

# Mohana Krishna Reddy Mudiam

## List of Publications by Year in descending order

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73  
papers

2,113  
citations

185998

28  
h-index

253896

43  
g-index

75  
all docs

75  
docs citations

75  
times ranked

3264  
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding metabolic perturbations in palm wine during storage using multi-platform metabolomics. <i>LWT - Food Science and Technology</i> , 2022, 155, 112889.	2.5	3
2	Development and evaluation of a multi-class analytical method based on solid-phase extraction combined with liquid chromatography-tandem mass spectrometry for the analysis of pharmaceuticals and personal care products in urban wastewater samples. <i>Separation Science Plus</i> , 2022, 5, 105-119.	0.3	3
3	<i>Bombax ceiba</i> calyx displays antihyperglycemic activity via improving insulin secretion and sensitivity: Identification of bioactive phytometabolomes by UPLC-QToF-MS/MS. <i>Journal of Food Science</i> , 2022, 87, 1865-1881.	1.5	4
4	Serum and urine metabolomics analysis reveals the role of altered metabolites in patulin-induced nephrotoxicity. <i>Food Research International</i> , 2022, 156, 111177.	2.9	6
5	Development of a multiclass method to quantify phthalates, pharmaceuticals, and personal care products in river water using ultra-high performance liquid chromatography coupled with quadrupole hybrid Orbitrap mass spectrometry. <i>Analytical Science Advances</i> , 2021, 2, 373-386.	1.2	4
6	Phytometabolomic analysis of boiled rhizome of <i>Nymphaea nouchali</i> (Burm. f.) using UPLC-Q-TOF-MSE, LC-QqQ-MS & GC-MS and evaluation of antihyperglycemic and antioxidant activities. <i>Food Chemistry</i> , 2021, 342, 128313.	4.2	13
7	Using bioanalytical tools to detect and track organic micropollutants in the Ganga River near two major cities. <i>Journal of Hazardous Materials</i> , 2021, 404, 124135.	6.5	6
8	Quantitative determination of phenolic antioxidants in fruit juices by GC-MS/MS using automated injector port silylation after QuEChERS extraction. <i>Microchemical Journal</i> , 2021, 160, 105705.	2.3	14
9	Development of an analytical method for the quantitative determination of multi-class nutrients in different food matrices by solid-phase extraction and liquid chromatography-tandem mass spectrometry using design of experiments. <i>Food Chemistry</i> , 2021, 341, 128173.	4.2	20
10	sp 3 -Rich Glycyrrhetic Acid Analogues Using Late-Stage Functionalization as Potential Breast Tumor Regressing Agents. <i>ChemMedChem</i> , 2020, 15, 1826-1833.	1.6	3
11	Understanding the metabolic perturbations in <i>Carica papaya</i> Linn. due to different ripening practices/agents using gas chromatography-mass spectrometry based metabolomics. <i>Analytical Science Advances</i> , 2020, 1, 183-193.	1.2	7
12	<i>Bombax ceiba</i> (Linn.) calyxes ameliorate methylglyoxal-induced oxidative stress via modulation of RAGE expression: identification of active phytometabolites by GC-MS analysis. <i>Food and Function</i> , 2020, 11, 5486-5497.	2.1	9
13	Estimation of measurement uncertainty for the quantitative analysis of pharmaceutical residues in river water using solid-phase extraction coupled with injector port silylation-gas chromatography-tandem mass spectrometry. <i>Microchemical Journal</i> , 2020, 159, 105560.	2.3	11
14	Synthesis and application of molecularly imprinted sol-gels coupled with ultra high performance liquid chromatography for selective extraction and analysis of dyes from spices. <i>Separation Science Plus</i> , 2019, 2, 160-169.	0.3	2
15	Accelerated and scarless wound repair by a multicomponent hydrogel through simultaneous activation of multiple pathways. <i>Drug Delivery and Translational Research</i> , 2019, 9, 1143-1158.	3.0	27
16	Evaluating the metabolic perturbations in <i>Mangifera indica</i> (mango) ripened with various ripening agents/practices through gas chromatography-mass spectrometry based metabolomics. <i>Journal of Separation Science</i> , 2019, 42, 3086-3094.	1.3	12
17	Saliva and urine metabolic profiling reveals altered amino acid and energy metabolism in male farmers exposed to pesticides in Madhya Pradesh State, India. <i>Chemosphere</i> , 2019, 226, 636-644.	4.2	26
18	Silver nanoparticles induced alterations in multiple cellular targets, which are critical for drug susceptibilities and pathogenicity in fungal pathogen ( <i>Candida albicans</i> ). <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 2647-2663.	3.3	111

