

List of Publications during Last Five Years

| Title of paper | Name of the author/s | Department of the teacher | Impact Factor | Name of journal | Year of publication | ISSN number | Link to the recognition in UGC enlistment of the Journal /Digital Object Identifier (doi) number |
|---|--|--------------------------------|---------------|---------------------------------|---------------------|-------------|---|
| 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 | School of Studies in Chemistry | 6.16 | J. Mol. Liq. | 2016 | 18733166 | https://doi.org/10.1016/j.carbon.2020.09.053 |
| 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, | School of Studies in Chemistry | 6.16 | J. Mol. Struc. | 2016 | 0022-2860 | https://doi.org/10.1016/j.molstruc.2016.03.087 |
| 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 | School of Studies in Chemistry | 2.98 | Toxicol. Mech. | 2016 | 1537-6516 | https://doi.org/10.3109/15376516.2016.1143070 |
| 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 | School of Studies in Chemistry | 1.23 | Chemico-Biological Interactions | 2016 | 1537-6516 | https://doi.org/10.1016/j.cbi.2016.04.034 |
| 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 | School of Studies in Chemistry | 8.19 | ACS Sustainable Chem. Eng. | 2016 | 0009-2797 | https://doi.org/10.1021/acssuschemeng.6b01878 |
| Green Luminescent CdTe Quantum Dot Based Fluorescence Nano-Sensor for | S. K. Vaishanav, J. Korram, P. | School of Studies in | 2.21 | J. Fluoresc. | 2017 | 2168-0485 | https://doi.org/10.1007/s10895-016-2011-0 |

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| Sensitive Detection of Arsenic (III) | Pradhan, K. Chandraker, R. Nagwanshi, K. K. Ghosh, M. L. Satnami | Chemistry | | | | | |
| 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 | School of Studies in Chemistry | 6.16 | J. Mol. Liq. | 2016 | 1053-0509 | https://doi.org/10.1016/j.molliq.2016.06.052 |
| Influence of Amine-Based Cationic Gemini Surfactants on Catalytic Activity of α -Chymotrypsin | S. K. Verma, B. K. Ghritlahre, K. K. Ghosh, R. Verma, S. Verma, X. Zhao | School of Studies in Chemistry | 2.23 | Int. J. Chem. | 2016 | 0167-7322 | https://doi.org/10.1002/kin.21032 |
| Metallosurfactant Aggregates as Catalysts for the Hydrolytic Cleavage of Carboxylate and Phosphate Esters | K. K. Ghosh, B. Gupta, S. Bhattacharya | School of Studies in Chemistry | 1.84 | Current Organocatalysis | 2016 | 1097-4601 | 10.2174/2213337202666150713174927 |
| Mn ²⁺ doped-CdTe/ZnS modified fluorescence nanosensor for detection of glucose | S. K. Vaishnav, J. Korram, R. Nagwanshi, K. K. Ghosh, M. L. Satnami | School of Studies in Chemistry | 7.33 | Sens. Actuators B Chem. | 2017 | 22133372, 22133380 | https://doi.org/10.1016/j.snb.2017.01.118 |
| Biophysical studies on the interactions between antidepressant drugs and bile salts | T. Yadav, D. Tikariha, S. Sinha, K. K. Ghosh | School of Studies in Chemistry | 6.16 | J. Mol. Liq. | 2017 | 0009-2614 | https://doi.org/10.1016/j.molliq.2017.02.102 |
| Surface plasmon resonance based spectrophotometric determination of medicinally important thiol compounds using unmodified silver nanoparticles | S. K. Vaishnav, K. Patel, K. Chandraker, J. Korram, R. Nagwanshi, K. K. Ghosh, M. L. Satnami | School of Studies in Chemistry | 4.09 | Spectrochim. Acta Mol. Biomol. Spectrosc. | 2017 | 1677322 | https://doi.org/10.1016/j.saa.2017.02.040 |
| 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 | School of Studies in Chemistry | 4.09 | Spectrochim. Acta Mol. Biomol. Spectrosc. | 2017 | 1386-1425 | https://doi.org/10.1016/j.saa.2017.03.032 |

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| Reactivity of Hydroxamate Ions in Cationic Vesicular Media for the Cleavage of Carboxylate Esters | N. Kandpal, H. K. Dewangan, R. Nagwanshi, S. K. Vaishnav, M. L. Satnami, K. K. Ghosh | School of Studies in Chemistry | 1.90 | J Surfact. Deterg. | 2017 | 1386-1425 | https://doi.org/10.1007/s11743-016-1919-3 |
| Kinetic Investigation of Micellar Promoted Pyridine based Oximate and Hydroxamate Catalysis on Phosphotriester Pesticides | H. K. Dewangan, R. Nagwanshi, M. L. Satnami, K. K. Ghosh | School of Studies in Chemistry | 1.72 | Catal. Lett. | 2017 | 15589293, 10973958 | DOI: 10.1007/s10562-016-1912-5 |
| 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, | School of Studies in Chemistry | 6.16 | J. Mol. Liq. | 2017 | 1011-372X | https://doi.org/10.1016/j.molliq.2017.06.009 |
| 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, K. K. Ghosh | School of Studies in Chemistry | 6.16 | J. Mol. Liq. | 2018 | 1677322 | https://doi.org/10.1016/j.molliq.2018.01.146 |
| 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 | School of Studies in Chemistry | 3.24 | RSC Advances | 2018 | 1677322 | https://doi.org/10.1039/C7RA13557B |
| Self-aggregation of bio-surfactants within ionic liquid 1-ethyl-3-methylimidazolium bromide: a comparative study and potential application in antidepressants drugs aggregation | M. K. Banjare, K. Behera, R. Kurrey, R. K. Banjare, M. L. Satnami, S. Pandey and K. K. Ghosh | School of Studies in Chemistry | 4.99 | Spectrochimica Acta | 2018 | 0191-2917 | https://doi.org/10.1016/j.saa.2018.03.079 |
| An Imidazolium based ionic liquid as modulators of physicochemical properties of cationic, anionic, non-ionic and gemini surfactants | A. Kumar, M. K. Banjare, Reshma, S. Sinha, T. Yadav and K. K Ghosh | School of Studies in Chemistry | 1.90 | J. Surfact. Deterg. | 2018 | 13861425 | https://doi.org/10.1002/jsde.12032 |

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| Host–guest complexation of ionic liquid with α - and β -cyclodextrins: a comparative study by $^1\text{H-NMR}$, $^{13}\text{C-NMR}$ and COSY | M. K. Banjare, K. Behera, M. L. Satnami, S. Pandey and K.K. Ghosh | School of Studies in Chemistry | 3.59 | New J. Chem. | 2018 | 15589293 | https://doi.org/10.1039/C8NJ01840E |
| Gold nanoprobe for inhibition and reactivation of acetylcholinesterase: An application to detection of organophosphorus pesticides | M. L. Satnami, J. Korram, R. Nagwanshi, S. K. Vaishanav, H. K. Dewangan, | School of Studies in Chemistry | 7.33 | Sensors and Actuators B: Chemical | 2018 | 1473-7604 | https://doi.org/10.1016/j.snb.2018.03.181 |
| Hydrolytic dephosphorylation of -nitrophenyldiphenyl phosphate by alkyl hydroxamate ions | N. Kandpal, H. K. Dewangan, R. Nagwanshi, K. K. Ghosh, M. L. Satnami | School of Studies in Chemistry | 1.90 | J. Surfact. Deterg. | 2018 | 9254005 | https://doi.org/10.1002/jsde.12006 |
| Colorimetric Determination of L-Cysteine in Milk Samples with Surface Functionalized Silver Nanoparticles | S. Sahu, S. Sharma, T. Kant, K. Shrivastava, K.K. Ghosh | School of Studies in Chemistry | 4.09 | Spectrochim. Acta | 2021 | 15589293 | https://doi.org/10.1002/jsde.12006 |
| 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, K. K. Ghosh, Y. Karpichev | School of Studies in Chemistry | 6.16 | J. Mol. Liq. | 2020 | 1386-1425 | https://doi.org/10.1016/j.molliq.2020.112857 |
| Exploring Spectroscopic Insights into Molecular Recognition of Potential Anti-Alzheimer's Drugs within the Hydrophobic Pockets of β -Cycloamylose | S. Sharma, M. K. Banjare, N. Singh, J. Korábečný, Z. Fišar, K. Kuča, K. K. Ghosh | School of Studies in Chemistry | 6.16 | J. Mol. Liq. | 2020 | 0167-7322 | https://doi.org/10.1016/j.molliq.2020.113269 |
| Novel Formation of Au/Ag Bimetallic Nanoparticles by a Mixture of Monometallic Nanoparticles and Their Application for Rapid Detection of Lead in Onion Sample | S. Sahu, S. Sharma, K. K. Ghosh | School of Studies in Chemistry | 3.59 | New J. Chem. | 2020 | 0167-7322 | https://doi.org/10.1039/D0NJ02994G |

