Mohana Krishna Reddy Mudiam

List of Publications by Year
in descending order

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	Silver nanoparticles induced alterations in multiple cellular targets, which are critical for drug susceptibilities and pathogenicity in fungal pathogen (Candida albicans). International Journal of Nanomedicine, 2018, Volume 13, 2647-2663.	3.3	111
2	Physico-Chemical Condition Optimization during Biosynthesis lead to development of Improved and Catalytically Efficient Gold Nano Particles. Scientific Reports, 2016, 6, 27575.	1.6	105
3	Metabolomics reveals the perturbations in the metabolome ofCaenorhabditis elegansexposed to titanium dioxide nanoparticles. Nanotoxicology, 2015, 9, 994-1004.	1.6	85
4	An integrated (nano-bio) technique for degradation of Î³-HCH contaminated soil. Journal of Hazardous Materials, 2013, 258-259, 35-41.	6.5	79
5	Î±,Î²-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. Journal of Medicinal Chemistry, 2011, 54, 449-456.	2.9	78
6	Degradation of Î³-HCH spiked soil using stabilized Pd/Fe0 bimetallic nanoparticles: Pathways, kinetics and effect of reaction conditions. Journal of Hazardous Materials, 2012, 237-238, 355-364.	6.5	66
7	Simultaneous derivatisation and preconcentration of parabens in food and other matrices by isobutyl chloroformate and dispersive liquidâ€“liquid microextraction followed by gas chromatographic analysis. Food Chemistry, 2013, 141, 436-443.	4.2	62
8	Antiâ€apoptotic role of omegaâ€3â€fatty acids in developing brain: perinatal hypothyroid rat cerebellum as apoptotic model. International Journal of Developmental Neuroscience, 2009, 27, 377-383.	0.7	60
9	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. Clinica Chimica Acta, 2016, 452, 204-213.	0.5	54
10	Application of ethyl chloroformate derivatization for solid-phase microextractionâ€“gas chromatographyâ€“mass spectrometric determination of bisphenol-A in water and milk samples. Analytical and Bioanalytical Chemistry, 2011, 401, 1695-1701.	1.9	53
11	Polycyclic aromatic hydrocarbons and their quinones modulate the metabolic profile and induce DNA damage in human alveolar and bronchiolar cells. International Journal of Hygiene and Environmental Health, 2013, 216, 553-565.	2.1	53
12	Genotoxicity and apoptosis in Drosophila melanogaster exposed to benzene, toluene and xylene: Attenuation by quercetin and curcumin. Toxicology and Applied Pharmacology, 2011, 253, 14-30.	1.3	52
13	Comparative Evaluation of QuEChERS Method Coupled to DLLME Extraction for the Analysis of Multiresidue Pesticides in Vegetables and Fruits by Gas Chromatography-Mass Spectrometry. Food Analytical Methods, 2016, 9, 2656-2669.	1.3	50
14	Selective solid-phase extraction using molecularly imprinted polymer as a sorbent for the analysis of fenarimol in food samples. Food Chemistry, 2016, 199, 870-875.	4.2	50
15	Metabolomic Analysis Provides Insights on Paraquat-Induced Parkinson-Like Symptoms in Drosophila melanogaster. Molecular Neurobiology, 2016, 53, 254-269.	1.9	48
16	Isolation and characterization of a Pseudomonas sp. strain IITR01 capable of degrading Î±-endosulfan and endosulfan sulfate. Journal of Applied Microbiology, 2010, 109, 2135-2143.	1.4	47
17	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 chromatographyâ€“mass spectrometric analysis. Journal of Pharmaceutical and Biomedical Analysis, 2012, 70, 310-319.	1.4	45
18	Rapid and simultaneous determination of twenty amino acids in complex biological and food samples by solid-phase microextraction and gas chromatographyâ€“mass spectrometry with the aid of experimental design after ethyl chloroformate derivatization. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2012, 907, 56-64.	1.2	44

