List of Publications during last five years

S/ No.	Title of paper	Name of the author/s	Department	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
1.	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
2.	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	3.19	J. Mol. Struc.	2016	0022-2860	https://doi.org/10.1016/j.molstruc.2016.03.087
3.	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
4.	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

5.	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
6.	Green Luminescent CdTe Quantum Dot Based Fluorescence Nano-Sensor for Sensitive Detection of Arsenic (III)	S. K. Vaishanav, J. Korram, P. Pradhan, K. Chandraker, R. Nagwanshi, K. K. Ghosh, M. L. Satnami	School of Studies in Chemistry	2.21	J. Fluoresc.	2017	2168-0485	https://doi.org/10.1007/s10895-016-2011-0
7.	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
8.	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
9.	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
10.	Mn2+ doped-CdTe/ZnS modified fluorescence nanosensor for detection of glucose	S. K. Vaishanav, 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
11.	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

12.	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
13.	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
14.	Reactivity of Hydroxamate Ions in Cationic Vesicular Media for the Cleavage of Carboxylate Esters	N. Kandpal, H. K. Dewangan, R. Nagwanshi, S. K. Vaishanav, 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
15.	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
16.	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
17.	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

18.	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
19.	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	Spectrochemica Acta	2018	0191-2917	https://doi.org/10.1016/j.saa.2018.03.079
20.	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
21.	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 and K.K. Ghosh	School of Studies in Chemistry	3.59	New J. Chem.	2018	15589293	https://doi.org/10.1039/C8NJ01840E
22.	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
23.	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
24.	Colorimetric Determination of L-Cysteine in Milk Samples with Surface Functionalized Silver Nanoparticles	S. Sahu, S. Sharma, T. Kant, K. Shrivas, K.K. Ghosh	School of Studies in Chemistry	4.09	Spectrochim. Acta	2021	15589293	https://doi.org/10.1002/jsde.12006

25.	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
26.	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
27.	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
28.	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
29.	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
30.	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
31.	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

32.	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
33.	Host-Guest Complexation of Ionic Liquid with α-and β-Cyclodextrins:A Comparative Study by 1H-NMR, 13C-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
34.	A comparative study on the effect of imidazolium-based ionic liquid onself-aggregation of cationic, anionic and nonionic surfactants studied bysurface 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
35.	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
36.	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
37.	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. Shrivas	School of Studies in Chemistry	1.90	Journal of Surfactant and Detergents	2017	15589293, 10973958	https://doi.org/10.1002/jsde.12012

38.	A low-cost screen printed glass electrode with silver nano-ink for electrochemical detection of H2O2	A. Ghosale, K. Shrivas, 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
39.	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
40.	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. Shrivas, 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
41.	Coarse particle (PM10–2.5) source profiles for emissions from domestic cooking and industrial process in Central India	S. Bano, S. Pervez, J. C. Chow, J. Matawle, J. G.Watsone, 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
42.	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
43.	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

44.	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
45.	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
46.	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
47.	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
48.	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. Shrivas	School of Studies in Chemistry	1.90	Journal of Surfactants and Detergent	2018	15589293, 10973958	https://doi.org/10.1002/jsde.12012
49.	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. Shrivas, 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
50.	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

51.	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
52.	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. Shrivas, 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
53.	Coarse particle (PM10–2.5) 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
54.	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/ajchem.2018.21006
55.	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
56.	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. Shrivas, 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

57.	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
58.	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	-
59.	Citrate-capped gold nanoprticles as a sensing probe for determination of cetyltrimethylammonium surfactant using FTIR spectreoscopy and colorimertry	R. Kurrey, M. K. Deb, K. Shrivas, 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
60.	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. Shrivas, 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
61.	Modified silver nanoparticles-enhanced single drop microextractionof 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
62.	Analytical approach on surface active agents in the environment and challenges	R. Kurrey, M. Mahilang, M.K. Deb, K. Shrivas	School of Studies in Chemistry	9.40	Trend. Environ. Anal. Chem.	2019	2214-1588	https://doi.org/10.1016/j.teac.2019.e00061
63.	Surface enhanced infra-red spectroscopy with modified silvernanoparticles (AgNPs) for detection of quaternary ammonium cationic surfactants	R. Kurrey, M. K. Deb, K. Shrivas	School of Studies in Chemistry	3.59	New J. Chem.	2019	1144-0546	https://doi.org/10.1039/C9NJ01795J

64.	Methyl Orange Paired Microextraction and Diffuse ReflectanceFourier Transform Infrared Spectral Monitoring for Improved Signal Strength of Total Mixed Cationic Surfactants	R. Kurrey, M.K. Deb, K.Shrivas	School of Studies in Chemistry	1.90	J. Surfactants Deterg.	2018	1558-9293	#VALUE!
65.	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
66.	Regional and Transported A erosols in Ambient A tmosphere of Raipur,India, during W inter	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
67.	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	
68.	Mass loading and episodic variation of molecular markers in PM2.5 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
69.	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
70.	Coarse particle (PM10–2.5) source profiles for emissions from domestic cooking and industrial process in Central India	S. Bano, S. Pervez, J. C. Chow, J. Matawle, J. G.Watsone, R. K. Sahu, A. Srivastava, S. Tiwari,Y. F.	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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71.	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
72.	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
73.	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
74.	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
75.	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