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| Thermodynamic investigation of the interaction between ionic liquid functionalized gold nanoparticles and human serum albumin for selective determination of glutamine | S. Sahu, Reshma, S. Sharma, I. Karbhal and K. K. Ghosh | School of Studies in Chemistry | 3.24 | RSC Adv. | 2020 | 1144-0546 | https://doi.org/10.1039/D0RA04394J |
| Multi-spectroscopic monitoring of molecular interactions between an amino acid-functionalized ionic liquid and potential anti-Alzheimer's drugs | S. Sharma, M.K. Banjare, N. Singh, J. Kora 'bec`ny', K. Kuc`a and K. K. Ghosh | School of Studies in Chemistry | 3.24 | RSC Adv. | 2020 | 2046-2069 | https://doi.org/10.1039/D0RA06323A |
| Facile and visual detection of acetylcholinesterase inhibitors by carbon quantum dots | Reshma, B. Gupta, R. Sharma, K. K. Ghosh | School of Studies in Chemistry | 3.59 | New J. Chem. | 2019 | 2046-2069 | https://doi.org/10.1039/C9NJ02347J |
| 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 | School of Studies in Chemistry | 4.09 | RSC Adv. | 2018 | 1144-0546 | https://doi.org/10.1039/C7RA13557B |
| 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 | School of Studies in Chemistry | 1.90 | J. Surfactants Deterg. | 2018 | 2046-2069 | https://doi.org/10.1002/jsde.12032 |
| Host-Guest Complexation of Ionic Liquid with α - and β -Cyclodextrins: A Comparative Study by ¹ H-NMR, ¹³ C-NMR and COSY | M. K. Banjare, K. Behera, M. L. Satnami, S. Pandey, K. K. Ghosh | School of Studies in Chemistry | 3.59 | New J. Chem. | 2018 | 15589293 | https://doi.org/10.1039/C8NJ01840E |
| 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 | School of Studies in Chemistry | 6.16 | J. Mol. Liq. | 2017 | 0167-7322 | https://doi.org/10.1016/j.molliq.2017.06.009 |

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| Supra-molecular inclusion complexation of ionic liquid 1-butyl-3-methylimidazolium octylsulphate with α - and β -cyclodextrins | M. K. Banjare, K. Behera, M. L. Satnami, S. Pandey, K. K. Ghosh | School of Studies in Chemistry | 2.32 | Chem. Phys. Lett. | 2017 | 0009-2614 | https://doi.org/10.1016/j.cplett.2017.09.033 |
| Self-assembly of a short-chain ionic liquid within deep eutectic solvents | M. K. Banjare, K. Behera, M. L. Satnami, S. Pandey and K. K. Ghosh | School of Studies in Chemistry | 3.24 | RSC Advances | 2018 | 2046-2069 | https://doi.org/10.1039/C7RA13557B |
| Methyl Orange Paired Microextraction and Diffuse Reflectance-Fourier Transform Infrared Spectral Monitoring for Improved Signal Strength of Total Mixed Cationic Surfactants | R. Kurrey, M. K. Deb, K. Shrivastava | School of Studies in Chemistry | 1.90 | Journal of Surfactant and Detergents | 2017 | 15589293, 10973958 | https://doi.org/10.1002/jsde.12012 |
| A low-cost screen printed glass electrode with silver nano-ink for electrochemical detection of H ₂ O ₂ | A. Ghosale, K. Shrivastava, M. K. Deb, V. Ganesan, I. Karbhal, P.K. Bajpai, R. Shankar | School of Studies in Chemistry | 4.99 | Royal Society of Chemistry | 2018 | 1759-9660 | https://doi.org/10.1039/C8AY00652K |
| Ion-pair single-drop microextraction with ATR-FTIR determination of phosphate in water samples | S. Chandrawanshi, S. K. Verma, M. K. Deb | School of Studies in Chemistry | 1.85 | NISCAIR-CSIR, India | 2016 | 0975-0975 | http://nopr.niscair.res.in/handle/123456789/43628?mode=full |
| A direct DRS-FTIR probe for rapid detection and quantification of fluoroquinolone antibiotics in poultry egg-yolk | R. Kurrey, M. Mahilang, M. K. Deb, J. Nirmalkar, K. Shrivastava, S. Pervez, M. K. Rai, J. Rai | School of Studies in Chemistry | 7.51 | Food Chemistry | 2018 | 0308-8146 | https://doi.org/10.1016/j.foodchem.2018.07.129 |
| Coarse particle (PM _{10-2.5}) source profiles for emissions from domestic cooking and industrial process in Central India | S. Bano, S. Pervez, J. C. Chow, J. Matawle, J. G. Watson, R. K. Sahu, A. Srivastava, S. Tiwari, Y. F. Pervez, M. K. Deb. | School of Studies in Chemistry | 4.56 | Science of The Total Environment | 2018 | 0048-9697 (print) 1879-1026 (web) | https://doi.org/10.1016/j.scitotenv.2018.01.289 |

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| PM2.5 pollution from household solid fuel burning practices in central India: 1. Impact on indoor air quality and associated health risks | J. Matawle, S. Pervez, A. Shrivastava, S. Tiwari, P. Pant, M. K. Deb, D. S. Bisht, Y. F. Pervez. | School of Studies in Chemistry | 4.06 | Environmental Geochemistry and Health | 2016 | 0269-4042 | https://doi.org/10.1007/s10653-016-9871-8 |
| PM2.5 pollution from household solid fuel burning practices in Central India: 2. Application of receptor models for source apportionment | J. L. Matawle, S. Pervez, M. K. Deb, A. Shrivastava, S. Tiwari | School of Studies in Chemistry | 4.06 | Environmental Geochemistry and Health | 2016 | 0269-4042 | https://doi.org/10.1007/s10653-016-9889-y |
| Cloud point extraction and diffuse reflectance-Fourier transform infrared spectroscopic determination of chromium (VI): A probe to adulteration in food stuffs | S. Tiwari, M. K. Deb, B. K. Sen | School of Studies in Chemistry | 7.51 | Food Chemistry | 2019 | 0308-8146 | https://doi.org/10.1016/j.foodchem.2016.10.034 |
| Sources and formation processes of water-soluble dicarboxylic acids, ω -oxocarboxylic acids, α -dicarbonyls, and major ions in summer aerosols from eastern central India | D. K. Deshmukh, K. Kawamura, M. K. Deb, S. K. R. Boreddy | School of Studies in Chemistry | 4.26 | Journal of Geophysical Research: Atmospheres | 2017 | 0148-0227 | https://doi.org/10.1002/2016JD026246 |
| Determination of Selenium by Single-Drop Microextraction and Diffuse Reflectance Analytical Letters Infrared Spectroscopy | B. K. Sen, S. Tiwari, M. K. Deb, S. Pervez | School of Studies in Chemistry | 2.32 | Analytical Letters | 2017 | 0003-2719 | https://doi.org/10.1080/00032719.2016.1229786 |
| Fourier transform infrared spectroscopy combined with single-drop micro-extraction for quantitative analysis of tungstate in biological samples. | B. K. Sen, S. Tiwari, M. K. Deb | School of Studies in Chemistry | 2.50 | Vibrational Spectroscopy | 2017 | 0924-2031 | https://doi.org/10.1016/j.vibspec.2016.12.010 |
| Methyl Orange Paired Microextraction and Diffuse Reflectance-Fourier Transform Infrared Spectral Monitoring for Improved Signal Strength of Total Mixed Cationic Surfactants | R. Kurrey, M. K. Deb, K. Shrivastava | School of Studies in Chemistry | 1.90 | Journal of Surfactants and Detergent | 2018 | 15589293, 10973958 | https://doi.org/10.1002/jsde.12012 |