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19	Heat and PAHs Emissions in Indoor Kitchen Air and Its Impact on Kidney Dysfunctions among Kitchen Workers in Lucknow, North India. PLoS ONE, 2016, 11, e0148641.	1.1	43
20	Ultra sound assisted one step rapid derivatization and dispersive liquidâ€“liquid microextraction followed by gas chromatographyâ€“mass spectrometric determination of amino acids in complex matrices. Journal of Chromatography A, 2013, 1291, 10-18.	1.8	40
21	Isolation and functional analysis of a glycolipid producing Rhodococcus sp. strain IITR03 with potential for degradation of 1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane (DDT). Bioresource Technology, 2014, 167, 398-406.	4.8	40
22	Activity-Guided Chemo Toxic Profiling of Cassia occidentalis (CO) Seeds: Detection of Toxic Compounds in Body Fluids of CO-Exposed Patients and Experimental Rats. Chemical Research in Toxicology, 2015, 28, 1120-1132.	1.7	39
23	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 liquidâ€“liquid microextraction. Analytical and Bioanalytical Chemistry, 2013, 405, 341-349.	1.9	38
24	Docosahexaenoic acid upâ€regulates both <scp>PI</scp>3K/<scp>AKT</scp>â€dependent <scp>FABP</scp>7â€“<scp>PPAR</scp>Î³ interaction and <scp>MKP</scp>3 that enhance <scp>GFAP</scp> in developing rat brain astrocytes. Journal of Neurochemistry, 2017, 140, 96-113.	2.1	38
25	Determination of Urinary PAH Metabolites Using DLLME Hyphenated to Injector Port Silylation and GCâ€“MS-MS. Journal of Analytical Toxicology, 2015, 39, 365-373.	1.7	35
26	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. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2015, 985, 110-118.	1.2	32
27	Cypermethrin Induces Astrocyte Apoptosis by the Disruption of the Autocrine/Paracrine Mode of Epidermal Growth Factor Receptor Signaling. Toxicological Sciences, 2012, 125, 473-487.	1.4	30
28	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. Analytical Methods, 2014, 6, 1802.	1.3	30
29	Identifying the metabolic perturbations in earthworm induced by cypermethrin using gas chromatography-mass spectrometry based metabolomics. Scientific Reports, 2015, 5, 15674.	1.6	29
30	Gas Chromatography- Mass Spectrometry Based Metabolomic Approach for Optimization and Toxicity Evaluation of Earthworm Sub-Lethal Responses to Carbofuran. PLoS ONE, 2013, 8, e81077.	1.1	28
31	Accelerated and scarless wound repair by a multicomponent hydrogel through simultaneous activation of multiple pathways. Drug Delivery and Translational Research, 2019, 9, 1143-1158.	3.0	27
32	Identification of Drosophila-Based Endpoints for the Assessment and Understanding of Xenobiotic-Mediated Male Reproductive Adversities. Toxicological Sciences, 2014, 141, 278-291.	1.4	26
33	Saliva and urine metabolic profiling reveals altered amino acid and energy metabolism in male farmers exposed to pesticides in Madhya Pradesh State, India. Chemosphere, 2019, 226, 636-644.	4.2	26
34	Distribution, Sources and Characterization of Polycyclic Aromatic Hydrocarbons in the Sediment of the River Gomti, Lucknow, India. Bulletin of Environmental Contamination and Toxicology, 2009, 83, 449-454.	1.3	25
35	Production of ROS by Photosensitized Anthracene Under Sunlight and UVâ€R at Ambient Environmental Intensities. Photochemistry and Photobiology, 2011, 87, 1067-1076.	1.3	24
36	Low density solvent based dispersive liquidâ€“liquid microextraction with gas chromatographyâ€“electron capture detection for the determination of cypermethrin in tissues and blood of cypermethrin treated rats. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2012, 895-896, 65-70.	1.2	24

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37	Simultaneous Biodegradation of Polyaromatic Hydrocarbons by a Stenotrophomonas sp: Characterization of nid Genes and Effect of Surfactants on Degradation. Indian Journal of Microbiology, 2017, 57, 60-67.	1.5	24