76.	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. Shrivas, 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
77.	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
78.	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
79.	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
80.	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
81.	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

82.	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
83.	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	
84.	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
85.	Assessment and evaluation of ambient PM2.5 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
86.	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
87.	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

88.	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	
89.	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	
90.	Kinetics & mechanistic study of miceller 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
91.	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	
92.	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	
93.	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	
94.	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	
95.	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	
96.	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	
97.	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	
98.	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	
99.	Study of solvent effects on hydrolysis of mono-*m*-toluidine	N. Chhetri, S. A. Bhoite	School of Studies in Chemistry	6.94	Int. J. Chem Tech	2016	2455-9555	

	phosphate.				Res.			
100.	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	
101.	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	
102.	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	
103.	Low Cost Paper Electrode Fabricated by Direct Writing with Silver Nanoparticles Based Ink for Detection of Hydrogen Peroxide in Waste Water	A. Ghosale, K. Shrivas, R. Shankar,V. Ganesan	School of Studies in Chemistry	6.98	Analytical Chemistry	2017	0003-2700	https://doi.org/10.1021/acs.analchem.6b03512
104.	Direct-writing of paper based conductive track using silver nano-ink for electroanalytical application	A. Ghosale, R. Shankar, V. Ganesan, K. Shrivas	School of Studies in Chemistry	6.90	Elctrochimica Acta	2016	0013-4686	https://doi.org/10.1016/j.electacta.2016.05.109
105.	Onsite-detection of barium and nickel from river, pond and tap water samples using gold nanoparticles as a chemical sensor	K. Shrivas, 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
106.	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. Shrivas, 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

107.	Surfactant-based dispersive liquid–liquid microextraction for the etermination of zinc in environmental water samples using flame atomic absorption spectrometry	K. Shrivas, K. Dewangan, A. Ahmed	School of Studies in Chemistry	2.77	Analytical Methods	2016	1759-9660	https://doi.org/10.1039/C6AY01277A
108.	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. Shrivas, 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
109.	A low-cost screen printed glass electrode with silver nano-ink for electrochemical detection of H2O2,	R. Devi, K. Tapadia, T. Kant, A. Ghosale, K. Shrivas, I. Karbhal, T. Maharana	School of Studies in Chemistry	2.77	Analytical Methods	2018	1759-9660	https://doi.org/10.1039/C8AY00652K
110.	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. Shrivas	School of Studies in Chemistry	1.90	Journal of Surfactants Detergents	2018	10973958	https://doi.org/10.1002/jsde.12012
111.	Food safety monitoring of the pesticide phenthoate using a smartphone-assisted paper-based sensor with bimetallic Cu@Ag core–shell nanoparticles	K. Shrivas, 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
112.	Advances in flexible electronics and electrochemical sensors using conducting nanomaterials: A review	K. Shrivas, 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

113.	Phytochemical screening and determination of phenolics and flavonoids in Dilleniapentagyna using UV–vis and FTIR spectroscopy	T. K. Patle, K. Shrivas, 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
114.	A low-cost screen printed glass electrode with silver nano-ink for electrochemical detection of H_2O_2	A. Ghosale, K. Shrivas, 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
115.	Experimental and theoretical approaches for theselective detection of thymine in real samples using gold nanoparticles as a biochemical sensor	K. Shrivas, 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
116.	Colorimetric and paper-based detection of lead using PVA capped silvernanoparticles: Experimental and theoretical approach	K. Shrivas, 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
117.	Application of functionalized silver nanoparticles as a biochemical sensor for selective detection of lysozyme protein in milk sample	K. Shrivas, 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
118.	Silver nanoparticles for selective detection of phosphoruspesticide containing π-conjugated pyrimidine nitrogen and sulphur moieties through non-covalent interactions	K. Shrivas, 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

119.	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. Shrivas, 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
120.	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
121.	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
122.	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
123.	Mn2+ Doped-CdTe/ZnS Modified Fluorescence Nanosensor for Detection of Glucose	S. K. Vaishanav, J. Korram, R. Nagwanshi, K. K. Ghosh, M. L.	School of Studies in Chemistry	7.33	Sensors and Actuators B.	2017	9254005	https://doi.org/10.1016/j.snb.2017.01.118

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124.	Green Luminescent CdTe Quantum Dot Based Fluorescence Nano-Sensor for Sensitive Detection of Arsenic (III)	S. K. Vaishanav, J. Korram, P Pradhan, K. Chandraker, R. Nagwanshi, 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
125.	Reactivity of Hydroxamate Ions in Cationic Vesicular Media for the Cleavage of Carboxylate Esters	N. Kandpal, H. K. Dewangan, R. Nagwanshi, S. K. Vaishanav, 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
126.	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
127.	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
128.	Protein nanoparticle interaction: A spectrophotometric approach for adsorption kinetics and binding studies	S. K. Vaishanav, 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
129.	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

