

Michel W F Nielen

List of Publications by Year in descending order

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85
papers

3,543
citations

126907

33
h-index

144013

57
g-index

88
all docs

88
docs citations

88
times ranked

3519
citing authors

#	ARTICLE	IF	CITATIONS
1	Maldi time-of-flight mass spectrometry of synthetic polymers. <i>Mass Spectrometry Reviews</i> , 1999, 18, 309-344.	5.4	556
2	Screening and confirmation criteria for hormone residue analysis using liquid chromatography accurate mass time-of-flight, Fourier transform ion cyclotron resonance and orbitrap mass spectrometry techniques. <i>Analytica Chimica Acta</i> , 2007, 586, 122-129.	5.4	161
3	Urine Testing for Designer Steroids by Liquid Chromatography with Androgen Bioassay Detection and Electrospray Quadrupole Time-of-Flight Mass Spectrometry Identification. <i>Analytical Chemistry</i> , 2006, 78, 424-431.	6.5	130
4	Control of Strobilurin Fungicides in Wheat Using Direct Analysis in Real Time Accurate Time-of-Flight and Desorption Electrospray Ionization Linear Ion Trap Mass Spectrometry. <i>Analytical Chemistry</i> , 2008, 80, 9567-9575.	6.5	125
5	Multiresidue analysis of beta-agonists in bovine and porcine urine, feed and hair using liquid chromatography electrospray ionisation tandem mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 199-210.	3.7	106
6	Preventive doping control analysis: liquid and gas chromatography time-of-flight mass spectrometry for detection of designer steroids. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 2439-2446.	1.5	99
7	A new highly specific and robust yeast androgen bioassay for the detection of agonists and antagonists. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 389, 1549-1558.	3.7	91
8	Consumer-friendly food allergen detection: moving towards smartphone-based immunoassays. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 5353-5371.	3.7	76
9	Mycotoxin profiling of 1000 beer samples with a special focus on craft beer. <i>PLoS ONE</i> , 2017, 12, e0185887.	2.5	75
10	Rapid control of Chinese star anise fruits and teas for neurotoxic anisatin by Direct Analysis in Real Time high resolution mass spectrometry. <i>Journal of Chromatography A</i> , 2012, 1259, 179-186.	3.7	74
11	Cellphone-based detection platform for rbST biomarker analysis in milk extracts using a microsphere fluorescence immunoassay. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 6857-6866.	3.7	71
12	Metabolomics Approach to Anabolic Steroid Urine Profiling of Bovines Treated with Prohormones. <i>Analytical Chemistry</i> , 2009, 81, 6879-6888.	6.5	67
13	Multi residue screening of intact testosterone esters and boldenone undecylenate in bovine hair using liquid chromatography electrospray tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2006, 830, 126-134.	2.3	66
14	Multiplex surface plasmon resonance biosensing and its transferability towards imaging nanoplasmonics for detection of mycotoxins in barley. <i>Analyst</i> , 2016, 141, 1307-1318.	3.5	66
15	Imaging surface plasmon resonance for multiplex microassay sensing of mycotoxins. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 3005-11.	3.7	59
16	Assessment of two complementary liquid chromatography coupled to high resolution mass spectrometry metabolomics strategies for the screening of anabolic steroid treatment in calves. <i>Analytica Chimica Acta</i> , 2011, 700, 144-154.	5.4	59
17	Unraveling the Hook Effect: A Comprehensive Study of High Antigen Concentration Effects in Sandwich Lateral Flow Immunoassays. <i>Analytical Chemistry</i> , 2020, 92, 15587-15595.	6.5	58
18	Calling Biomarkers in Milk Using a Protein Microarray on Your Smartphone. <i>PLoS ONE</i> , 2015, 10, e0134360.	2.5	57