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| A direct DRS-FTIR probe for rapid detection and quantification of fluoroquinolone antibiotics in poultry egg-yolk | R. Kurrey, M. Mahilang, M. K. Deb, J. Nirmalkar, K. Shrivastava, S. Pervez, M. K. Rai, J. Rai | School of Studies in Chemistry | 7.51 | Food Chemistry | 2019 | 0308-8146 | https://doi.org/10.1016/j.foodchem.2018.07.129 |
| Ion-pair single-drop microextraction with ATR-FTIR determination of phosphate in water samples | S. Chandrawanshi, S. K. Verma, M. K. Deb | School of Studies in Chemistry | 1.02 | Indian Journal of Chemistry – Section A | 2018 | 0975-0983 | http://nopr.niscair.res.in/handle/123456789/43628 |
| Collective Ion-Pair Single Drop Microextraction Attenuated Total Reflectance Fourier Transform Infrared Spectroscopic Determination of Perchlorate in Bioenvironmental Samples | S. Chandrawanshi, S. K. Verma, M. K. Deb | School of Studies in Chemistry | 0.98 | Journal of AOAC | 2018 | 0004-5756 | https://doi.org/10.5740/jaoacint.17-0188 |
| Sucrose capped gold nanoparticles as a plasmonic chemical sensor based on non-covalent interactions: Application for selective detection of vitamins B ₁ and B ₆ in brown and white rice food samples, | K. Shrivastava, M. K. Deb | School of Studies in Chemistry | 7.51 | Food Chemistry | 2018 | 0308-8146 | https://doi.org/10.1016/j.foodchem.2018.01.002 |
| Coarse particle (PM _{10-2.5}) source profiles for emissions from domestic cooking and industrial process in Central India. | S. Bano, S. Pervez, J. C. Chow, J. L. Matawle, J. G. Watson, R. K. Sahu, A. Srivastava, S. Tiwari, Y. F. Pervez, M. K. Deb | School of Studies in Chemistry | 7.91 | Science of the Total Environment | 2018 | 0048-9697 (print) 1879-1026 (web) | https://doi.org/10.1016/j.scitotenv.2018.01.289 |
| Domestic use of cooking fuel in India: A review on emission characteristics and associated health concerns | M. Verma, S. Pervez, M. K. Deb, D. Majumdar | School of Studies in Chemistry | 0.53 | Asian Journal of Chemistry | 2018 | 9707077 | https://sci-hub.hkvisa.net/10.14233/aichem.2018.21006 |
| Influence of fireworks emission on aerosol aging process at lower troposphere and associated health risks in an urban region of eastern central India | M. Mahilang, M. K. Deb, J. Nirmalkar, S. Pervez | School of Studies in Chemistry | 4.35 | Atmos. Pollut. Res. | 2020 | 13091042 | https://doi.org/10.1016/j.apr.2020.04.009 |

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| A KBr-impregnated paper substrate as a simple probe for the enhanced ATR-FTIR signal strength of anionic and non-ionic surfactants in an aqueous medium | R. Kurrey, M. K. Deb, K. Shrivastava, J. Nirmalkar, B. K. Sen, M. Mahilang, V.K. Jain | School of Studies in Chemistry | 3.24 | RSC Advances | 2020 | 2046-2069 | https://doi.org/10.1039/D0RA07286A |
| Biogenic secondary organic aerosols: A review on formation mechanism, analytical challenges and environmental impacts | M. Mahilang, M.K. Deb, S. Pervez | School of Studies in Chemistry | 7.08 | Chemosphere | 2020 | 456535 | https://doi.org/10.1016/j.chemosphere.2020.127771 |
| Seasonal variation and health implications of long-range transported and provincial size distributed aerosols at eastern central India | M. Mahilang, M.K. Deb | School of Studies in Chemistry | 1.08 | J. Indian Chem. Soc. | 2020 | 0019-4522 | - |
| Citrate-capped gold nanoparticles as a sensing probe for determination of cetyltrimethylammonium surfactant using FTIR spectroscopy and colorimetry | R. Kurrey, M. K. Deb, K. Shrivastava, B. R. Khalkho, J. Nirmalkar, D. Sinha, S. Jha | School of Studies in Chemistry | 3.28 | Anal. Bioanal. Chem. | 2019 | 1618-2642 | https://doi.org/10.1007/s00216-019-02067-8 |
| A direct DRS-FTIR probe for rapid detection and quantification of fluoroquinolone antibiotics in poultry egg-yolk | R. Kurrey, M. Mahilang, M.K. Deb, J. Nirmalkar, K. Shrivastava, S. Pervez, M. K. Rai, J. Rai | School of Studies in Chemistry | 7.51 | Food Chem. | 2019 | 0308-8146 | https://doi.org/10.1016/j.foodchem.2018.07.129 |
| Modified silver nanoparticles-enhanced single drop microextraction of tartrazine in food samples coupled with diffuse reflectance Fourier transform infrared spectroscopic analysis | S. Tiwari and M.K. Deb | School of Studies in Chemistry | 2.77 | Anal. Methods | 2019 | 1759-9660 | https://doi.org/10.1039/C9AY00713J |
| Analytical approach on surface active agents in the environment and challenges | R. Kurrey, M. Mahilang, M.K. Deb, K. Shrivastava | School of Studies in Chemistry | 9.40 | Trend. Environ. Anal. Chem. | 2019 | 2214-1588 | https://doi.org/10.1016/j.teac.2019.e00061 |
| Surface enhanced infra-red spectroscopy with modified silver nanoparticles (AgNPs) for detection of quaternary ammonium cationic surfactants | R. Kurrey, M. K. Deb, K. Shrivastava | School of Studies in Chemistry | 3.59 | New J. Chem. | 2019 | 1144-0546 | https://doi.org/10.1039/C9NJ01795J |

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| Methyl Orange Paired Microextraction and Diffuse Reflectance Fourier Transform Infrared Spectral Monitoring for Improved Signal Strength of Total Mixed Cationic Surfactants | R. Kurrey, M.K. Deb, K. Shrivastava | School of Studies in Chemistry | 1.90 | J. Surfactants Deterg. | 2018 | 1558-9293 | #VALUE! |
| Simultaneous Determination of Cationic and Anionic Surfactants in Domestic, Sewage and River Effluent by Diffuse Reflectance-Fourier Transform Infrared Spectroscopic Analysis | R. Kurrey, K. Thakur, S. Chandrawanshi, M. K. Deb | School of Studies in Chemistry | 0 | J. R. U. Part-B | 2017 | 0970-5910 | https://doi.org/10.52228/JRUB.2017-30-1-4 |
| Regional and Transported Aerosols in Ambient Atmosphere of Raipur, India, during Winter | M. K. Deb, M. Mahilang, J. Nirmalkar | School of Studies in Chemistry | 0 | J. R. U. Part-B | 2017 | 0970-5910 | https://doi.org/10.52228/JRUB.2017-30-1-2 |
| Ion-pair single-drop microextraction with ATR-FTIR determination of phosphate in water samples | S. Chandrawanshi, S. K. Verma, M.K. Deb. | School of Studies in Chemistry | 0.49 | Indian Journal of Chemistry - Section A (IJCA) | 2018 | 2393-817X | |
| Mass loading and episodic variation of molecular markers in PM _{2.5} aerosols over a rural area in eastern central India | J. Nirmalkar, D. K. Deshmukh, M. K. Deb, Y. I. Tsai, K. Sopajaree | School of Studies in Chemistry | 4.01 | Atmospheric Environment | 2015 | 1352-2310 | https://doi.org/10.1016/j.atmosenv.2015.07.003 |
| Spatio-temporal measurement of indoor particulate matter concentrations using a wireless network of low-cost sensors in households using solid fuels | S. Patel, J. Li, A. Pandey, S. Pervez, R. K. Chakrabarty, P. Biswas | School of Studies in Chemistry | 6.49 | Environmental Research | 2017 | 0013-9351 | https://doi.org/10.1016/j.envres.2016.10.001 |
| Coarse particle (PM _{10-2.5}) source profiles for emissions from domestic cooking and industrial process in Central India | S. Bano, S. Pervez, J. C. Chow, J. Matawle, J. G. Watson, R. K. Sahu, A. Srivastava, S. Tiwari, Y. F. Pervez, M. K. Deb. | School of Studies in Chemistry | 7.96 | Science of the Total Environment | 2018 | 0048-9697 | https://doi.org/10.1016/j.scitotenv.2018.01.289 |

