparticles for selective detection of phosphorus pesticide containing <math>\pi</math>-conjugated pyrimidine nitrogen and sulfur moieties through non-covalent interactions <i>J. Mol. Liq.</i>, <b>2019</b>, 275, 297-303.</p>
<p>Bhumika Yadu, Vibhuti Chandrakar, Jyoti Korram, <b>Manmohan L Satnami</b>, Meetul Kumar, S Keshavkant, Silver nanoparticle modulates gene expressions, glyoxalase system and oxidative stress markers in fluoride stressed <i>Cajanus cajan</i> L. <i>J. Hazard. Mater.</i>, <b>2018</b>, 353, 44-52.</p>
<p>Manoj Kumar Banjare, Kamalakanta Behera, Ramsingh Kurrey, Ramesh Kumar Banjare, <b>Manmohan L Satnami</b>, 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, <i>Spectrochim. Acta Part A</i>, <b>2018</b>, 199, 376-386. <b>2.931</b></p>
<p>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 <i>J Surfactants Deterg.</i>, <b>2018</b>, 21, 355-366. <b>1.672</b></p>
<p>Sandeep Kumar Vaishnav, Indrapal Karbhal, <b>Manmohan L Satnami</b>, Kallol K Ghosh, Spectroscopic studies on in vitro molecular interaction of highly fluorescent carbon dots with different serum albumins, <i>J. Mol. Liq.</i>, <b>2018</b>, 255, 279-287. <b>4.561</b></p>
<p>Neha Kandpal, Hitesh K Dewangan, Rekha Nagwanshi, Kallol K Ghosh, <b>Manmohan L Satnami</b>, Hydrolytic Dephosphorylation of <i>p</i>-Nitrophenyl Diphenyl Phosphate by Alkyl Hydroxamate Ions, <i>J Surfactants Deterg.</i>, <b>2018</b>, 21, 209-220. <b>1.672</b></p>
<p>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. <i>Spectrochim Acta Part A</i>, 2017, 181, 47-54.</p>
<p>Neha Kandpal, Hitesh K Dewangan, Rekha Nagwanshi, Sandeep K Vaishnav, Kallol K Ghosh, <b>Manmohan L Satnami</b>, Reactivity of hydroxamate ions in cationic vesicular media for the cleavage of carboxylate esters, <i>J Surfactants Deterg.</i>, <b>2017</b>, 20, 331-340.</p>
<p>Hitesh K Dewangan, Rekha Nagwanshi, Kallol K Ghosh, <b>Manmohan L Satnami</b>, Kinetic Investigation of Micellar Promoted Pyridine based Oximate and Hydroxamate Catalysis on Phosphotriester Pesticides, <i>Catal. Lett.</i>, <b>2017</b>, 147, 602-611</p>
<p>Rahul Sharma, Bhanushree Gupta, Arvind Kumar Sahu, Jyotiranjana Acharya, <b>Manmohan L Satnami</b>, Kallol K Ghosh, Synthesis and <i>in-vitro</i> reactivation screening of imidazolium aldoximes as reactivators of sarin and VX-inhibited human acetylcholinesterase (<i>hAChE</i>),</p>

*Chem.-Biol. Interact.*, **2016**, 259, 85-92. **3.407**

**Manmohan L Satnami**, Hitesh K Dewangan, Rekha Nagwanshi Hydrolytic Cleavage of Paraoxon by Octanohydroxamate Ion in CationicMicroemulsions, *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 andHydroxamate Catalysts on Phosphotriester Pesticides, *Catal. Lett.*, **2016**, DOI: 10.1007/s10562-016-1912-5

Kumudini Chandraker, Sandeep Kumar Vaishanav, 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.,Vaishanav, S. K., Nagwanshi, R., Ghosh,K.K, Interaction of ThiolatedAminoacids 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 Vaishanav, R Nagwanshi, KK Ghosh, Spectrofluorometric determination ofmercury and lead by colloidal CdSNanomaterial, *J. Dis. Sci. Technology.*, **2015**, 37, 196-204.

**ML Satnami**, H Dewangan, I Karbhal O-Nucleophilicity of Hydroxamate Ions for Cleavage of Carboxylate and PhosphateEsters 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 (IF:7.2)

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 (IF=6.06)

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 (IF:3.10)

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 (IF:2.55)

**Indrapal Karbhal**, Rami Reddy Devarapalli, Joyashish Debgupta, Vijayamohanan K. Pillai, Pulickel M. Ajayan, and Manjusha V. Shelke, *Chemistry–A European Journal*, **2016**, 22,7134-7140 (IF:5.31)

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, IF (3.17)