

# Nicholas E Manicke

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

4,588  
citations

136740

32  
h-index

174990

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.  | 3.2 | 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.  | 3.3 | 400       |
| 3  | Latent Fingerprint Chemical Imaging by Mass Spectrometry. <i>Science</i> , 2008, 321, 805-805.  | 6.0 | 353       |
| 4  | Rapid, Direct Analysis of Cholesterol by Charge Labeling in Reactive Desorption Electrospray Ionization. <i>Analytical Chemistry</i> , 2009, 81, 7618-7624.   | 3.2 | 218       |
| 5  | Direct Analysis of Biological Tissue by Paper Spray Mass Spectrometry. <i>Analytical Chemistry</i> , 2011, 83, 1197-1201.   | 3.2 | 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.  | 3.2 | 180       |
| 7  | Paper spray ionization devices for direct, biomedical analysis using mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2012, 312, 201-207.   | 0.7 | 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.  | 0.7 | 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.  | 3.2 | 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. | 1.2 | 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.  | 1.2 | 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.  | 1.7 | 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.                                     | 3.2 | 119       |
| 14 | Imaging of Lipids in Atheroma by Desorption Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2009, 81, 8702-8707.   | 3.2 | 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.   | 1.6 | 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.   | 3.2 | 97        |
| 17 | Molecular imaging of adrenal gland by desorption electrospray ionization mass spectrometry. <i>Analyst, The</i> , 2010, 135, 28-32.   | 1.7 | 89        |
| 18 | Direct Quantitative Analysis of Nicotine Alkaloids from Biofluid Samples using Paper Spray Mass Spectrometry. <i>Analytical Chemistry</i> , 2013, 85, 11540-11544.  | 3.2 | 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.                              | 1.9 | 77        |
| 20 | Analysis of biofluids by paper spray MS: advances and challenges. <i>Bioanalysis</i> , 2016, 8, 589-606.  | 0.6 | 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.   | 0.5 | 73        |
| 22 | High throughput paper spray mass spectrometry analysis. <i>Clinica Chimica Acta</i> , 2013, 420, 28-33.   | 0.5 | 70        |
| 23 | Paper spray ionization: Applications and perspectives. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 118, 722-730.   | 5.8 | 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.                                       | 3.2 | 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.   | 1.7 | 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.  | 1.2 | 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.  | 1.7 | 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. | 1.2 | 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.   | 6.6 | 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.  | 1.5 | 41        |
| 32 | Drug screening method development for paper spray coupled to a triple quadrupole mass spectrometer. <i>Analytical Methods</i> , 2017, 9, 5037-5043.   | 1.3 | 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.  | 3.2 | 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.                          | 1.7 | 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.   | 3.2 | 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.  | 1.7 | 26        |
| 38 | Rapid prototyping using 3D printing in bioanalytical research. <i>Bioanalysis</i> , 2017, 9, 329-331.  | 0.6 | 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.  | 1.2 | 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.   | 1.4 | 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.  | 3.2 | 12        |
| 42 | Female Blow Flies As Vertebrate Resource Indicators. <i>Scientific Reports</i> , 2019, 9, 10594.   | 1.6 | 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.   | 1.7 | 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.   | 1.2 | 8         |
| 45 | Chemical Assay for the Detection of Vertebrate Fecal Metabolites in Adult Blow Flies (Diptera: Tj ETQq1 1 0.784314 rgBT /Overlock 1  | 0.7 | 6         |
| 46 | A statistical approach to optimizing paper spray mass spectrometry parameters. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8601.   | 0.7 | 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.  | 2.0 | 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 &amp; Technology</i> , 2022, 56, 3535-3543.  | 4.6 | 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. | 1.3 | 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.   | 0.7 | 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.   | 0.7 | 1         |