

Roshan M Borkar

List of Publications by Year in descending order

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50
papers

1,096
citations

471061

17
h-index

433756

31
g-index

50
all docs

50
docs citations

50
times ranked

1822
citing authors

#	ARTICLE	IF	CITATIONS
1	Naringin ameliorates gentamicin-induced nephrotoxicity and associated mitochondrial dysfunction, apoptosis and inflammation in rats: Possible mechanism of nephroprotection. <i>Toxicology and Applied Pharmacology</i> , 2014, 277, 8-20.	1.3	120
2	Garlic Attenuates Cardiac Oxidative Stress via Activation of PI3K/AKT/Nrf2-Keap1 Pathway in Fructose-Fed Diabetic Rat. <i>PLoS ONE</i> , 2014, 9, e94228.	1.1	114
3	Baicalein alleviates doxorubicin-induced cardiotoxicity via suppression of myocardial oxidative stress and apoptosis in mice. <i>Life Sciences</i> , 2016, 144, 8-18.	2.0	102
4	Enhanced oral bioavailability and anticancer efficacy of fisetin by encapsulating as inclusion complex with HP β CD in polymeric nanoparticles. <i>Drug Delivery</i> , 2017, 24, 224-232.	2.5	85
5	Formulation and evaluation of cyclodextrin complexes for improved anticancer activity of repurposed drug: Niclosamide. <i>Carbohydrate Polymers</i> , 2019, 212, 252-259.	5.1	55
6	Avascular Necrosis of Femoral Head: A Metabolomic, Biophysical, Biochemical, Electron Microscopic and Histopathological Characterization. <i>Scientific Reports</i> , 2017, 7, 10721.	1.6	53
7	Identification and characterization of stressed degradation products of metoprolol using LC/Q β ESI μ MS/MS and MS experiments. <i>Biomedical Chromatography</i> , 2012, 26, 720-736.	0.8	38
8	Novel Sulfur Metabolites of Garlic Attenuate Cardiac Hypertrophy and Remodeling through Induction of Na ⁺ /K ⁺ -ATPase Expression. <i>Frontiers in Pharmacology</i> , 2017, 8, 18.	1.6	37
9	IITZ-01, a novel potent lysosomotropic autophagy inhibitor, has single-agent antitumor efficacy in triple-negative breast cancer in vitro and in vivo. <i>Oncogene</i> , 2019, 38, 581-595.	2.6	36
10	Analytical method development and validation of reverse-phase high-performance liquid chromatography (RP-HPLC) method for simultaneous quantifications of quercetin and piperine in dual-drug loaded nanostructured lipid carriers. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 186, 113325.	1.4	35
11	Liquid chromatography/electrospray ionization tandem mass spectrometric study of milnacipran and its stressed degradation products. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 369-374.	0.7	24
12	Lower Serum Vitamin D Metabolite Levels in Relation to Circulating Cytokines/Chemokines and Metabolic Hormones in Pregnant Women with Hypertensive Disorders. <i>Frontiers in Immunology</i> , 2017, 8, 273.	2.2	23
13	Plasma protein binding, pharmacokinetics, tissue distribution and CYP450 biotransformation studies of fidarestat by ultra high performance liquid chromatography μ high resolution mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 102, 386-399.	1.4	22
14	Development and validation of liquid chromatography μ mass spectrometric method for simultaneous determination of moxifloxacin and ketorolac in rat plasma: application to pharmacokinetic study. <i>Biomedical Chromatography</i> , 2012, 26, 1341-1347.	0.8	21
15	Characterization of degradation products of Ivabradine by LC μ MS/MS: a typical case of exhibition of different degradation behaviour in HCl and H ₂ SO ₄ acid hydrolysis. <i>Journal of Mass Spectrometry</i> , 2015, 50, 344-353.	0.7	21
16	Systems pharmacology μ based integration of human and mouse data for drug repurposing to treat thoracic aneurysms. <i>JCI Insight</i> , 2019, 4, .	2.3	21
17	<i>In vivo</i> metabolic investigation of moxifloxacin using liquid chromatography/electrospray ionization tandem mass spectrometry in combination with online hydrogen/deuterium exchange experiments. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 1817-1831.	0.7	20
18	Lower Vitamin D Metabolites Levels Were Associated With Increased Coronary Artery Diseases in Type 2 Diabetes Patients in India. <i>Scientific Reports</i> , 2016, 6, 37593.	1.6	20