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19	A Rapid Method for the Quantitative Determination of 34 Pesticides in Nonalcoholic Carbonated Beverages Using Liquid-Liquid Extraction Coupled to Dispersive Solid-Phase Cleanup Followed by Gas Chromatography with Tandem Mass Spectrometry. <i>Journal of AOAC INTERNATIONAL</i> , 2017, 100, 624-630.	0.7	4
20	Docosahexaenoic acid up-regulates both PI3K/AKT-dependent and FABP7-PPAR $\gamma$ <sup>3</sup> interaction and MKP3 that enhance GFAP in developing rat brain astrocytes. <i>Journal of Neurochemistry</i> , 2017, 140, 96-113.	2.1	38
21	Simultaneous Biodegradation of Polyaromatic Hydrocarbons by a <i>Stenotrophomonas</i> sp: Characterization of <i>nid</i> Genes and Effect of Surfactants on Degradation. <i>Indian Journal of Microbiology</i> , 2017, 57, 60-67.	1.5	24
22	Sol-gel approach for extracting highly versatile aspirin and its metabolites using MISPE followed by GC-MS/MS analysis. <i>Bioanalysis</i> , 2016, 8, 795-805.	0.6	0
23	Nucleation temperature-controlled synthesis and <i>in vitro</i> toxicity evaluation of l-cysteine-capped Mn:ZnS quantum dots for intracellular imaging. <i>Luminescence</i> , 2016, 31, 341-347.	1.5	10
24	Physico-Chemical Condition Optimization during Biosynthesis lead to development of Improved and Catalytically Efficient Gold Nano Particles. <i>Scientific Reports</i> , 2016, 6, 27575.	1.6	105
25	Metabolomic Analysis Provides Insights on Paraquat-Induced Parkinson-Like Symptoms in <i>Drosophila melanogaster</i> . <i>Molecular Neurobiology</i> , 2016, 53, 254-269.	1.9	48
26	Comparative Evaluation of QuEChERS Method Coupled to DLLME Extraction for the Analysis of Multiresidue Pesticides in Vegetables and Fruits by Gas Chromatography-Mass Spectrometry. <i>Food Analytical Methods</i> , 2016, 9, 2656-2669.	1.3	50
27	Selective solid-phase extraction using molecularly imprinted polymer as a sorbent for the analysis of fenarimol in food samples. <i>Food Chemistry</i> , 2016, 199, 870-875.	4.2	50
28	Assessing hazardous risks of indoor airborne polycyclic aromatic hydrocarbons in the kitchen and its association with lung functions and urinary PAH metabolites in kitchen workers. <i>Clinica Chimica Acta</i> , 2016, 452, 204-213.	0.5	54
29	Prenatal Exposure of Cypermethrin Induces Similar Alterations in Xenobiotic-Metabolizing Cytochrome P450s and Rate-Limiting Enzymes of Neurotransmitter Synthesis in Brain Regions of Rat Offsprings During Postnatal Development. <i>Molecular Neurobiology</i> , 2016, 53, 3670-3689.	1.9	11
30	Heat and PAHs Emissions in Indoor Kitchen Air and Its Impact on Kidney Dysfunctions among Kitchen Workers in Lucknow, North India. <i>PLoS ONE</i> , 2016, 11, e0148641.	1.1	43
31	Identifying the metabolic perturbations in earthworm induced by cypermethrin using gas chromatography-mass spectrometry based metabolomics. <i>Scientific Reports</i> , 2015, 5, 15674.	1.6	29
32	Metabolomics reveals the perturbations in the metabolome of <i>Caenorhabditis elegans</i> exposed to titanium dioxide nanoparticles. <i>Nanotoxicology</i> , 2015, 9, 994-1004.	1.6	85
33	Application of nano-sized multi-template imprinted polymer for simultaneous extraction of polycyclic aromatic hydrocarbon metabolites in urine samples followed by ultra-high performance liquid chromatographic analysis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2015, 985, 110-118.	1.2	32
34	Imprinted nanospheres based on precipitation polymerization for the simultaneous extraction of six urinary benzene metabolites from urine followed by injector port silylation and gas chromatography-tandem mass spectrometric analysis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2015, 1001, 66-74.	1.2	16
35	Optical sensing of 3-phenoxybenzoic acid as a pyrethroid pesticides exposure marker by surface imprinting polymer capped on manganese-doped zinc sulfide quantum dots. <i>Analytical Chemistry Research</i> , 2015, 5, 21-27.	2.0	10
36	Occupational health hazards of trichloroethylene among workers in relation to altered mRNA expression of cell cycle regulating genes (p53, p21, bax and bcl-2) and PPARA. <i>Toxicology Reports</i> , 2015, 2, 748-757.	1.6	8

