

List of Publication 2022-2023

(01-07-2022 to 30-06-2023)

S.N	Title of paper	Name of the author/s	Department	Name of journal	ISSN number	Link to the recognition in UGC enlistment of the Journal
1	Selective detection of tartaric acid using amino acid interlinked silver nanoparticles as a colorimetric probe	Sushama Sahu, Kallol K. Ghosh	Chemistry	Analytical Methods, 14 , 3323-3334	1759-9679	https://doi.org/10.1039/D2AY01088G
2	Recent advances on gold and silver nanoparticle-based colorimetric strategies for the detection of different substances and SARS-CoV-2: a comprehensive review	Sushama Sahu, Srishti Sharma, Ramsingh Kurrey, Kallol K. Ghosh	Chemistry	Environmental Science: Nano, 9 , 3684-3710	2051-8161	https://doi.org/10.1039/D2EN00503D
3	Mixed Oxime-Functionalized IL/16-s-16 Gemini Surfactants System: Physicochemical Study and Structural Transitions in the Presence of Promethazine as a Potential Chiral Pollutant	Subhashree Jayesh Pandya, Illia V. Kapitanov, Manoj Kumar Banjare, Kamalakanta Behera, Victor Borovkov, Kallol K. Ghosh, Yevgen Karpichev	Chemistry	Chemosensors, 10 , 1-21	0254-0584	https://doi.org/10.3390/chemosensors10020046
4	Interaction of an imidazolium based ionic liquid with antidepressant drugs: A physicochemical study	Lavkesh Kumar Singh Tanwar, Srishti Sharma, Kallol K. Ghosh	Chemistry	Colloids and Surfaces A: Physicochemical and Engineering Aspects, 636 , 128159	0927-7757	https://doi.org/10.1016/j.colsurfa.2021.128159
5	Micellization properties of quinolinium based surfactants: 1-alkylquinolinium bromide and 6-hydroxy-1-alkylquinolinium-bromide by fluorimetry, conductivity and surface tension measurements and its parameters	Jyotsna Lakra, Deepti Tikariha Jangde, Birendra Kumar, Kallol K Ghosh	Chemistry	Chemical Thermodynamics and Thermal Analysis, 8 , 100089	2667-3126	https://doi.org/10.1016/j.ctta.2022.100089

6	Facile and scalable synthesis of un-doped, doped and co-doped graphene quantum dots: a comparative study on their impact for environmental applications	Reena Suryawanshi, Ramsingh Kurrey, Sushama Sahu, Kallol K Ghosh	Chemistry	RSC advances, 13 , 701-719	2046-2069	https://doi.org/10.1039/D2RA05275J
7	Sustainable Phenylalanine-Derived SAILS for Solubilization of Polycyclic Aromatic Hydrocarbons	Illia V Kapitanov, Surya M Sudheer, Toshikee Yadav, Kallol K Ghosh, Nicholas Gathergood, Vijai K Gupta, Yevgen Karpichev	Chemistry	Molecules, 28 , 4185	1420-3049	https://doi.org/10.3390/molecules28104185
8	Monitoring the Concentration of Lead in the Industrial Wastewater of Baloda Bazar District	Keshar Verma, Sudheer Bhoi, Yash Parhad, Manas Kanti Deb	Chemistry	Journal of Ravishankar University, 36 , 38-57	0970-5910	10.52228/JRUB.2023-36-1-6
9	Recognition of malathion pesticides in agricultural samples by using α -CD functionalized gold nanoparticles as a colorimetric sensor	Bhuneshwari Sahu, Ramsingh Kurrey, Manas Kanti Deb, Beeta Rani Khalkho, Suryakant Manikpuri	Chemistry	Talanta, 259 , 124526	0039-9140	https://doi.org/10.1016/j.talanta.2023.124526
10	Nitrogen and sulphur co-doped graphene: A robust material for methylene blue removal	Shubhra Sinha, Indrapal Karbhal, Manas Kanti Deb, Anushree Saha, Rajiv Nayan, Ramsingh Kurrey, Shamsh Pervez, Kallol K Ghosh, Santosh Singh Thakur, Manish K Rai, Manmohan L Satnami, Kamlesh Shrivastava	Chemistry	Carbon Trends, 10 , 100248	2667-0569	https://doi.org/10.1016/j.cartre.2023.100248
11	Cationic polystyrene resin bound silver nanocomposites assisted fourier transform infrared spectroscopy for enhanced catalytic reduction of 4-nitrophenol in aqueous medium	Anushree Saha, Ramsingh Kurrey, Santosh Kumar Verma, Manas Kanti Deb	Chemistry	Chemistry, 4 , 1757-1774	2624-8549	https://doi.org/10.3390/chemistry4040114
12	α -Cyclodextrin functionalized silver nanoparticles as colorimetric sensor for micro extraction and trace level detection of chlorpyrifos pesticide in fruits and vegetables	Bhuneshwari Sahu, Ramsingh Kurrey, Beeta Rani Khalkho, Manas Kanti Deb	Chemistry	Colloids and Surfaces A: Physicochemical and Engineering Aspects, 654 , 129947	0927-7757	https://doi.org/10.1016/j.colsurfa.2022.129947