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|---|--|--------------------------------|------|---------------------------------------|------|-----------|---|
| Aerosol emissions factors from traditional biomass cookstoves in India: insights from field measurements | A. Pandey, S. Patel, S. Pervez, S. Tiwari, G. Yadama, J. C. Chow, J. G. Watson, P. Biswas, R. K. Chakrabarty | School of Studies in Chemistry | 5.41 | Atmospheric Chemistry and Physics | 2017 | 1680-7367 | https://doi.org/10.5194/acp-17-13721-2017 |
| PM2.5 pollution from household solid fuel burning practices in Central India: 2. Application of receptor models for source apportionment | J. L. Matawle, S. Pervez, M. K. Deb, A. Shrivastava, S. Tiwari | School of Studies in Chemistry | 4.06 | Environmental Geochemistry and Health | 2016 | 0269-4042 | DOI 10.1007/s10653-016-9889-y |
| PM2.5 pollution from household solid fuel burning practices in central India: 1. Impact on indoor air quality and associated health risks | J. Matawle, S. Pervez, A. Shrivastava, S. Tiwari, P. Pant, M. K. Deb, D. S. Bisht, Y. F. Pervez. | School of Studies in Chemistry | 4.06 | Environmental Geochemistry and Health | 2016 | 0269-4042 | DOI 10.1007/s10653-016-9871-8 |
| Source Profiles for PM10-2.5 Resuspended Dust and Vehicle Exhaust Emissions in Central India | S. Pervez, S. Bano, J. G. Watson, J. C. Chow, J. L. Matawle, A. Shrivastava, S. Tiwari, Y. F. Pervez | School of Studies in Chemistry | 3.06 | Aerosol and Air Quality Research | 2018 | 16808584 | https://doi.org/10.4209/aaqr.2017.08.0259 |
| Temporal and spatial variations of PM2.5 organic and elemental carbon in Central India | R. K. Sahu, S. Pervez, J. C. Chow, J. G. Watson, S. Tiwari, A. S. Panicker, R. K. Chakrabarty, Y. F. Pervez | School of Studies in Chemistry | 4.60 | Environmental Geochemistry and Health | 2019 | 0269-4042 | DOI: 10.1016/j.foodchem.2018.07.129 |
| A direct DRS-FTIR probe for rapid detection and quantification of fluoroquinolone antibiotics in poultry egg-yolk | R. Kurrey, M. Mahilang, M. K. Deb, J. Nirmalkar, K. Shrivastava, S. Pervez, M. K. Rai, J. Rai | School of Studies in Chemistry | 7.51 | Food Chemistry | 2019 | 0308-8146 | https://doi.org/10.1016/j.foodchem.2018.07.129 |
| Determination of Selenium by Single-Drop Microextraction and Diffuse Reflectance Analytical Letters Infrared Spectroscopy. | B. K. Sen, S. Tiwari, M. K. Deb, S. Pervez | School of Studies in Chemistry | 2.32 | Analytical Letters | 2017 | 0003-2719 | https://doi.org/10.1080/00032719.2016.1229786 |

| | | | | | | | |
|--|--|--------------------------------|------|---|------|-----------|---|
| Spatio-temporal measurement of indoor particulate matter concentrations using a wireless network of low-cost sensors in households using solid fuels | S. Patel, J. Li, A. Pandey, S. Pervez, R. K. Chakrabarty, P. Biswas | School of Studies in Chemistry | 6.49 | Environmental Research | 2016 | 0013-9351 | https://doi.org/10.1016/j.envres.2016.10.001 |
| Aerosol emissions factors from traditional biomass cookstoves in India: insights from field measurements. | A. Pandey, S. Patel, S. Pervez, S. Tiwari, G. Yadama, J. C. Chow, J. G. Watson, P. Biswas, R. K. Chakrabarty | School of Studies in Chemistry | 5.41 | Atmospheric Chemistry and Physics | 2016 | 1680-7367 | https://doi.org/10.1016/j.envres.2016.10.001 |
| Source profiles for PM10-2.5 resuspended dust and vehicle exhaust emissions in central India. | S. Pervez, S. Bano, J. G. Watson, J. C. Chow, J. L. Matawle, A. Shrivastava | School of Studies in Chemistry | 3.06 | Aerosol and Air Quality Research | 2018 | 2071-1409 | https://doi.org/10.4209/aaqr.2017.08.0259 |
| Temporal and spatial variations of PM2.5 organic and elemental carbon in Central India | R. K. Sahu, S. Pervez, J. C. Chow, J. G. Watson, S. Tiwari, A. S. Panicker, R. K. Chakrabarty, Y. F. Pervez | School of Studies in Chemistry | 4.06 | Environmental Geochemistry and Health | 2018 | 0269-4042 | 10.15233/gfz.2020.37.1 |
| Domestic use of cooking fuel in India: A review on emission characteristics and associated health concerns | M. Verma, S. Pervez, M. K. Deb, D. Majumdar | School of Studies in Chemistry | 0.53 | Asian Journal of Chemistry | 2018 | 9707077 | 10.1016/j.gsd.2020.100356 |
| Emission estimation of aromatic and halogenated VOCs from household solid fuel burning practices | M. Verma, S. Pervez, D. Majumdar, R. Chakrabarty, Y. F. Pervez | School of Studies in Chemistry | 3.05 | International Journal of Environmental Science and Technology | 2020 | 1735-1472 | |
| Spatiotemporal Variation in Groundwater Quality of India during last 15 Years: A Review | P. Dugga, S. Pervez, R. K. Sahu, M. Verma, S. Bano, M. K. Deb, | School of Studies in Chemistry | 0 | Journal of Ravishankar University, Part-B Science | 2017 | 0970-5910 | 10.1016/j.scitotenv.2018.11.019 |

| | | | | | | | |
|---|---|--------------------------------|-------|-----------------------------|------|-------------|---|
| Assessment and evaluation of ambient PM _{2.5} in relation to its health effects in mineral-based coal-fired industrial areas | S. Pervez, R. K. Sahu, M. Tripathi, S. Bano, J. L. Matawle, S. Tiwari, M.K. Deb and Y.F. Pervez | School of Studies in Chemistry | 1.68 | Geofizika | 2020 | 0352-3659 | https://doi.org/10.15233/gfz.2020.37.1 |
| Spatiotemporal variability and source apportionment of the ionic components of groundwater of a mineral-rich tribal belt in Bastar, India | P. Dugga, S. Pervez, M. Tripathi, Md. N. Siddiqui | School of Studies in Chemistry | 5.213 | Groundw. Sustain. Dev. | 2020 | 2352801X | https://doi.org/10.1016/j.gsd.2020.100356 |
| Household solid fuel burning emission characterization and activity levels in India | S. Pervez, M. Verma, S. Tiwari, R. K. Chakrabarty, J. G. Watson, J.C. Chow, A. S. Panicker, M. K. Deb, Md. N. Siddiqui, Y.F. Pervez | School of Studies in Chemistry | 7.96 | Sci. Total Environ. | 2019 | 0048-9697 | https://doi.org/10.1016/j.scitotenv.2018.11.019 |
| Hydrolysis of di-3-chloro-2-methylaniline phosphate in buffer medium | S. kindo, S. A. Bhoite | School of Studies in Chemistry | 6.09 | Acta Ciencia Indica | 2016 | 0253 – 7338 | |
| Kinetic study of acidic hydrolysis of di-2,3-dichloroaniline phosphate | N. Chhetri, S. A. Bhoite | School of Studies in Chemistry | 0.53 | Asian J. Chem. | 2016 | 9707077 | |
| Kinetics & mechanistic study of micellar effect on the hydrolytic reaction of di-2-methoxy-4-nitroaniline phosphate | H. Yadav, S. A. Bhoite, A. K. Singh | School of Studies in Chemistry | 2.26 | J. Dispersion Sci. Technol. | 2016 | 0193-2691 | https://doi.org/10.1080/01932691.2016.1146614 |
| Kinetic study of hydrolysis of di-3-chloro-2-methylaniline phosphate in acid medium. | S. Kindo, S. A. Bhoite | School of Studies in Chemistry | 2.19 | Int. J. Chem. Sci. | 2016 | 0975-0975 | |
| Kinetic study of hydrolysis of mono-3,5-dimethylaniline phosphate in buffer medium | S. Kindo, S. A. Bhoite | School of Studies in Chemistry | 0.53 | Asian J. Chem. | 2017 | 9707077 | |
| Kinetics of Hydrolysis of Di-2,3-dichloroaniline Phosphate in Buffer Media | N. Chhetri, S. A. Bhoite | School of Studies in Chemistry | 2.19 | Int. J. Chem Tech Res. | 2017 | 2455-9555 | |