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37	Activity-Guided Chemo Toxic Profiling of <i>Cassia occidentalis</i> (CO) Seeds: Detection of Toxic Compounds in Body Fluids of CO-Exposed Patients and Experimental Rats. <i>Chemical Research in Toxicology</i> , 2015, 28, 1120-1132.	1.7	39
38	Determination of Urinary PAH Metabolites Using DLLME Hyphenated to Injector Port Silylation and GC-MS-MS. <i>Journal of Analytical Toxicology</i> , 2015, 39, 365-373.	1.7	35
39	Ultrasound-assisted dispersive liquid-liquid microextraction followed by GC-MS/MS analysis for the determination of valproic acid in urine samples. <i>Bioanalysis</i> , 2015, 7, 2451-2459.	0.6	12
40	Superoxide mediated photomodification and DNA damage induced apoptosis by Benz(a)anthracene via mitochondrial mediated pathway. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2015, 142, 92-102.	1.7	15
41	Determination of 17 Organophosphate Pesticide Residues in Mango by Modified QuEChERS Extraction Method Using GC-NPD/GC-MS and Hazard Index Estimation in Lucknow, India. <i>PLoS ONE</i> , 2014, 9, e96493.	1.1	17
42	Development of ultrasound-assisted dispersive liquid-liquid microextraction-large volume injection-gas chromatography-tandem mass spectrometry method for determination of pyrethroid metabolites in brain of cypermethrin-treated rats. <i>Forensic Toxicology</i> , 2014, 32, 19-29.	1.4	16
43	Molecularly imprinted polymer coupled with dispersive liquid-liquid microextraction and injector port silylation: A novel approach for the determination of 3-phenoxybenzoic acid in complex biological samples using gas chromatography-tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2014, 945-946, 23-30.	1.2	17
44	Application of ultrasound-assisted dispersive liquid-liquid microextraction and automated in-port silylation for the simultaneous determination of phenolic endocrine disruptor chemicals in water samples by gas chromatography-triple quadrupole mass spectrometry. <i>Analytical Methods</i> , 2014, 6, 1802.	1.3	30
45	Identification of Drosophila-Based Endpoints for the Assessment and Understanding of Xenobiotic-Mediated Male Reproductive Adversities. <i>Toxicological Sciences</i> , 2014, 141, 278-291.	1.4	26
46	Isolation and functional analysis of a glycolipid producing <i>Rhodococcus</i> sp. strain IITR03 with potential for degradation of 1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane (DDT). <i>Bioresource Technology</i> , 2014, 167, 398-406.	4.8	40
47	Exposure to endosulfan influences sperm competition in <i>Drosophila melanogaster</i> . <i>Scientific Reports</i> , 2014, 4, 7433.	1.6	14
48	Determination of t,t-muconic acid in urine samples using a molecular imprinted polymer combined with simultaneous ethyl chloroformate derivatization and pre-concentration by dispersive liquid-liquid microextraction. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 341-349.	1.9	38
49	An integrated (nano-bio) technique for degradation of <sup>13</sup> C-HCH contaminated soil. <i>Journal of Hazardous Materials</i> , 2013, 258-259, 35-41.	6.5	79
50	Simultaneous derivatization and preconcentration of parabens in food and other matrices by isobutyl chloroformate and dispersive liquid-liquid microextraction followed by gas chromatographic analysis. <i>Food Chemistry</i> , 2013, 141, 436-443.	4.2	62
51	In matrix derivatization of trichloroethylene metabolites in human plasma with methyl chloroformate and their determination by solid-phase microextraction-gas chromatography-electron capture detector. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2013, 925, 63-69.	1.2	17
52	Polycyclic aromatic hydrocarbons and their quinones modulate the metabolic profile and induce DNA damage in human alveolar and bronchiolar cells. <i>International Journal of Hygiene and Environmental Health</i> , 2013, 216, 553-565.	2.1	53
53	Ultra sound assisted one step rapid derivatization and dispersive liquid-liquid microextraction followed by gas chromatography-mass spectrometric determination of amino acids in complex matrices. <i>Journal of Chromatography A</i> , 2013, 1291, 10-18.	1.8	40
54	Molecularly imprinted SPE combined with dispersive liquid-liquid microextraction for selective analysis of telmisartan in biological and formulation samples. <i>Bioanalysis</i> , 2013, 5, 847-858.	0.6	9