130.	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, 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
131.	Silver nanoparticle modulates gene expressions, glyoxalase system and oxidative stress markers in fluoride stressed Cajanuscajan L.	B.Yadu, V. Chandrakar, 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
132.	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
133.	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
134.	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
135.	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

136.	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
137.	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
138.	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
139.	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
140.	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
141.	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

142.	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
143.	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
144.	Green Luminescent CdTe Quantum Dot Based Fluorescence Nano-Sensor for Sensitive Detection of Arsenic (III)	S. K. Vaishanav, J. Korram, P. Pradhan, K. Chandraker, R. Nagwanshi, K. K. Ghosh, M. L. Satnami	School of Studies in Chemistry	2.21	Journal of Fluorescence	2016	10530509, 15734994	https://doi.org/10.1016/j.saa.2020.118987
145.	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
146.	Reactivity of hydroxamate ions in cationic vesicular media for the cleavage of carboxylate esters	N. Kandpal, H. K. Dewangan, R. Nagwanshi, S. K. Vaishanav, 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
147.	Mn2+ Doped-CdTe/ZnS Modified Fluorescence Nanosensor for Detection of Glucose	M. L. Satnami, S. K. Vaishanav, J. Korram, R. Nagwanshi, K. K.	School of Studies in Chemistry	7.33	Sensors and Actuators B	2016	0925-4005	https://doi.org/10.1016/j.saa.2020.118990

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148.	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. Vaishanav, 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
149.	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
150.	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, 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
151.	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
152.	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

153.	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
154.	Green luminescent CdTe quantum dot based fluorescence nano-sensor for sensitive detection of arsenic (III)	S. K. Vaishanav, J. Korram, P. Pradhan, K. Chandraker, R. Nagwanshi, K. K. Ghosh, M. L. Satnami	School of Studies in Chemistry	2.21	J. Fluoresc	2017	1573-4994, 1053-0509	https://doi.org/10.1016/j.saa.2020.118997
155.	Mn2+ Doped-CdTe/ZnS Modified Fluorescence Nanosensor for Detection of Glucose	M. L. Satnami, S. K. Vaishanav, 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
156.	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. Vaishanav, 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
157.	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
158.	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, I. Karbhal, H. K.	School of Studies in Chemistry	7.33	Sens. Actuators B Chem.	2018	0925-4005	https://doi.org/10.1016/j.saa.2020.119001

		Dewangan, K. K. Ghosh						
159.	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
160.	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	Spectrochi m. Acta Part A	2017	1386-1425	https://doi.org/10.1016/j.saa.2017.03.032
161.	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	Spectrochi m. Acta Part A	2017	1386-1425	https://doi.org/10.1016/j.saa.2017.02.040
162.	Green luminescent CdTe quantum dot based fluorescence nano-sensor for sensitive detection of arsenic (III)	S. K. Vaishanav, J. Korram, P. Pradhan, K. Chandraker, R. Nagwanshi, K. K. Ghosh, M. L. Satnami	School of Studies in Chemistry	2.21	J. Fluoresc	2017	1573-4994, 1053-0509	https://doi.org/10.1016/j.saa.2020.119005
163.	Interaction of Folic Acid with Mn2+ Doped CdTe/ZnS Quantum Dots: In Situ Detection of Folic Acid	S. K. Vaishanav, 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

164.	Smart nanosensors: Design, fabrication, and application	J. Korram, L. Dewangan, R. Nagwanshi, I. Karbhal, S. K. Vaishanav, 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
165.	Carbon dot induces tolerance to arsenic by regulating arsenic uptake, reactive oxygen species detoxification and defense-related gene expression in Cicer arietinum 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
166.	Amelioration of Ageing Associated Alterations and Oxidative Inequity in Seeds of Cicer arietinum 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
167.	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. Vaishanav, K. K. Ghosh	School of Studies in Chemistry	3.24	RSC Advances	2020	2046-2069	https://doi.org/10.1016/j.saa.2020.119010
168.	Titanium nanoparticles attenuates arsenic toxicity by up-regulating expressions of defensive genes in Vigna radiata 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
169.	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

170.	Colorimetric and smartphone-integrated paper device for on-site determination of arsenic (III) using sucrose modified gold nanoparticles as a nanoprobe	K. Shrivas, 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
171.	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
172.	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
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174.	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
175.	Silver nanoparticles for selective detection of phosphorus pesticide containing π-conjugated pyrimidine nitrogen and sulfur moieties through non-covalent interactions	K. Shrivas, 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	Journal of Molecular Liquids	2019	0167-7322	https://doi.org/10.1016/j.molliq.2018.11.071

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178.	Sunlight assisted degradation of dye molecules and reduction of toxic Cr (vi) in aqueous medium using magnetically recoverable Fe3O4/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
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183.	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