| | | | | | | | |
|---|--|--------------------------------|------|----------------------------|------|-------------|---|
| Effect of micelles on hydrolysis of di-2,3-dichloroaniline phosphate | N. Chhetri, S.A. Bhoite, A. K. Singh, Bhawana Jain | School of Studies in Chemistry | 0.48 | Indian J. Chem. A. | 2020 | 0975-0975 | |
| Micellar catalyzed hydrolysis of mono-2,3-dichloroaniline phosphate. | N. Chhetri, S. A. Bhoite, A. K. Singh | School of Studies in Chemistry | 2.26 | J. Disper. Sci. Technol. | 2018 | 0193-2691 | |
| Kinetics of hydrolysis of di-2,3-dichloroaniline phosphate in buffer media. | N. Chhetri, S. A. Bhoite | School of Studies in Chemistry | 2.19 | Int. J. Chem Tech Res. | 2017 | 2455-9555 | |
| Acid catalyzed hydrolysis of mono-2,3-dichloroaniline phosphate. | N. Chhetri, S. A. Bhoite | School of Studies in Chemistry | 1.86 | Acta Ciencia Indica | 2017 | 0253 – 7338 | |
| Kinetic study of acidic hydrolysis of di-2,3-dichloroaniline phosphate. | N. Chhetri, S. A. Bhoite | School of Studies in Chemistry | 0.53 | Asian J. Chem. | 2016 | 9707077 | |
| Study of solvent effects on hydrolysis of mono- <i>m</i> -toluidine phosphate. | N. Chhetri, S. A. Bhoite | School of Studies in Chemistry | 6.94 | Int. J. Chem Tech Res. | 2016 | 2455-9555 | |
| Sensitive spectrophotometric determination of deltamethrin using leuco malachite green in environmental samples | M. Nirmal, R. Khatoon, M. K. Rai | School of Studies in Chemistry | 0.53 | Asian Journal of Chemistry | 2016 | 9707077 | |
| Floatation Dissolution based spectrophotometric method for scanning of ethion | V. Patel, R. Khatoon, M. K. Rai | School of Studies in Chemistry | 0.53 | Asian Journal of Chemistry | 2016 | 9707077 | |
| Analytical Determination of Carbendazim in Environmental Samples with Iron(III) and 1,10-Phenanthroline as Reagents | K.Wani, M. Nirmal, R. Khatoon, M. K. Rai, | School of Studies in Chemistry | 0.53 | Asian Journal of Chemistry | 2017 | 9707077 | |
| Low Cost Paper Electrode Fabricated by Direct Writing with Silver Nanoparticles Based Ink for Detection of Hydrogen Peroxide in Waste Water | A. Ghosale, K. Shrivastava, R. Shankar, V. Ganesan | School of Studies in Chemistry | 6.98 | Analytical Chemistry | 2017 | 0003-2700 | https://doi.org/10.1021/acs.analchem.6b03512 |
| Direct-writing of paper based conductive track using silver nano-ink for electroanalytical application | A. Ghosale, R. Shankar, V. Ganesan, K. Shrivastava | School of Studies in Chemistry | 6.90 | Electrochimica Acta | 2016 | 0013-4686 | https://doi.org/10.1016/j.electacta.2016.05.109 |

| | | | | | | | |
|--|--|--------------------------------|------|-----------------------------------|------|-----------|---|
| Onsite-detection of barium and nickel from river, pond and tap water samples using gold nanoparticles as a chemical sensor | K. Shrivias, P. Maji, K. Dewangan | School of Studies in Chemistry | 4.09 | Spectrochim. Acta | 2017 | 1386-1425 | https://doi.org/10.1016/j.saa.2016.10.020 |
| 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 | K. Shrivias, N. Nirmalkar, A. Ghosale, S. S. Thakur, R. Shankar | School of Studies in Chemistry | 3.24 | RSC Advance | 2016 | 2046-2069 | https://doi.org/10.1039/C6RA16097B |
| Surfactant-based dispersive liquid-liquid microextraction for the determination of zinc in environmental water samples using flame atomic absorption spectrometry | K. Shrivias, K. Dewangan, A. Ahmed | School of Studies in Chemistry | 2.77 | Analytical Methods | 2016 | 1759-9660 | https://doi.org/10.1039/C6AY01277A |
| Sucrose capped gold nanoparticles as a plasmonic chemical sensor based on non-covalent interactions: Application for selective detection of vitamins B ₁ and B ₆ in brown and white rice food samples, | K. Shrivias, N. Nirmalkar, S. S. Thakur, M. K. Deb, S. S. Shinde, R. Shankar | School of Studies in Chemistry | 7.51 | Food Chemistry | 2018 | 0308-8146 | https://doi.org/10.1016/j.foodchem.2018.01.002 |
| A low-cost screen printed glass electrode with silver nano-ink for electrochemical detection of H ₂ O ₂ , | R. Devi, K. Tapadia, T. Kant, A. Ghosale, K. Shrivias, I. Karbhal, T. Maharana | School of Studies in Chemistry | 2.77 | Analytical Methods | 2018 | 1759-9660 | https://doi.org/10.1039/C8AY00652K |
| Methyl orange paired microextraction and diffuse reflectance-fourier transform infrared spectral monitoring for improved signal strength of total mixed cationic surfactants, | R. Kurrey, M. K. Deb, K. Shrivias | School of Studies in Chemistry | 1.90 | Journal of Surfactants Detergents | 2018 | 10973958 | https://doi.org/10.1002/jsde.12012 |
| Food safety monitoring of the pesticide phenthoate using a smartphone-assisted paper-based sensor with bimetallic Cu@Ag core-shell nanoparticles | K. Shrivias, M. Sahu, S. Patel, S. S. Thakur, R. Shankar | School of Studies in Chemistry | 6.79 | Lab Chip | 2020 | 1473-0197 | https://doi.org/10.1039/D0LC00515K |

| | | | | | | | |
|---|---|--------------------------------|------|----------------------|------|--------------------|---|
| Advances in flexible electronics and electrochemical sensors using conducting nanomaterials: A review | K. Shrivasa, A. Ghosale, P. K. Bajpai, T. Kant, K. Dewangan, R. Shankar | School of Studies in Chemistry | 4.82 | Microchem. J. | 2020 | 0026265X | https://doi.org/10.1016/j.microc.2020.104944 |
| Phytochemical screening and determination of phenolics and flavonoids in Dilleniapentagyna using UV-vis and FTIR spectroscopy | T. K. Patle, K. Shrivasa, R. Kurrey, S. Upadhyay, R. Jangde, R. Chauhan | School of Studies in Chemistry | 4.09 | Spectrochim. Acta A. | 2020 | 1386-1425 | https://doi.org/10.1016/j.saa.2020.118717 |
| A low-cost screen printed glass electrode with silver nano-ink for electrochemical detection of H ₂ O ₂ | A. Ghosale, K. Shrivasa, M. K. Deb, V. Ganesan, I. Karbhal, P. K. Bajpai, R. Shankar | School of Studies in Chemistry | 2.77 | Anal. Methods. | 2018 | 1759-9660 | https://doi.org/10.1039/D0NJ02158J |
| Experimental and theoretical approaches for theselective detection of thymine in real samples using gold nanoparticles as a biochemical sensor | K. Shrivasa, N. Nirmalkar, S. S. Thakur, R. Kurrey, D. Sinha, R. Shankar | School of Studies in Chemistry | 3.24 | RSC Adv. | 2018 | 2046-2069 | https://doi.org/10.1039/D0NJ02158J |
| Colorimetric and paper-based detection of lead using PVA capped silvernanoparticles: Experimental and theoretical approach | K. Shrivasa, B. Sahu, M.K. Deb, S.S. Thakur, S.Sahu, R.Kurrey, T. Kant, T.K. Patle, R. Jangde | School of Studies in Chemistry | 4.82 | Microchem. J. | 2019 | 0026-265X | https://doi.org/10.1016/j.saa.2020.118961 |
| Application of functionalized silver nanoparticles as a biochemical sensor for selective detection of lysozyme protein in milk sample | K. Shrivasa, N. Nirmalkar, M. K. Deb, K. Dewangan, J. Nirmalkar, S. Kumar | School of Studies in Chemistry | 4.09 | Spectrochim. Acta A | 2019 | 1386-1425 | https://doi.org/10.1016/B978-0-12-821883-9.00010-2 |
| Silver nanoparticles for selective detection of phosphoruspesticide containing π -conjugated pyrimidine nitrogen and sulphur moieties through non-covalent interactions | K. Shrivasa, S. Sahu, B. Sahu, R. Kurrey, T. K. Patle, T. Kant, I. Karbhal, M. L. Satnami, M. K. Deb, K. K. Ghosh | School of Studies in Chemistry | 6.16 | J. Mol. Liq. | 2019 | 18733166, 01677322 | https://doi.org/10.1016/moliq..2018.11.071 |

