

FATIMA MATA NATIONAL COLLEGE

AUTONOMOUS

(Reaccredited with 'A' Grade by NAAC)
Affiliated to University of Kerala



3.4.3 List of papers Chemistry

IQAC INTERNAL QUALITY
ASSURANCE CELL

List of Research Papers in UGC CARE Listed Journals (2014-2019)

Department of Chemistry

Title of paper	Name of the author/s	Name of journal	Year of publication
Cerium(IV) tungstate as eco-friendly Bronsted acid catalyst	Apsara A.P., Anjali S.	Pollution Research	2014
Removal of Mercury(II) Ions from Aqueous Solutions using Chemically Modified Banana Stem: Kinetic and Equilibrium Modeling	Mullassery M.D., Fernandez N.B., Anirudhan T.S.	Separation Science and Technology (Philadelphia)	2014
Synthesis, spectral, and magnetic studies of benzothiazolium tetrachlorocuprate salts: Crystal structure and semiconducting behavior of bis[2-(4-methoxyphenyl)benzothiazolium] tetrachlorocuprate(II)	Sarau Devi A., Ravindran R., Fazil S., Minitha R.	Journal of Coordination Chemistry	2015
Removal of dyes using a composite cation exchanger-acrylamide cerium(IV) phosphomolybdate	Apsara A.P., Beena B.	Indian Journal of Environmental Protection	2015
Adsorptive removal of acid red from aqueous solutions by cationic surfactant-modified bentonite clay	Mullassery M.D., Fernandez N.B., Anirudhan T.S.	Desalination and Water Treatment	2015
Microwave- assisted green synthesis of acrylamide cyclodextrin-grafted silylated bentonite for the controlled delivery of tetracycline hydrochloride	Mullassery M.D., Fernandez N.B., Surya R., Thomas D.	Sustainable Chemistry and Pharmacy	2018
A green approach for the synthesis of drug delivery system, mesoporous silica grafted acrylamide β -cyclodextrin composite, for the controlled release of curcumin	Mullassery M.D., Fernandez N.B., Surya R., Thomas D.	Asian Journal of Pharmaceutical and Clinical Research	2018
Characterization of biochars from a plant biomass and its effect on lead sorption capacity	Fernandez N.B., Mullassery M.D., Thomas D., Surya R., Jelen Das Y.	Desalination and Water Treatment	2018
A novel voltammetric sensor for morphine detection based on electrochemically synthesized poly (p-aminobenzenesulfonic acid)/reduced graphene oxide	Abraham P., Renjini S., Mary T.E.N., Kumary V.A., Chithra P.G.	AIP Conference Proceedings	2019



composite			
A novel heterogeneous catalyst based on reduced graphene oxide supported copper coordinated amino acid " A platform for morphine sensing	Kumary V.A., Abraham P., S R., Swamy B.E.K., Nancy T.E.M., Sreevalsan A.	Journal of Electroanalytical Chemistry	2019
Synthesis and characterization of a clay-alginate nanocomposite for the controlled release of 5-Flurouracil	Surya R., Mullassery M.D., Fernandez N.B., Thomas D.	Journal of Science: Advanced Materials and Devices	2019
Synergistic electrocatalytic effect of graphene / nickel hydroxide composite for the simultaneous electrochemical determination of ascorbic acid, dopamine and uric acid	Dr Mary Nancy T.E.	Electrochimica Acta	2014
Removal of Mercury (II) ions from Aqueous Solutions Using Chemically Modified Banana Stem: Kinetic and equilibrium modeling.	Dr Manohar D. Mullassery & Dr. Noeline B. Fernandez	Separation Science and Technology	2014
Solar graphene modified glassy carbon electrode for the voltammetric resolution and detection of dopamine, ascorbic acid and uric acid	Dr Mary Nancy T.E.	Journal of Electroanalytical Chemistry	2014
NiO.1CoO.9Fe ₂ O ₄ - based electrochemical sensor for the detection of paracetamol	Dr Mary Nancy T.E.	Journal of Solid State Electrochemistry	2014
Title of paper	Name of the author/s	Name of journal	Year of publication
Iron availability affects phosphate deficiency-mediated responses, and evidence of cross-talk with auxin and zinc in arabidopsis	Rai V., Sanagala R., Sinilal B., Yadav S., Sarkar A.K., Dantu P.K., Jain A.	Plant and Cell Physiology	2014
Phylogenetic analysis and evolution of morphological characters in the genus Jasminum L. (Oleaceae) in India	Jeyarani J.N., Yohannan R., Vijayavalli D., Dwivedi M.D., Pandey A.K.	Journal of Genetics	2018
Fabrication of innocuous gold nanoparticles using plant cells in culture	Bhaskaran S., Sharma N., Tiwari P., Singh S.R., Sahi S.V.	Scientific Reports	2019
Evaluating Genetic Diversity Within Genus Jasminum L. (Oleaceae) Using Intersimple Sequence Repeats (ISSR) Marker	Yohanan R., Jeyarani N.J., Devipriya V., Rather S.A., Kasana S., Thakur J., Dwivedi	Proceedings of the National Academy of Sciences India	2019



	M.D., Pandey A.K.	Section B - Biological Sciences	
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Head of the Department



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Principal
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