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55	Ultrasound assisted dispersive liquid-liquid microextraction followed by injector port silylation: a novel method for rapid determination of quinine in urine by GC-MS. <i>Bioanalysis</i> , 2013, 5, 2277-2286.	0.6	20
56	Gas Chromatography- Mass Spectrometry Based Metabolomic Approach for Optimization and Toxicity Evaluation of Earthworm Sub-Lethal Responses to Carbofuran. <i>PLoS ONE</i> , 2013, 8, e81077.	1.1	28
57	Cypermethrin Induces Astrocyte Apoptosis by the Disruption of the Autocrine/Paracrine Mode of Epidermal Growth Factor Receptor Signaling. <i>Toxicological Sciences</i> , 2012, 125, 473-487.	1.4	30
58	Development, validation and comparison of two microextraction techniques for the rapid and sensitive determination of pregabalin in urine and pharmaceutical formulations after ethyl chloroformate derivatization followed by gas chromatography-mass spectrometric analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2012, 70, 310-319.	1.4	45
59	Optimization of UA-DLLME by experimental design methodologies for the simultaneous determination of endosulfan and its metabolites in soil and urine samples by GC-MS. <i>Analytical Methods</i> , 2012, 4, 3855.	1.3	22
60	Rapid and simultaneous determination of twenty amino acids in complex biological and food samples by solid-phase microextraction and gas chromatography-mass spectrometry with the aid of experimental design after ethyl chloroformate derivatization. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012, 907, 56-64.	1.2	44
61	Degradation of $\hat{1}^3$ -HCH spiked soil using stabilized Pd/FeO bimetallic nanoparticles: Pathways, kinetics and effect of reaction conditions. <i>Journal of Hazardous Materials</i> , 2012, 237-238, 355-364.	6.5	66
62	Low density solvent based dispersive liquid-liquid microextraction with gas chromatography-electron capture detection for the determination of cypermethrin in tissues and blood of cypermethrin treated rats. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012, 895-896, 65-70.	1.2	24
63	Studies on urban drinking water quality in a tropical zone. <i>Environmental Monitoring and Assessment</i> , 2012, 184, 461-469.	1.3	21
64	$\hat{1}^{\pm}$ , $\hat{1}^2$ -Unsaturated Carbonyl System of Chalcone-Based Derivatives Is Responsible for Broad Inhibition of Proteasomal Activity and Preferential Killing of Human Papilloma Virus (HPV) Positive Cervical Cancer Cells. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 449-456.	2.9	78
65	Production of ROS by Photosensitized Anthracene Under Sunlight and UV-R at Ambient Environmental Intensities. <i>Photochemistry and Photobiology</i> , 2011, 87, 1067-1076.	1.3	24
66	Genotoxicity and apoptosis in <i>Drosophila melanogaster</i> exposed to benzene, toluene and xylene: Attenuation by quercetin and curcumin. <i>Toxicology and Applied Pharmacology</i> , 2011, 253, 14-30.	1.3	52
67	Application of ethyl chloroformate derivatization for solid-phase microextraction-gas chromatography-mass spectrometric determination of bisphenol-A in water and milk samples. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 1695-1701.	1.9	53
68	Isolation and characterization of a <i>Pseudomonas</i> sp. strain IITR01 capable of degrading $\hat{1}^{\pm}$ -endosulfan and endosulfan sulfate. <i>Journal of Applied Microbiology</i> , 2010, 109, 2135-2143.	1.4	47
69	Quantitative Evaluation of Benzene, Toluene, and Xylene in the Larvae of <i>Drosophila melanogaster</i> by Solid-Phase Microextraction/Gas Chromatography/Mass Spectrometry for Potential Use in Toxicological Studies. <i>Journal of AOAC INTERNATIONAL</i> , 2010, 93, 1595-1599.	0.7	5
70	Hematological and biochemical alterations in sprayers occupationally exposed to mixture of pesticides at a mango plantation in Lucknow, India. <i>Toxicological and Environmental Chemistry</i> , 2010, 92, 1919-1928.	0.6	9
71	Quantitative evaluation of benzene, toluene, and xylene in the larvae of <i>Drosophila melanogaster</i> by solid-phase microextraction/gas chromatography/mass spectrometry for potential use in toxicological studies. <i>Journal of AOAC INTERNATIONAL</i> , 2010, 93, 1595-9.	0.7	0
72	Distribution, Sources and Characterization of Polycyclic Aromatic Hydrocarbons in the Sediment of the River Gomti, Lucknow, India. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2009, 83, 449-454.	1.3	25

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73	Anti-apoptotic role of omega-3 fatty acids in developing brain: perinatal hypothyroid rat cerebellum as apoptotic model. International Journal of Developmental Neuroscience, 2009, 27, 377-383.	0.7	60