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19	Confirmatory analysis of 17 β -boldenone, 17 α -boldenone and androsta-1,4-diene-3,17-dione in bovine urine, faeces, feed and skin swab samples by liquid chromatography-electrospray ionisation tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004, 801, 273-283.	2.3	53
20	Screening for anabolic steroids and related compounds in illegal cocktails by liquid chromatography/time-of-flight mass spectrometry and liquid chromatography/quadrupole time-of-flight tandem mass spectrometry with accurate mass measurement. <i>Rapid Communications in Mass Spectrometry</i> , 2001, 15, 1577-1585.	1.5	52
21	Dual biosensor immunoassay-directed identification of fluoroquinolones in chicken muscle by liquid chromatography electrospray time-of-flight mass spectrometry. <i>Analytica Chimica Acta</i> , 2007, 586, 259-268.	5.4	49
22	The (Un)Certainty of Selectivity in Liquid Chromatography Tandem Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 154-163.	2.8	49
23	Rapid analysis of Δ^9 -tetrahydrocannabinol in hair using direct analysis in real time ambient ionization orbitrap mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 682-690.	1.5	45
24	A Critical Comparison between Flow-through and Lateral Flow Immunoassay Formats for Visual and Smartphone-Based Multiplex Allergen Detection. <i>Biosensors</i> , 2019, 9, 143.	4.7	45
25	Identification of an unknown α -agonist in feed by liquid chromatography/bioassay/quadrupole time-of-flight tandem mass spectrometry with accurate mass measurement. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 1633-1641.	1.5	44
26	Detection of anabolic steroids in dietary supplements: The added value of an androgen yeast bioassay in parallel with a liquid chromatography-electrospray tandem mass spectrometry screening method. <i>Analytica Chimica Acta</i> , 2009, 637, 305-314.	5.4	44
27	Dynamic in vitro intestinal barrier model coupled to chip-based liquid chromatography mass spectrometry for oral bioavailability studies. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 1111-1122.	3.7	44
28	Macroscopic and microscopic spatially-resolved analysis of food contaminants and constituents using laser-ablation electrospray ionization mass spectrometry imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 6805-6815.	3.7	43
29	Analysis of Mycotoxins in Beer Using a Portable Nanostructured Imaging Surface Plasmon Resonance Biosensor. <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 8263-8271.	5.2	43
30	Validation and application of a robust yeast estrogen bioassay for the screening of estrogenic activity in animal feed. <i>Food Additives and Contaminants</i> , 2006, 23, 556-568.	2.0	42
31	Novel Selectivity-Based Forensic Toxicological Validation of a Paper Spray Mass Spectrometry Method for the Quantitative Determination of Eight Amphetamines in Whole Blood. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 2665-2676.	2.8	38
32	Validation of a rapid yeast estrogen bioassay, based on the expression of green fluorescent protein, for the screening of estrogenic activity in calf urine. <i>Analytica Chimica Acta</i> , 2005, 529, 57-64.	5.4	35
33	Bioassay-Directed Identification of Estrogen Residues in Urine by Liquid Chromatography Electrospray Quadrupole Time-of-Flight Mass Spectrometry. <i>Analytical Chemistry</i> , 2004, 76, 6600-6608.	6.5	34
34	High-Throughput Bioaffinity Mass Spectrometry for Screening and Identification of Designer Anabolic Steroids in Dietary Supplements. <i>Analytical Chemistry</i> , 2013, 85, 3255-3262.	6.5	34
35	Biochip Spray: Simplified Coupling of Surface Plasmon Resonance Biosensing and Mass Spectrometry. <i>Analytical Chemistry</i> , 2017, 89, 1427-1432.	6.5	34
36	Potential of Recent Ambient Ionization Techniques for Future Food Contaminant Analysis Using (Trans)Portable Mass Spectrometry. <i>Food Analytical Methods</i> , 2020, 13, 706-717.	2.6	34

