

Nicholas E Manicke

List of Publications by Year in descending order

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52
papers

4,588
citations

136950

32
h-index

175258

52
g-index

53
all docs

53
docs citations

53
times ranked

2964
citing authors

#	ARTICLE	IF	CITATIONS
1	Development, Characterization, and Application of Paper Spray Ionization. <i>Analytical Chemistry</i> , 2010, 82, 2463-2471.	6.5	599
2	Desorption electrospray ionization mass spectrometry: Imaging drugs and metabolites in tissues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 18120-18125.	7.1	400
3	Latent Fingerprint Chemical Imaging by Mass Spectrometry. <i>Science</i> , 2008, 321, 805-805.	12.6	353
4	Rapid, Direct Analysis of Cholesterol by Charge Labeling in Reactive Desorption Electrospray Ionization. <i>Analytical Chemistry</i> , 2009, 81, 7618-7624.	6.5	218
5	Direct Analysis of Biological Tissue by Paper Spray Mass Spectrometry. <i>Analytical Chemistry</i> , 2011, 83, 1197-1201.	6.5	216
6	Silica Coated Paper Substrate for Paper-Spray Analysis of Therapeutic Drugs in Dried Blood Spots. <i>Analytical Chemistry</i> , 2012, 84, 931-938.	6.5	180
7	Paper spray ionization devices for direct, biomedical analysis using mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2012, 312, 201-207.	1.5	171
8	Assessment of paper spray ionization for quantitation of pharmaceuticals in blood spots. <i>International Journal of Mass Spectrometry</i> , 2011, 300, 123-129.	1.5	164
9	Paper Spray and Extraction Spray Mass Spectrometry for the Direct and Simultaneous Quantification of Eight Drugs of Abuse in Whole Blood. <i>Analytical Chemistry</i> , 2014, 86, 7712-7718.	6.5	161
10	Desorption electrospray ionization (DESI) mass spectrometry and tandem mass spectrometry (MS/MS) of phospholipids and sphingolipids: Ionization, adduct formation, and fragmentation. <i>Journal of the American Society for Mass Spectrometry</i> , 2008, 19, 531-543.	2.8	160
11	Mass spectrometric imaging of lipids using desorption electrospray ionization. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009, 877, 2883-2889.	2.3	133
12	Rapid analysis of whole blood by paper spray mass spectrometry for point-of-care therapeutic drug monitoring. <i>Analyst, The</i> , 2012, 137, 2344.	3.5	131
13	Lipid Profiles of Canine Invasive Transitional Cell Carcinoma of the Urinary Bladder and Adjacent Normal Tissue by Desorption Electrospray Ionization Imaging Mass Spectrometry. <i>Analytical Chemistry</i> , 2009, 81, 8758-8764.	6.5	119
14	Imaging of Lipids in Atheroma by Desorption Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2009, 81, 8702-8707.	6.5	112
15	New ionization methods and miniature mass spectrometers for biomedicine: DESI imaging for cancer diagnostics and paper spray ionization for therapeutic drug monitoring. <i>Faraday Discussions</i> , 2011, 149, 247-267.	3.2	110
16	Development of a Paper Spray Mass Spectrometry Cartridge with Integrated Solid Phase Extraction for Bioanalysis. <i>Analytical Chemistry</i> , 2015, 87, 6212-6219.	6.5	97
17	Molecular imaging of adrenal gland by desorption electrospray ionization mass spectrometry. <i>Analyst, The</i> , 2010, 135, 28-32.	3.5	89
18	Direct Quantitative Analysis of Nicotine Alkaloids from Biofluid Samples using Paper Spray Mass Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 11540-11544.	6.5	78