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19	Characterization of forced degradation products of ketorolac tromethamine using LC/ESI/Q/TOF/MS/MS and <i>in silico</i> toxicity prediction. Journal of Mass Spectrometry, 2014, 49, 380-391.	0.7	16
20	Levels of parabens and bisphenols in personal care products and urinary concentrations in Indian young adult women: Implications for human exposure and health risk assessment. Chemosphere, 2022, 297, 134028.	4.2	16
21	Identification of forced degradation products of tamsulosin using liquid chromatography/electrospray ionization tandem mass spectrometry. Journal of Pharmaceutical and Biomedical Analysis, 2014, 88, 245-255.	1.4	14
22	Identification and structural characterization of the stress degradation products of omeprazole using Q-TOF-LC-ESI-MS/MS and NMR experiments: evaluation of the toxicity of the degradation products. New Journal of Chemistry, 2019, 43, 7294-7306.	1.4	13
23	Isolation and structural characterization of degradation products of afatinib dimaleate by LC-Q-TOF/MS/MS and NMR: cytotoxicity evaluation of afatinib and isolated degradation products. Journal of Pharmaceutical and Biomedical Analysis, 2019, 166, 139-146.	1.4	13
24	Identification and structural characterization of <i>in vivo</i> metabolites of ketorolac using liquid chromatography electrospray ionization tandem mass spectrometry (LC/ESI-MS/MS). Journal of Mass Spectrometry, 2012, 47, 919-931.	0.7	12
25	Identification and characterization of stressed degradation products of rabeprazole using LC-ESI/MS/MS and ¹ H-NMR experiments: <i>in vitro</i> toxicity evaluation of major degradation products. RSC Advances, 2016, 6, 10719-10735.	1.7	12
26	Liquid chromatography electrospray ionization tandem mass spectrometry study of nilutamide and its stress degradation products: <i>in silico</i> toxicity prediction of degradation products. Biomedical Chromatography, 2014, 28, 788-793.	0.8	11
27	Identification and structural characterization of <i>in vivo</i> metabolites of balofloxacin in rat plasma, urine and feces samples using Q-TOF/LC/ESI/MS/MS : <i>In silico</i> toxicity studies. Journal of Pharmaceutical and Biomedical Analysis, 2018, 159, 200-211.	1.4	11
28	Quantitative Application to a Polypill by the Development of Stability Indicating LC Method for the Simultaneous Estimation of Aspirin, Atorvastatin, Atenolol and Losartan Potassium. American Journal of Analytical Chemistry, 2010, 01, 59-69.	0.3	11
29	Extraction of small molecule from human plasma by prototyping 3D printed sorbent through extruded filament for LC-MS/MS analysis. Analytica Chimica Acta, 2021, 1187, 339142.	2.6	11
30	Identification of leads for antiproliferative activity on MDA-MB-435 human breast cancer cells through pharmacophore and CYP1A1-mediated metabolism. European Journal of Medicinal Chemistry, 2016, 115, 82-93.	2.6	10
31	Forced degradation studies of lansoprazole using LC-ESI HRMS and ¹ H-NMR experiments: <i>in vitro</i> toxicity evaluation of major degradation products. Journal of Mass Spectrometry, 2017, 52, 459-471.	0.7	10
32	Identification and characterization of stress degradation products of sumatriptan succinate by using LC/Q-TOF-ESI-MS/MS and NMR: Toxicity evaluation of degradation products. Journal of Mass Spectrometry, 2018, 53, 963-975.	0.7	10
33	Estimation of parabens and bisphenols in maternal products and urinary concentrations in Indian pregnant women: daily intake and health risk assessment. Environmental Science and Pollution Research, 2022, 29, 21642-21655.	2.7	10
34	Vitamin D Supplementation Modulates Platelet-Mediated Inflammation in Subjects With Type 2 Diabetes: A Randomized, Double-Blind, Placebo-Controlled Trial. Frontiers in Immunology, 2022, 13, .	2.2	10
35	An evaluation of the CYP2D6 and CYP3A4 inhibition potential of metoprolol metabolites and their contribution to drug-drug and drug-herb interaction by LC-ESI/MS/MS. Biomedical Chromatography, 2016, 30, 1556-1572.	0.8	8
36	Analytical developments of <i>p</i> -hydroxy prenylamine reference material for dope control research: Characterization and purity assessment. Drug Testing and Analysis, 2022, 14, 224-232.	1.6	8

