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.	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

17.	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
18.	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
19.	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
20.	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
21.	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
22.	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
23.	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

24.	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
25.	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
26.	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
27.	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
28.	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
29.	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
30.	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

31.	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
32.	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
33.	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
34.	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
35.	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
36.	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

37.	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
38.	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
39.	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
40.	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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41.	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
42.	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
43.	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
44.	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
45.	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
46.	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

47.	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
48.	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
49.	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
50.	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
51.	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
52.	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

53.	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
54.	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
55.	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
56.	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
57.	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
58.	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

59.	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
60.	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
61.	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
62.	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
63.	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
64.	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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65.	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
66.	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
67.	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
68.	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
69.	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

70.	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
71.	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
72.	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
73.	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
74.	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
75.	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

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76.	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
77.	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
78.	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
79.	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
80.	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

81.	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
82.	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
83.	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
84.	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
85.	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
86.	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

87.	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
88.	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
89.	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
90.	Antidepressant drug-protein interactions studied by spectroscopic methods based on fluorescent carbon quantum dots	S. K. Vaishanav, 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
91.	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
92.	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

93.	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
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95.	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
96.	Ammonia-modified graphene sheets decorated with magnetic Fe3O4 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
97.	Impact of rare-earth metal oxide (Eu2O3) 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
98.	Facile synthesis and electrochemical evaluation of PANI/CNT/MoS2 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

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100.	Laser patterning of boron carbonnitride 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
101.	Degradation of Organophosphate Pesticides Using Pyridinium Based Functional Surfactants.	R. Sharma, Bhanushree Gupta, T. Yadav, S. Sinha, A. K. Sahu, Y. Karpichev, N. Gathergood J. Marek, K. Kuca, K. K. Ghosh	Chemistry, Center for Basic Sciences	8.19	ACS Sustainable Chem. Eng.	2016	2168-0485	doi.org/10.1021/acssuschemeng.6b01878
102.	Oxime Mediated In-Vitro Reactivation Kinetic Analysis of Organophosphates-Inhibited Human and Electric Eel Acetylcholinesterase	A. K. Sahu, R. Sharma, Bhanushree Gupta, K. Musilek, K. Kuca, J. R. Acharya and K. K Ghosh	Chemistry, Center for Basic Sciences	1.42	Toxicol. Mech. Methods	2016	15376524	doi: 10.3109/15376516.2016.1143070
103.	Synthesis and in-vitro reactivation screening of imidazolium aldoximes as reactivators of sarin and VX-inhibited human acetylcholinesterase (hAChE)	R. Sharma, Bhanushree Gupta, A. K. Sahu, J. Acharya, M. L. Satnami and K. K. Ghosh	Chemistry, Center for Basic Sciences	5.19	Chem. Biol. Intract.	2016	0009-2797 (print) 1872-7786 (web)	doi: 10.1016/j.cbi.2016.04.034
104.	Metallosurfactant Aggregates as Catalysts for the Hydrolytic Cleavage of Carboxylate and Phosphate Esters	K. K. Ghosh, Bhanushree Gupta and S. Bhattacharya	Chemistry, Center for Basic Sciences	0.94	Curr. Organocatal.	2016	2213-3380	DOI: 10.2174/2213337202666150713174927

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106.	Glycosylated-imidazole aldoximes as reactivators of pesticides inhibited AChE: Synthesis and in-vitro reactivation study	R. Sharma, K. Upadhyay, Bhanushree Gupta, K. K. Ghosh, Rama P. Tripathi, K. Musilek, K. Kuca	Chemistry, Center for Basic Sciences	4.86	Environ. Toxicol. Pharmacol.	2020	1382-6689	doi: 10.1016/j.etap.2020.103454
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108.	Biosensors as Nano-Analytical Tools for COVID-19 Detection	Anchal Pradhan, Preeti Lahare, Priyank Sinha, Namrata Singh, Bhanushree Gupta, Kamil Kuca, Ondrej Krejcar, Kallol K Ghosh	Chemistry, Center for Basic Sciences	3.57	Sensors	1424-8220	2021	https://doi.org/10.3390/s21237823
109.	Pathogenesis-related proteins: Role in plant defense	**Veenu Joshi**, N. Joshi, A. Vyas, and S.K. Jadhav	Center for Basic Sciences	-	Elsevier Book Chapter	2021	978-0-12-822919-4	
110.	Quantum dots: Prospectives, toxicity, advances and applications	B. Gidwani, V. Sahu, S.S. Shukla, R. Pandey, **Veenu Joshi**, V.K. Jain, A. Vyas	Center for Basic Sciences	2.73	Journal of Drug Delivery Science and Technology	2021	17732247	

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114.	Alkamides: Multifunctional Bioactive Agents in Spilanthes spp.	**Veenu Joshi**, G.D. Sharma and S.K. Jadhav	Center for Basic Sciences	-	Journal of Scientific Research	2020	2070-0237	10.37398/JSR.2020.640129
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