38	Optimization of UA-DLLME by experimental design methodologies for the simultaneous determination of endosulfan and its metabolites in soil and urine samples by GCâ€“MS. Analytical Methods, 2012, 4, 3855.	1.3	22
39	Studies on urban drinking water quality in a tropical zone. Environmental Monitoring and Assessment, 2012, 184, 461-469.	1.3	21
40	Ultrasound assisted dispersive liquidâ€“liquid microextraction followed by injector port silylation: a novel method for rapid determination of quinine in urine by GCâ€“MS. Bioanalysis, 2013, 5, 2277-2286.	0.6	20
41	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. Food Chemistry, 2021, 341, 128173.	4.2	20
42	In matrix derivatization of trichloroethylene metabolites in human plasma with methyl chloroformate and their determination by solid-phase microextractionâ€“gas chromatography-electron capture detector. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2013, 925, 63-69.	1.2	17
43	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. PLoS ONE, 2014, 9, e96493.	1.1	17
44	Molecularly imprinted polymer coupled with dispersive liquidâ€“liquid microextraction and injector port silylation: A novel approach for the determination of 3-phenoxybenzoic acid in complex biological samples using gas chromatographyâ€“tandem mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2014, 945-946, 23-30.	1.2	17
45	Development of ultrasound-assisted dispersive liquidâ€“liquid microextractionâ€“large volume injectionâ€“gas chromatographyâ€“tandem mass spectrometry method for determination of pyrethroid metabolites in brain of cypermethrin-treated rats. Forensic Toxicology, 2014, 32, 19-29.	1.4	16
46	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. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2015, 1001, 66-74.	1.2	16
47	Superoxide mediated photomodification and DNA damage induced apoptosis by Benz(a)anthracene via mitochondrial mediated pathway. Journal of Photochemistry and Photobiology B: Biology, 2015, 142, 92-102.	1.7	15
48	Exposure to endosulfan influences sperm competition in Drosophila melanogaster. Scientific Reports, 2014, 4, 7433.	1.6	14
49	Quantitative determination of phenolic antioxidants in fruit juices by GC-MS/MS using automated injector port silylation after QuEChERS extraction. Microchemical Journal, 2021, 160, 105705.	2.3	14
50	Phytometabolomic analysis of boiled rhizome of Nymphaea nouchali (Burm. f.) using UPLC-Q-TOF-MSE, LC-QqQ-MS & GCâ€“MS and evaluation of antihyperglycemic and antioxidant activities. Food Chemistry, 2021, 342, 128313.	4.2	13
51	Ultrasound-assisted dispersive liquidâ€“liquid microextraction followed by GCâ€“MS/MS analysis for the determination of valproic acid in urine samples. Bioanalysis, 2015, 7, 2451-2459.	0.6	12
52	Evaluating the metabolic perturbations in Mangifera indica (mango) ripened with various ripening agents/practices through gas chromatography â€•mass spectrometry based metabolomics. Journal of Separation Science, 2019, 42, 3086-3094.	1.3	12
53	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. Molecular Neurobiology, 2016, 53, 3670-3689.	1.9	11
54	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. Microchemical Journal, 2020, 159, 105560.	2.3	11

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55	Optical sensing of 3-phenoxybenzoic acid as a pyrethroid pesticides exposure marker by surface imprinting polymer capped on manganese-doped zinc sulfide quantum dots. Analytical Chemistry Research, 2015, 5, 21-27.	2.0	10
56	Nucleation temperatureâ€controlled synthesis and in vitro toxicity evaluation of <scp>l</scp>â€cysteineâ€capped Mn:ZnS quantum dots for intracellular imaging. Luminescence, 2016, 31, 341-347.	1.5	10