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37	In Vitro and In Vivo Evaluations of Berberine-Loaded Microparticles Filled In-House 3D Printed Hollow Capsular Device for Improved Oral Bioavailability. <i>AAPS PharmSciTech</i> , 2022, 23, 89.	1.5	7
38	Study of Forced Degradation Behaviour of Brinzolamide Using LC-ESI-Q-TOF and In Silico Toxicity Prediction. <i>Chromatographia</i> , 2016, 79, 1293-1308.	0.7	6
39	RP-HPLC SEPARATION METHOD FOR INDIVIDUAL COMPONENTS OF POLYCAP IN PRESENCE OF THEIR DEGRADATION/INTERACTION PRODUCTS. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2012, 35, 662-676.	0.5	5
40	Synthesis, Characterizations, and Use of O-Stearoyl Mannose Ligand-Engineered Lipid Nanoarchitectonics for Alveolar Macrophage Targeting. <i>Assay and Drug Development Technologies</i> , 2020, 18, 249-260.	0.6	5
41	Transporter-mediated drug-drug interactions: advancement in models, analytical tools, and regulatory perspective. <i>Drug Metabolism Reviews</i> , 2021, 53, 285-320.	1.5	5
42	Determination of bisphenols and parabens in cow urine distillate from India: implication of human exposure and risk assessment. <i>Environmental Science and Pollution Research</i> , 2022, 29, 52507-52519.	2.7	4
43	In vivo metabolic investigation of silodosin using UHPLC-QTOF-MS/MS and in silico toxicological screening of its metabolites. <i>Journal of Mass Spectrometry</i> , 2016, 51, 867-882.	0.7	3
44	Stress Degradation Behavior of a Polypill and Development of Stability Indicating UHPLC Method for the Simultaneous Estimation of Aspirin, Atorvastatin, Ramipril and Metoprolol Succinate. <i>American Journal of Analytical Chemistry</i> , 2011, 02, 401-410.	0.3	3
45	Implications of endocrine-disrupting chemicals on polycystic ovarian syndrome: A comprehensive review. <i>Environmental Science and Pollution Research</i> , 2022, 29, 58484-58513.	2.7	2
46	Stress degradation study of bortezomib: effect of co-solvent, isolation and characterization of degradation products by UHPLC-Q-TOF-MS/MS and NMR and evaluation of the toxicity of the degradation products. <i>New Journal of Chemistry</i> , 2021, 45, 8178-8191.	1.4	1
47	Development and validation of UPLC-MS/MS method for in vitro quantitative analysis of pyrazinamide in lipid core-shell nanoarchitectonics for improved metabolic stability. <i>Acta Chromatographica</i> , 2021, , .	0.7	1
48	A sensitive UPLC/ESI/MS/MS method for concomitant quantification of active plant constituent combinations in rat plasma after single oral administration. <i>Analytical Methods</i> , 2022, 14, 834-842.	1.3	1
49	Identification and characterization of in vitro and in vivo fidarestat metabolites: Toxicity and efficacy evaluation of metabolites. <i>Journal of Mass Spectrometry</i> , 2021, 56, e4694.	0.7	0
50	A validated chiral chromatographic method for the enantiomeric separation of acalabrutinib. <i>Chirality</i> , 0, , .	1.3	0