| | | | | | | | |
|--|--|--------------------------------|------|---|------|--------------------|---|
| 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 and white rice food samples | K. Shrivastava, N. Nirmalkara, S. S. Thakur, M. K. Deb, S. S. Shinde, R. Shankar | School of Studies in Chemistry | 7.51 | Food Chemistry | 2018 | 0308-8146 | https://doi.org/10.1016/j.saa.2020.118962 |
| 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 | School of Studies in Chemistry | 6.16 | Journal of Molecular Liquids | 2017 | 18733166, 01677322 | https://doi.org/10.1016/j.saa.2020.118963 |
| 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 | School of Studies in Chemistry | 4.09 | Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy | 2017 | 13861425 | https://doi.org/10.1016/j.saa.2020.118964 |
| Surface plasmon resonance based spectrophotometric determination of medicinally important thiol compounds using unmodified silver nanoparticles | S. K. Vaishnav, K. Patel, K. Chandraker, J. Korram, R. Nagwanshi, K. K. Ghosh, M. L. Satnami | School of Studies in Chemistry | 4.09 | Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy | 2017 | 13861425 | https://doi.org/10.1016/j.saa.2020.118965 |
| Mn ²⁺ Doped-CdTe/ZnS Modified Fluorescence Nanosensor for Detection of Glucose | S. K. Vaishnav, J. Korram, R. Nagwanshi, K. K. Ghosh, M. L. Satnami | School of Studies in Chemistry | 7.33 | Sensors and Actuators B. | 2017 | 9254005 | https://doi.org/10.1016/j.snb.2017.01.118 |
| Green Luminescent CdTe Quantum Dot Based Fluorescence Nano-Sensor for Sensitive Detection of Arsenic (III) | S. K. Vaishnav, J. Korram, P. Pradhan, K. Chandraker, R. Nagwanshi, M. L. Satnami | School of Studies in Chemistry | 2.21 | Journal of Fluorescence | 2016 | 15734994, 10530509 | https://doi.org/10.1016/j.saa.2020.118967 |
| Reactivity of Hydroxamate Ions in Cationic Vesicular Media for the Cleavage of Carboxylate Esters | N. Kandpal, H. K. Dewangan, R. Nagwanshi, S. K. Vaishnav, K. K. Ghosh, M. L. Satnami | School of Studies in Chemistry | 1.93 | Journal of Surfactants and Detergents | 2016 | 15589293, 10973958 | https://doi.org/10.1016/j.saa.2020.118968 |

| | | | | | | | |
|--|---|--------------------------------|-------|---|------|----------------------|---|
| 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 | School of Studies in Chemistry | 3.18 | Catalysis Letters | 2016 | 1572879X, 1011372X | https://doi.org/10.1016/j.saa.2020.118969 |
| 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 | School of Studies in Chemistry | 6.16 | Journal of Molecular Liquids | 2016 | 18733166, 01677322 | https://doi.org/10.1016/j.saa.2020.118970 |
| Protein nanoparticle interaction: A spectrophotometric approach for adsorption kinetics and binding studies | S. K. Vaishnav, K. Chandraker, J. Korram, R. Nagwanshi, K. K. Ghosh | School of Studies in Chemistry | 3.12 | Journal of Molecular Structure | 2016 | 222860 | https://doi.org/10.1016/j.saa.2020.118971 |
| Hydrolytic cleavage of paraoxon and parathion by oximate and functionalized oximate ions: a comparative study | H. K. Dewangan, N. Kandpal, R. Nagwanshi, M. L. Satnami | School of Studies in Chemistry | 0.48 | Indian Journal of Chemistry A | 2016 | 0975-0975, 0376-4710 | https://doi.org/10.1016/j.saa.2020.118972 |
| 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 | School of Studies in Chemistry | 7.33 | Sensors and Actuators B: Chemical | 2018 | 0925-4005 | https://doi.org/10.1016/j.saa.2020.118973 |
| Silver nanoparticle modulates gene expressions, glyoxalase system and oxidative stress markers in fluoride stressed Cajanuscajan L. | B. Yadu, V. Chandraker, J. Korram, M. L. Satnami, M. Kumar, S. Keshavkant | School of Studies in Chemistry | 10.58 | Journal of Hazardous Materials | 2018 | 0304-3894 | https://doi.org/10.1016/j.saa.2020.118974 |
| 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 | School of Studies in Chemistry | 4.09 | Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy | 2018 | 1386-1425 | https://doi.org/10.1016/j.saa.2020.118975 |

| | | | | | | | |
|--|--|--------------------------------|------|--|------|----------------------|---|
| 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, R. Sahu, M. L. Satnami, K. K. Ghosh | School of Studies in Chemistry | 1.98 | Journal of Surfactants and Detergents | 2018 | 1097-3958, 1558-9293 | https://doi.org/10.1002/jsde.12032 |
| Spectroscopic studies on in vitro molecular interaction of highly fluorescent carbon dots with different serum albumins | S. K. Vaishnav, I. Karbhal, M. L. Satnami, K. K. Ghosh | School of Studies in Chemistry | 6.16 | Journal of Molecular Liquids | 2018 | 0167-7322 | https://doi.org/10.1016/j.saa.2020.118977 |
| Hydrolytic Dephosphorylation of p-Nitrophenyl Diphenyl Phosphate by Alkyl Hydroxamate Ions | N. Kandpal, H. K. Dewangan, R. Nagwanshi, K. K. Ghosh, M. L. Satnami | School of Studies in Chemistry | 1.98 | Journal of Surfactants and Detergents | 2018 | 1558-9293 | https://doi.org/10.1016/j.saa.2020.118978 |
| Micellar-accelerated hydrolysis of organophosphate and thiophosphates by pyridine oximate | N. Kandpal, H. K. Dewangan, R. Nagwanshi, K. K. Ghosh, M. L. Satnami | School of Studies in Chemistry | 1.46 | International Journal of Chemical Kinetics | 2018 | 1097-4601 | https://doi.org/10.1016/j.saa.2020.118979 |
| Host-guest complexation of ionic liquid with α - and β -cyclodextrins: a comparative study by ¹ H-NMR, ¹³ C-NMR and COSY | M. K. Banjare, K. Behera, M. L. Satnami, S. Pandey, K. K. Ghosh | School of Studies in Chemistry | 3.59 | New Journal of Chemistry | 2018 | 1144-0546, 1369-9261 | https://doi.org/10.1016/j.saa.2020.118980 |
| Self-assembly of a short-chain ionic liquid within deep eutectic solvents | M. K. Banjare, K. Behera, Manmohan L. Satnami, Siddharth Pandey, K. K. Ghosh | School of Studies in Chemistry | 3.24 | RSC Advances | 2018 | 2046-2069 | https://doi.org/10.1016/j.saa.2020.118981 |
| Supra-molecular inclusion complexation of ionic liquid 1-butyl-3-methylimidazolium octylsulphate with α - and β -cyclodextrins | M. K. Banjare, K. Behera, M. L. Satnami, S. Pandey, K. K. Ghosh | School of Studies in Chemistry | 2.32 | Chemical Physics Letters | 2017 | 0009-2614 | https://doi.org/10.1016/j.saa.2020.118982 |
| 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, M. L. Satnami | School of Studies in Chemistry | 6.16 | Journal of Molecular Liquids | 2017 | 0167-7322 | https://doi.org/10.1016/j.saa.2020.118983 |