13	Recent advances on analytical methodologies for screening and detection of biophenols and their challenges: A brief review	Ramsingh Kurrey, Anushree Saha, Shubhra Sinha, Yogeshwari Sahu, Madhuri Khute, Bhuneshwari Sahu, Manas Kanti Deb	Chemistry	Results in Chemistry, 4 , 100456	2211-7156	https://doi.org/10.1016/j.rechem.2022.100456
14	Diazotized reagent for spectrophotometric determination of glyphosate pesticide in environmental and agricultural samples	Harshita Sharma, Anushree Saha, Arun Kumar Mishra, Manish Kumar Rai, Manas Kanti Deb	Chemistry	Journal of the Indian Chemical Society, 99 , 100483	0019-4522	https://doi.org/10.1016/j.jics.2022.100483
15	Citrate functionalized gold nanoparticles assisted micro extraction of L-cysteine in milk and water samples using Fourier transform infrared spectroscopy	Beeta Rani Khalkho, Manas Kanti Deb, Ramsingh Kurrey, Bhuneshwari Sahu, Anushree Saha, Tarun Kumar Patle, Ravishankar Chauhan, Kamlesh Shrivastava	Chemistry	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 267 , 120523	1386-1425	https://doi.org/10.1016/j.saa.2021.120523
16	Nitridation of Cr-urea complex into nanocrystalline CrN and its antiferromagnetic magnetostructural transition study	Dadan Singh, Saumya Tamrakar, Kamlesh Shrivastava, Khemchand Dewangan	Chemistry	New Journal of Chemistry, 46 , 20879-20885	1144-0546	https://doi.org/10.1016/j.njc.2024.112668
17.	Analytical approaches on some selected toxic heavy metals in the environment and their socio-environmental impacts: A meticulous review	Alka Patle, Ramsingh Kurrey, Manas Kanti Deb, Tarun Kumar Patle, Deepak Sinha, Kamlesh Shrivastava	Chemistry	Journal of the Indian Chemical Society, 99 , 100545	0019-4522	https://doi.org/10.1016/j.jics.2022.100545
18.	A portable smartphone-assisted digital image fluorimetry for analysis of methiocarb pesticide in vegetables: Nitrogen-doped carbon quantum dots as a sensing probe	Sanyukta Patel, Kamlesh Shrivastava, Deepak Sinha, Indrapal Karbhal, Tarun Kumar Patle	Chemistry	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 299 , 122824	1386-1425	https://doi.org/10.1016/j.saa.2023.122824
19.	Inkjet-printed flexible graphene paper electrode for the electrochemical determination of mercury	Tushar Kant, Kamlesh Shrivastava, Vellaichamy Ganesan	Chemistry	RSC advances, 13 , 17179-17187	2046-2069	https://doi.org/10.1039/D3RA02757K

20.	Simultaneous determination of B1, B3, B6 and C vitamins in green leafy vegetables using reverse phase-high performance liquid chromatography	Tarun Kumar Patle, Kamlesh Shrivastava, Alka Patle, Sanyukta Patel, Neetu Harmukh, Antresh Kumar	Chemistry	Microchemical Journal, 176 , 107249	0026-265X	https://doi.org/10.1016/j.microc.2022.107249
21.	A graphene-printed paper electrode for determination of H ₂ O ₂ in municipal wastewater during the COVID-19 pandemic	Tushar Kant, Kamlesh Shrivastava, Indrapal Karbhal, Sanjay Yadav, Sushama Sahu, Yugal Kishor Mahipal, Vellaichamy Ganesan	Chemistry	New Journal of Chemistry, 46 , 1362-1370	1144-0546	https://doi.org/10.1039/D1NJ05763D
22.	Förster Resonance Energy Transfer between Multicolor Emissive N-Doped Carbon Quantum Dots and Gold Nanorods for the Detection of H ₂ O ₂ , Glucose, Glutathione, and Acetylcholinesterase	Yogyata Chawre, Manmohan L Satnami, Ankita B Kujur, Kallol K Ghosh, Rekha Nagwanshi, Indrapal Karbhal, Shamsh Pervez, Manas K Deb	Chemistry	ACS Applied Nano Materials, 6 , 8046-8058	2574-0970	https://doi.org/10.1021/acsanm.3c01518
23.	β -cyclodextrin stabilized nanoceria for hydrolytic cleavage of paraoxon in aqueous and cationic micellar media	Pinki Miri, Indrapal Karbhal, Manmohan L Satnami, Vinod K Jena, Sanjay Ghosh	Chemistry	ACS Applied Bio Materials, 6 , 1488-1494	2576-6422	https://doi.org/10.1021/acsabm.2c01030
24.	Antibacterial Activity of CdTe/ZnS Quantum Dot- β Lactum Antibiotic Conjugates	Sandeep K Vaishnav, Jyoti Korram, Tikendra K Verma, SK Jadhav, Rekha Nagwanshi, Manmohan L Satnami	Chemistry	Journal of Fluorescence, 34 , 833-846	1053-0509	https://doi.org/10.1007/s10895-023-03316-x
25.	N-doped, silver, and cerium co-doped carbon quantum dots based sensor for detection of Hg ²⁺ and captopril	Lakshita Dewangan, Yogyata Chawre, Jyoti Korram, Indrapal Karbhal, Rekha Nagwanshi, Vishal Jain, Manmohan L Satnami	Chemistry	Microchemical Journal, 182 , 107867	1095-9149	https://doi.org/10.1016/j.microc.2022.107867
26.	Alkaline phosphatase immobilized CdTe/ZnS quantum dots for dual-purpose fluorescent and electrochemical detection of methyl paraoxon	Lakshita Dewangan, Jyoti Korram, Indrapal Karbhal, Rekha Nagwanshi, Kallol K Ghosh, Shamsh Pervez, Manmohan L Satnami	Chemistry	ACS Industrial & Engineering Chemistry Research, 61 , 3636-3646	0888-5885	https://doi.org/10.1021/acs.iecr.1c05065