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19	Direct and quantitative analysis of underivatized acylcarnitines in serum and whole blood using paper spray mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 1389-1397.	3.7	77
20	Analysis of biofluids by paper spray MS: advances and challenges. <i>Bioanalysis</i> , 2016, 8, 589-606.	1.5	74
21	Rapid measurement of tacrolimus in whole blood by paper spray-tandem mass spectrometry (PS-MS/MS). <i>Clinica Chimica Acta</i> , 2015, 441, 99-104.	1.1	73
22	High throughput paper spray mass spectrometry analysis. <i>Clinica Chimica Acta</i> , 2013, 420, 28-33.	1.1	70
23	Paper spray ionization: Applications and perspectives. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 118, 722-730.	11.4	70
24	Forensic Sampling and Analysis from a Single Substrate: Surface-Enhanced Raman Spectroscopy Followed by Paper Spray Mass Spectrometry. <i>Analytical Chemistry</i> , 2017, 89, 10973-10979.	6.5	68
25	Detection of chemical warfare agent simulants and hydrolysis products in biological samples by paper spray mass spectrometry. <i>Analyst, The</i> , 2017, 142, 1442-1451.	3.5	62
26	Ionization Suppression and Recovery in Direct Biofluid Analysis Using Paper Spray Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 726-734.	2.8	58
27	Toxicological Drug Screening using Paper Spray High-Resolution Tandem Mass Spectrometry (HR-MS/MS). <i>Journal of Analytical Toxicology</i> , 2018, 42, 300-310.	2.8	53
28	Miniaturization of Mass Spectrometry Analysis Systems. <i>Journal of the Association for Laboratory Automation</i> , 2010, 15, 433-439.	2.8	51
29	Separation of Opiate Isomers Using Electrospray Ionization and Paper Spray Coupled to High-Field Asymmetric Waveform Ion Mobility Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 701-705.	2.8	46
30	Targeted Protein Detection Using an All-in-One Mass Spectrometry Cartridge. <i>Journal of the American Chemical Society</i> , 2017, 139, 10996-10999.	13.7	43
31	Rapid Measurement of Cyclosporine and Sirolimus in Whole Blood by Paper Spray Tandem Mass Spectrometry. <i>Clinical Chemistry</i> , 2016, 62, 295-297.	3.2	41
32	Drug screening method development for paper spray coupled to a triple quadrupole mass spectrometer. <i>Analytical Methods</i> , 2017, 9, 5037-5043.	2.7	35
33	Direct Analysis of Aerosolized Chemical Warfare Simulants Captured on a Modified Glass-Based Substrate by Paper-Spray Ionization. <i>Analytical Chemistry</i> , 2017, 89, 10866-10872.	6.5	35
34	The impacts of paper properties on matrix effects during paper spray mass spectrometry analysis of prescription drugs, fentanyl and synthetic cannabinoids. <i>Forensic Chemistry</i> , 2018, 11, 15-22.	2.8	31
35	Enhancing Nonfouling and Sensitivity of Surface-Enhanced Raman Scattering Substrates for Potent Drug Analysis in Blood Plasma via Fabrication of a Flexible Plasmonic Patch. <i>Analytical Chemistry</i> , 2021, 93, 2578-2588.	6.5	30
36	Development of a prototype blood fractionation cartridge for plasma analysis by paper spray mass spectrometry. <i>Clinical Mass Spectrometry</i> , 2016, 2, 18-24.	1.9	26

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37	Direct soil analysis by paper spray mass spectrometry: Detection of drugs and chemical warfare agent hydrolysis products. <i>Forensic Chemistry</i> , 2020, 17, 100206.	2.8	26
38	Rapid prototyping using 3D printing in bioanalytical research. <i>Bioanalysis</i> , 2017, 9, 329-331.	1.5	23
39	Detection of Protein Toxin Simulants from Contaminated Surfaces by Paper Spray Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1406-1415.	2.8	16
40	Simultaneous quantitation of five triazole anti-fungal agents by paper spray-mass spectrometry. <i>Clinical Chemistry and Laboratory Medicine</i> , 2020, 58, 836-846.	2.3	16
41	Pressure-Sensitive Adhesive Combined with Paper Spray Mass Spectrometry for Low-Cost Collection and Analysis of Drug Residues. <i>Analytical Chemistry</i> , 2021, 93, 13467-13474.	6.5	12
42	Female Blow Flies As Vertebrate Resource Indicators. <i>Scientific Reports</i> , 2019, 9, 10594.	3.3	10
43	Optimization of electromagnetic hot spots in surface-enhanced Raman scattering substrates for an ultrasensitive drug assay of emergency department patients' plasma. <i>Analyst, The</i> , 2020, 145, 7662-7672.	3.5	10
44	Using Sesame Seed Oil to Preserve and Preconcentrate Cannabinoids for Paper Spray Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 675-684.	2.8	8
45	Chemical Assay for the Detection of Vertebrate Fecal Metabolites in Adult Blow Flies (Diptera: Tj ETQq1 1 0.784314 µgBT / Overlock 1	1.4	6
46	A statistical approach to optimizing paper spray mass spectrometry parameters. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8601.	1.5	6
47	Structural elucidation of two Congo red derivatives on dyed historical objects indicative of formaldehyde exposure and the potential for chemical fading. <i>Dyes and Pigments</i> , 2022, 201, 110173.	3.7	6
48	Insects as Chemical Sensors: Detection of Chemical Warfare Agent Simulants and Hydrolysis Products in the Blow Fly Using LC-MS/MS. <i>Environmental Science & Technology</i> , 2022, 56, 3535-3543.	10.0	5
49	Development and validation of a paper spray mass spectrometry method for the rapid quantitation of remdesivir and its active metabolite, GS-441524, in human plasma. <i>Journal of Mass Spectrometry and Advances in the Clinical Lab</i> , 2022, 25, 27-35.	2.4	4
50	Simultaneous optimization of paper spray substrates and solvents for hydrophilic and hydrophobic molecules. <i>International Journal of Mass Spectrometry</i> , 2021, 470, 116705.	1.5	3
51	New Mass Spec Method for Blood and Urine Screening. <i>Genetic Engineering and Biotechnology News</i> , 2014, 34, 20-21.	0.1	2
52	Using sesame seed oil to preserve and concentrate cannabinoids for paper spray mass spectrometry. <i>Comprehensive Analytical Chemistry</i> , 2020, 90, 367-395.	1.3	1