| | | | | | | | |
|--|--|--------------------------------|------|---|------|--------------------|---|
| 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 | School of Studies in Chemistry | 4.09 | Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy | 2017 | 1386-1425 | https://doi.org/10.1016/j.saa.2020.118984 |
| 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 | School of Studies in Chemistry | 6.16 | Journal of Molecular Liquids | 2017 | 0167-7322 | https://doi.org/10.1016/j.saa.2020.118985 |
| Surface plasmon resonance based spectrophotometric determination of medicinally important thiol compounds using unmodified silver nanoparticles | S. K. Vaishnav, K. Patel, K. Chandraker, J. Korram, R. Nagwanshi, K. K. Ghosh, M. L. Satnami | School of Studies in Chemistry | 4.09 | Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy | 2017 | 1386-1425 | https://doi.org/10.1016/j.saa.2020.118986 |
| Green Luminescent CdTe Quantum Dot Based Fluorescence Nano-Sensor for Sensitive Detection of Arsenic (III) | S. K. Vaishnav, J. Korram, P. Pradhan, K. Chandraker, R. Nagwanshi, K. K. Ghosh, M. L. Satnami | School of Studies in Chemistry | 2.21 | Journal of Fluorescence | 2016 | 10530509, 15734994 | https://doi.org/10.1016/j.saa.2020.118987 |
| 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 | School of Studies in Chemistry | 3.18 | Catalysis Letters | 2016 | 1572879X, 1011372X | https://doi.org/10.1016/j.saa.2020.118988 |
| Reactivity of hydroxamate ions in cationic vesicular media for the cleavage of carboxylate esters | N. Kandpal, H. K. Dewangan, R. Nagwanshi, S. K. Vaishnav, K. K. Ghosh, M. L. Satnam | School of Studies in Chemistry | 1.98 | Journal of Surfactants and Detergents | 2016 | 1558-9293 | https://doi.org/10.1016/j.saa.2020.118989 |
| Mn ²⁺ Doped-CdTe/ZnS Modified Fluorescence Nanosensor for Detection of Glucose | M. L. Satnami, S. K. Vaishnav, J. Korram, R. Nagwanshi, K. K. Ghosh | School of Studies in Chemistry | 7.33 | Sensors and Actuators B | 2016 | 0925-4005 | https://doi.org/10.1016/j.saa.2020.118990 |

| | | | | | | | |
|---|---|--------------------------------|------|--------------------------|------|----------------------|---|
| CdTe QD-based inhibition and reactivation assay of acetylcholinesterase for the detection of organophosphorus pesticides | J. Korram, L. Dewangan, I. Karbhal, R. Nagwanshi, S. K. Vaishnav, K.K. Ghosh, M. L. Satnami | School of Studies in Chemistry | 3.59 | RSC Adv. | 2020 | 2046-2069 | https://doi.org/10.1016/j.saa.2020.118991 |
| 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. Karbhal, K. K. Ghosh, M. L. Satnami | School of Studies in Chemistry | 3.59 | New J. Chem. | 2020 | 1369-9261 | https://doi.org/10.1016/j.saa.2020.118992 |
| 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 | School of Studies in Chemistry | 7.33 | Sens. Actuators B Chem. | 2018 | 0925-4005 | https://doi.org/10.1016/j.saa.2020.118993 |
| Micellar-accelerated hydrolysis of organophosphate and thiophosphates by pyridine oximate | N. Kandpal, H. K. Dewangan, R. Nagwanshi, K. K. Ghosh, M. L. Satnami | School of Studies in Chemistry | 1.46 | Int J Chem Kinet. | 2018 | 1097-4601 | https://doi.org/10.1002/kin.21217 |
| 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 | School of Studies in Chemistry | 4.09 | Spectrochim. Acta Part A | 2017 | 1386-1425 | https://doi.org/10.1016/j.saa.2017.03.032 |
| Surface plasmon resonance based spectrophotometric determination of medicinally important thiol compounds using unmodified silver nanoparticles | S. K. Vaishnav, K. Patel, K. Chandraker, J. Korram, R. Nagwanshi, K. K. Ghosh, M. L. Satnami | School of Studies in Chemistry | 4.09 | Spectrochim. Acta Part A | 2017 | 1386-1425 | https://doi.org/10.1016/j.saa.2017.02.040 |
| Green luminescent CdTe quantum dot based fluorescence nano-sensor for sensitive detection of arsenic (III) | S. K. Vaishnav, J. Korram, P. Pradhan, K. Chandraker, R. Nagwanshi, K. K. Ghosh, M. L. Satnami | School of Studies in Chemistry | 2.21 | J. Fluoresc | 2017 | 1573-4994, 1053-0509 | https://doi.org/10.1016/j.saa.2020.118997 |

| | | | | | | | |
|---|---|--------------------------------|------|--------------------------|------|-----------|---|
| Mn ²⁺ Doped-CdTe/ZnS Modified Fluorescence Nanosensor for Detection of Glucose | M. L. Satnami, S. K. Vaishnav, J. Korram, R. Nagwanshi, K. K. Ghosh | School of Studies in Chemistry | 7.33 | Sens. Actuators B Chem. | 2017 | 0925-4005 | https://doi.org/10.1016/j.saa.2020.118998 |
| CdTe QD-based inhibition and reactivation assay of acetylcholinesterase for the detection of organophosphorus pesticides | J. Korram, L. Dewangan, I. Karbhal, R. Nagwanshi, S. K. Vaishnav, K. K. Ghosh, M. L. Satnami | School of Studies in Chemistry | 3.24 | RSC Advances | 2020 | 2046-2069 | https://doi.org/10.1016/j.saa.2020.118999 |
| 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. Karbhal, K. K. Ghosh, M. L. Satnami | School of Studies in Chemistry | 3.59 | New J. Chem. | 2020 | 1369-9261 | https://doi.org/10.1039/C9NJ00555B |
| 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 | School of Studies in Chemistry | 7.33 | Sens. Actuators B Chem. | 2018 | 0925-4005 | https://doi.org/10.1016/j.saa.2020.119001 |
| Micellar-accelerated hydrolysis of organophosphate and thiophosphates by pyridine oximate | N. Kandpal, H. K. Dewangan, R. Nagwanshi, K. K. Ghosh, M. L. Satnami | School of Studies in Chemistry | 1.46 | Int J Chem Kinet. | 2018 | 1097-4601 | https://doi.org/10.1002/kin.21217 |
| 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 | School of Studies in Chemistry | 4.09 | Spectrochim. Acta Part A | 2017 | 1386-1425 | https://doi.org/10.1016/j.saa.2017.03.032 |
| Surface plasmon resonance based spectrophotometric determination of medicinally important thiol compounds using unmodified silver nanoparticles | S. K. Vaishnav, K. Patel, K. Chandraker, J. Korram, R. Nagwanshi, K. K. Ghosh, M. L. Satnami | School of Studies in Chemistry | 4.09 | Spectrochim. Acta Part A | 2017 | 1386-1425 | https://doi.org/10.1016/j.saa.2017.02.040 |