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37	(Un)targeted Scanning of Locks of Hair for Drugs of Abuse by Direct Analysis in Real Time High-Resolution Mass Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 2489-2496.	6.5	33
38	A rapid surface plasmon resonance (SPR) biosensor immunoassay for screening of somatotropins in injection preparations. <i>Analytica Chimica Acta</i> , 2007, 586, 239-245.	5.4	32
39	Validation and application of a yeast bioassay for screening androgenic activity in calf urine and feed. <i>Analytica Chimica Acta</i> , 2009, 637, 225-234.	5.4	32
40	Colour-encoded paramagnetic microbead-based direct inhibition triplex flow cytometric immunoassay for ochratoxin A, fumonisins and zearalenone in cereals and cereal-based feed. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 7783-7794.	3.7	32
41	Characterization of (Methoxymethyl)melamine Resin by Combined Chromatographic/Mass Spectrometric Techniques. <i>Rapid Communications in Mass Spectrometry</i> , 1996, 10, 74-81.	1.5	30
42	Ambient Surface Analysis of Organic Monolayers using Direct Analysis in Real Time Orbitrap Mass Spectrometry. <i>Analytical Chemistry</i> , 2014, 86, 2403-2411.	6.5	28
43	ASSURED Point-of-Need Food Safety Screening: A Critical Assessment of Portable Food Analyzers. <i>Foods</i> , 2021, 10, 1399.	4.3	28
44	The ultimate veal calf reference experiment: Hormone residue analysis data obtained by gas and liquid chromatography tandem mass spectrometry. <i>Analytica Chimica Acta</i> , 2007, 586, 30-34.	5.4	27
45	6-Plex microsphere immunoassay with imaging planar array detection for mycotoxins in barley. <i>Analyst</i> , 2014, 139, 3968.	3.5	27
46	Online and in situ analysis of organs-on-a-chip. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 115, 138-146.	11.4	27
47	Feasibility of desorption electrospray ionization mass spectrometry for rapid screening of anabolic steroid esters in hair. <i>Analytica Chimica Acta</i> , 2011, 700, 63-69.	5.4	26
48	The Assessment of Selectivity in Different Quadrupole-Orbitrap Mass Spectrometry Acquisition Modes. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 337-346.	2.8	24
49	Rapid Antibody Selection Using Surface Plasmon Resonance for High-Speed and Sensitive Hazelnut Lateral Flow Prototypes. <i>Biosensors</i> , 2018, 8, 130.	4.7	24
50	Surface characterization and antifouling properties of nanostructured gold chips for imaging surface plasmon resonance biosensing. <i>Sensors and Actuators B: Chemical</i> , 2015, 209, 505-514.	7.8	21
51	A versatile, compartmentalised gut-on-a-chip system for pharmacological and toxicological analyses. <i>Scientific Reports</i> , 2021, 11, 4920.	3.3	21
52	Searching for <i>in silico</i> predicted metabolites and designer modifications of (cortico)steroids in urine by high-resolution liquid chromatography/electrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 2329-2337.	1.5	20
53	Multiple Protein Biomarker Assessment for Recombinant Bovine Somatotropin (rbST) Abuse in Cattle. <i>PLoS ONE</i> , 2012, 7, e52917.	2.5	19
54	Receptor-based high-throughput screening and identification of estrogens in dietary supplements using bioaffinity liquid-chromatography ion mobility mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 9427-9436.	3.7	19