57	Hematological and biochemical alterations in sprayers occupationally exposed to mixture of pesticides at a mango plantation in Lucknow, India. Toxicological and Environmental Chemistry, 2010, 92, 1919-1928.	0.6	9
58	Molecularly imprinted SPE combined with dispersive liquidâ€“liquid microextraction for selective analysis of telmisartan in biological and formulation samples. Bioanalysis, 2013, 5, 847-858.	0.6	9
59	Bombax ceiba (Linn.) calyxes ameliorate methylglyoxal-induced oxidative stress via modulation of RAGE expression: identification of active phytometabolites by GC-MS analysis. Food and Function, 2020, 11, 5486-5497.	2.1	9
60	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. Toxicology Reports, 2015, 2, 748-757.	1.6	8
61	Understanding the metabolic perturbations in Carica papaya Linn. due to different ripening practices/agents using gas chromatographyâ€mass spectrometry based metabolomics. Analytical Science Advances, 2020, 1, 183-193.	1.2	7
62	Using bioanalytical tools to detect and track organic micropollutants in the Ganga River near two major cities. Journal of Hazardous Materials, 2021, 404, 124135.	6.5	6
63	Serum and urine metabolomics analysis reveals the role of altered metabolites in patulin-induced nephrotoxicity. Food Research International, 2022, 156, 111177.	2.9	6
64	Quantitative Evaluation of Benzene, Toluene, and Xylene in the Larvae of Drosophila melanogaster by Solid-Phase Microextraction/Gas Chromatography/Mass Spectrometry for Potential Use in Toxicological Studies. Journal of AOAC INTERNATIONAL, 2010, 93, 1595-1599.	0.7	5
65	A Rapid Method for the Quantitative Determination of 34 Pesticides in Nonalcoholic Carbonated Beverages Using Liquidâ€“Liquid Extraction Coupled to Dispersive Solid-Phase Cleanup Followed by Gas Chromatography with Tandem Mass Spectrometry. Journal of AOAC INTERNATIONAL, 2017, 100, 624-630.	0.7	4
66	Development of a multiclass method to quantify phthalates, pharmaceuticals, and personal care products in river water using ultraâ€high performance liquid chromatography coupled with quadrupole hybrid Orbitrap mass spectrometry. Analytical Science Advances, 2021, 2, 373-386.	1.2	4
67	Bombax ceiba calyx displays antihyperglycemic activity via improving insulin secretion and sensitivity: Identification of bioactive phytometabolomes by UPLCâ€QTofâ€MS/MS. Journal of Food Science, 2022, 87, 1865-1881.	1.5	4
68	sp 3 â€Rich Glycyrrhetinic Acid Analogues Using Lateâ€Stage Functionalization as Potential Breast Tumor Regressing Agents. ChemMedChem, 2020, 15, 1826-1833.	1.6	3
69	Understanding metabolic perturbations in palm wine during storage using multi-platform metabolomics. LWT - Food Science and Technology, 2022, 155, 112889.	2.5	3
70	Development and evaluation of a multiâ€class analytical method based on solidâ€phase extraction combined with liquid chromatographyâ€tandem mass spectrometry for the analysis of pharmaceuticals and personal care products in urban wastewater samples. Separation Science Plus, 2022, 5, 105-119.	0.3	3
71	Synthesis and application of molecularly imprinted solâ€gels coupled with ultra high performance liquid chromatography for selective extraction and analysis of dyes from spices. Separation Science Plus, 2019, 2, 160-169.	0.3	2
72	Sol-gel approach for extracting highly versatile aspirin and its metabolites using MISPE followed by GCâ€“MS/MS analysis. Bioanalysis, 2016, 8, 795-805.	0.6	0

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73	Quantitative evaluation of benzene, toluene, and xylene in the larvae of Drosophila melanogaster by solid-phase microextraction/gas chromatography/mass spectrometry for potential use in toxicological studies. Journal of AOAC INTERNATIONAL, 2010, 93, 1595-9.	0.7	0