| | | | | | | | |
|--|--|--------------------------------|------|--------------------------------------|------|------------------------------|---|
| Green luminescent CdTe quantum dot based fluorescence nano-sensor for sensitive detection of arsenic (III) | S. K. Vaishnav, J. Korram, P. Pradhan, K. Chandraker, R. Nagwanshi, K. K. Ghosh, M. L. Satnami | School of Studies in Chemistry | 2.21 | J. Fluoresc | 2017 | 1573-4994, 1053-0509 | https://doi.org/10.1016/j.saa.2020.119005 |
| Interaction of Folic Acid with Mn ²⁺ Doped CdTe/ZnS Quantum Dots: In Situ Detection of Folic Acid | S. K. Vaishnav, J. Korram, R. Nagwanshi, I. Karbhal, L. Dewangan, K. K. Ghosh, M. L. Satnami | School of Studies in Chemistry | 2.21 | J. Fluoresc | 2021 | 1573-4994, 1053-0509 | https://doi.org/10.1016/j.saa.2020.119006 |
| Smart nanosensors: Design, fabrication, and application | J. Korram, L. Dewangan, R. Nagwanshi, I. Karbhal, S. K. Vaishnav, M. L. Satnami | School of Studies in Chemistry | 1.06 | Nanosensors for Smart Manufacturing | 2021 | 9780128233580, 9780128236529 | https://doi.org/10.1016/B978-0-12-823358-0.00004-6 |
| Carbon dot induces tolerance to arsenic by regulating arsenic uptake, reactive oxygen species detoxification and defense-related gene expression in <i>Cicer arietinum</i> L | V. Chandrakar, B. Yadu, J. Korram, M. L. Satnami, A. Dubey, M. Kumar, S. Keshavkant | School of Studies in Chemistry | 5.21 | Plant Physiology and Biochemistry | 2020 | 0981-9428 | https://doi.org/10.1016/j.saa.2020.119008 |
| Amelioration of Ageing Associated Alterations and Oxidative Inequity in Seeds of <i>Cicer arietinum</i> by Silver Nanoparticles | J. Khan, J. Chandra, R. Xalxo, J. Korram, M. L. Satnami, S. Keshavkant | School of Studies in Chemistry | 5.21 | J Plant Growth Regul | 2021 | 1435-8107, 0721-7595 | https://doi.org/10.1016/j.saa.2020.119009 |
| CdTe QD-based inhibition and reactivation assay of acetylcholinesterase for the detection of organophosphorus pesticides | M. L. Satnami J. Korram, L. Dewangan, I. Karbhal, R. Nagwanshi, S. K. Vaishnav, K. K. Ghosh | School of Studies in Chemistry | 3.24 | RSC Advances | 2020 | 2046-2069 | https://doi.org/10.1016/j.saa.2020.119010 |
| Titanium nanoparticles attenuates arsenic toxicity by up-regulating expressions of defensive genes in <i>Vigna radiata</i> L | P. Katiyar, B. Yadu, J. Korram, M. L. Satnami, M. Kumar, S. Keshavkant | School of Studies in Chemistry | 1.56 | L. Journal of Environmental Sciences | 2020 | 1001-0742 | https://doi.org/10.1016/j.saa.2020.119011 |

| | | | | | | | |
|---|---|--------------------------------|------|--|------|----------------------|---|
| 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 | School of Studies in Chemistry | 3.39 | Journal of Biomolecular Structure and Dynamics | 2019 | 0739-1102, 1538-0254 | https://doi.org/10.1016/j.saa.2020.119012 |
| Colorimetric and smartphone-integrated paper device for on-site determination of arsenic (III) using sucrose modified gold nanoparticles as a nanoprobe | K. Shrivias, S. Patel, D. Sinha, S. S. Thakur, T. K. Patle, T. Kant, K. Dewangan, M. L. Satnami, J. Nirmalkar, S. Kumar | School of Studies in Chemistry | 5.83 | Microchimica Acta | 2020 | 1436-5073, 0026-3672 | https://doi.org/10.1016/j.saa.2020.119013 |
| Silica nanoparticle minimizes aluminium imposed injuries by impeding cytotoxic agents and over expressing protective genes in Cicer arietinum | J. Chandra, R. Chauhan, J. Korram, M. L. Satnami, S. Keshavkant | School of Studies in Chemistry | 3.46 | Scientia Horticulturae | 2020 | 0304-4238 | https://doi.org/10.1016/j.scienta.2019.108885 |
| Interaction of Ionic Liquid with Silver Nanoparticles: Potential Application in Induced Structural Changes of Globular Proteins | M. K. Banjare, K. Behera, R. M. Banjare, R. Sahu, S. Sharma, S. Pandey, M. L. Satnami, K. K. Ghosh | School of Studies in Chemistry | 8.19 | ACS Sustainable Chem. Eng | 2019 | 2168-0485 | https://doi.org/10.1021/acssuschemeng.8b06598 |
| Antidepressant drug-protein interactions studied by spectroscopic methods based on fluorescent carbon quantum dots | S. K. Vaishnav, T. Yadav, S. Sinha, S. Tiwari, M. L. Satnami, K. K. Ghosh | School of Studies in Chemistry | 2.85 | Heliyon | 2019 | 2405-8440 | https://doi.org/10.1016/j.heliyon.2019.e01631 |
| Influence of pyridine oximate and quaternized pyridinium oximate ions on the hydrolysis of phosphate esters in cationic microemulsions | N. Kandpal, H. K. Dewangan, R. Nagwanshi, K. K. Ghosh, Manmohan L. Satnami | School of Studies in Chemistry | 2.26 | Journal of Dispersion Science and Technology | 2019 | 0193-2691, 1532-2351 | https://doi.org/10.1080/01932691.2018.1476151 |
| Silver nanoparticles for selective detection of phosphorus pesticide containing π -conjugated pyrimidine nitrogen and sulfur moieties through non-covalent interactions | K. Shrivias, S. Sahu, B. Sahu, R. Kurrey, T. K. Patle, T. Kant, I. Karbhal, M. L. Satnami, M. K. Deb, | School of Studies in Chemistry | 6.16 | Journal of Molecular Liquids | 2019 | 0167-7322 | https://doi.org/10.1016/j.molliq.2018.11.071 |

| | | | | | | | |
|--|---|--------------------------------|-------|--------------------------------------|------|-----------------------------------|---|
| | K. K. Ghosh | | | | | | |
| A colorimetric nanoprobe based on enzyme-immobilized silver nanoparticles for the efficient detection of cholesterol | L. Dewangan, J. Korram, I. Karbhal, R. Nagwanshi, V. K. Jena, M. L. Satnami | School of Studies in Chemistry | 3.24 | RSC Advances | 2019 | 2046-2069 | https://doi.org/10.1039/C9RA08328F |
| Facile Green Synthesis of BCN Nanosheets as High-Performance Electrode Material for Electrochemical Energy Storage | I. Karbhal, R. R. Devarapalli, J. Debgupta, V. K. Pillai, P. M. Ajayan, M. V. Shelke. | School of Studies in Chemistry | 5.23 | Chemistry–A European Journal | 2016 | 0947-6539 (print) 1521-3765 (web) | https://doi.org/10.1002/chem.201505225 |
| Sunlight assisted degradation of dye molecules and reduction of toxic Cr (vi) in aqueous medium using magnetically recoverable Fe ₃ O ₄ /reduced graphene oxide nanocomposite | P. K. Boruah, P. Borthakur, G. Darabdhara, C. K. Kamaja, I. Karbhal, M. V. Shelke, P. Phukan, D. Saikia, M. R. Das. | School of Studies in Chemistry | 3.24 | RSC Advances | 2016 | 2046-2069 | https://doi.org/10.1016/j.saa.2020.119021 |
| Ammonia-modified graphene sheets decorated with magnetic Fe ₃ O ₄ nanoparticles for the photocatalytic and photo-Fenton degradation of phenolic compounds under sunlight irradiation | P. K. Boruah, B. Sharma, I. Karbhal, M. V. Shelke, M. R. Das. | School of Studies in Chemistry | 10.58 | Journal of Hazardous Materials | 2017 | 0304-3894. | https://doi.org/10.1016/j.saa.2020.119022 |
| Impact of rare-earth metal oxide (Eu ₂ O ₃) on the electrochemical properties of a polypyrrole/CuO polymeric composite for supercapacitor applications." | M. Majumder, R. B. Choudhary, A. K. Thakur, I. Karbhal | School of Studies in Chemistry | 3.24 | RSC Advances | 2017 | 2046-2069 | https://doi.org/10.1016/j.saa.2020.119023 |
| Facile synthesis and electrochemical evaluation of PANI/CNT/MoS ₂ ternary composite as an electrode material for high performance | A. K. Thakur, A. B. Deshmukh, R. B. Choudhary, I. Karbhal, M. Majumder, M. V. Shelke. | School of Studies in Chemistry | 4.05 | Materials Science and Engineering: B | 2017 | 2161-6213 (print) | https://doi.org/10.1016/j.saa.2020.119024 |

| | | | | | | | |
|--|---|--------------------------------|------|-------------------------|------|-----------|---|
| Architecture of NaFe(MoO ₄) ₂ as a novel anode material for rechargeable lithium and sodium ion batteries | A. M Tamboli, M. S. Tamboli, C. S. Praveen, P. K. Dwivedi, I. Karbhal, S. W. Gosavi, M. V. Shelke, B. B. Kale | School of Studies in Chemistry | 2.67 | Applied Surface Science | 2021 | 0169-4332 | https://doi.org/10.1016/j.apsusc.2021.149903 |
| Laser patterning of boron carbon nitride electrodes for flexible micro-supercapacitor with remarkable electrochemical stability/capacity | I. Karbhal, A. Basu, A. Patrike, M. V. Shelke | School of Studies in Chemistry | 9.59 | Carbon | 2021 | 0008-6223 | doi.org/10.1016/j.carbon.2020.09.053 |