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55	USB-Powered Coated Blade Spray Ion Source for On-Site Testing Using Transportable Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 2243-2249.	2.8	19
56	Monitoring milk for antibodies against recombinant bovine somatotropin using a microsphere immunoassay-based biomarker approach. <i>Food Control</i> , 2012, 26, 68-72.	5.5	18
57	Ambient Characterization of Synthetic Fibers by Laser Ablation Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 2017, 89, 4031-4037.	6.5	18
58	Confirmation and 3D profiling of anabolic steroid esters in injection sites using imaging desorption electrospray ionisation (DESI) mass spectrometry. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2013, 30, 1012-1019.	2.3	17
59	Reactive Laser Ablation Electrospray Ionization Time-Resolved Mass Spectrometry of Click Reactions. <i>Analytical Chemistry</i> , 2018, 90, 10409-10416.	6.5	16
60	Critical comparison of mass analyzers for forensic hair analysis by ambient ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 2331-2340.	1.5	15
61	Evidence based decontamination protocols for the removal of external δ^9 -tetrahydrocannabinol (THC) from contaminated hair. <i>Forensic Science International</i> , 2016, 259, 110-118.	2.2	15
62	Assessment of liquid chromatography-tandem mass spectrometry approaches for the analysis of ceftiofur metabolites in poultry muscle. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2012, 29, 197-207.	2.3	14
63	Applicability of a yeast bioassay in the detection of steroid esters in hair. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 1031-1039.	3.7	13
64	A critical assessment of the performance criteria in confirmatory analysis for veterinary drug residue analysis using mass spectrometric detection in selected reaction monitoring mode. <i>Drug Testing and Analysis</i> , 2016, 8, 477-490.	2.6	13
65	Interconnectable solid-liquid protein extraction unit and chip-based dilution for multiplexed consumer immunodiagnosics. <i>Analytica Chimica Acta</i> , 2020, 1140, 190-198.	5.4	13
66	Screening for estrogen residues in calf urine: Comparison of a validated yeast estrogen bioassay and gas chromatography-tandem mass spectrometry. <i>Food Additives and Contaminants</i> , 2006, 23, 1123-1131.	2.0	12
67	Inter-laboratory comparison of a yeast bioassay for the determination of estrogenic activity in biological samples. <i>Analytica Chimica Acta</i> , 2009, 637, 265-272.	5.4	12
68	TiO ₂ Photocatalyzed Oxidation of Drugs Studied by Laser Ablation Electrospray Ionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 639-646.	2.8	12
69	Ultratrace LC-MS/MS Analysis of Segmented Calf Hair for Retrospective Assessment of Time of Clenbuterol Administration in Agriforensics. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 493-499.	5.2	11
70	Laser Ablation Electrospray Ionization Hydrogen/Deuterium Exchange Ambient Mass Spectrometry Imaging. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 249-256.	2.8	11
71	Bioassay based screening of steroid derivatives in animal feed and supplements. <i>Analytica Chimica Acta</i> , 2011, 700, 183-188.	5.4	10
72	Immuno-Enriched Microspheres - Magnetic Blade Spray-Tandem Mass Spectrometry for Domoic Acid in Mussels. <i>Analytical Chemistry</i> , 2021, 93, 15736-15743.	6.5	10

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73	Direct analysis of lateral flow immunoassays for deoxynivalenol using electrospray ionization mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 7547-7558.	3.7	9
74	Chapter 1 Challenges in Chemical Food Contaminants and Residue Analysis. <i>Comprehensive Analytical Chemistry</i> , 2008, , 1-27.	1.3	8
75	Validation of a recombinant cell bioassay for the detection of (gluco)corticosteroids in feed. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2013, 30, 264-271.	2.3	8
76	Hand-Held Diode Laser for On-Site Analysis Using Transportable Mass Spectrometry. <i>Analytical Chemistry</i> , 2021, 93, 8122-8127.	6.5	8
77	From Smartphone Lateral Flow Immunoassay Screening to Direct MS Analysis: Development and Validation of a Semi-Quantitative Direct Analysis in Real-Time Mass Spectrometric (DART-MS) Approach to the Analysis of Deoxynivalenol. <i>Sensors</i> , 2021, 21, 1861.	3.8	7
78	Functional fluorescence assay of botulinum neurotoxin A in complex matrices using magnetic beads. <i>Sensors and Actuators B: Chemical</i> , 2019, 281, 912-919.	7.8	6
79	Simplified screening approach of anabolic steroid esters using a compact atmospheric solid analysis probe mass spectrometric system. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 3459-3470.	3.7	6
80	Recent advances in food analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 2795-2796.	3.7	4
81	Detection of methionine- and alanine-recombinant bovine somatotropins and their induced antibodies in serum and milk of cows suggests blood-milk barrier specificity for these compounds. <i>Journal of Dairy Science</i> , 2021, 104, 5069-5078.	3.4	4
82	Multiplex immunoassay for persistent organic pollutants in tilapia: comparison of imaging- and flow cytometry-based platforms using spectrally encoded paramagnetic microspheres. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2013, 30, 843-852.	2.3	2
83	Controlled Production of Zearalenone-Glucopyranoside Standards with <i>Cunninghamella</i> Strains Using Sulphate-Depleted Media. <i>Toxins</i> , 2021, 13, 366.	3.4	2
84	Advanced food analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 6765-6766.	3.7	1
85	Microsphere Peptide-Based Immunoassay for the Detection of Recombinant Bovine Somatotropin in Injection Preparations. <i>Biosensors</i> , 2022, 12, 138.	4.7	0