

Guido F Verbeck

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

1,906
citations

279798

23
h-index

289244

40
g-index

81
all docs

81
docs citations

81
times ranked

2481
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoinduced Electron Transfer in Axially Coordinated Supramolecular Zinc Tetrapyrrole Bis(styryl)BODIPY Donor-Acceptor Conjugates. <i>ChemPhotoChem</i> , 2021, 5, 260-269.	3.0	4
2	Effects of crude oil vapors on the cardiovascular flow of embryonic Gulf killifish. <i>Science of the Total Environment</i> , 2021, 751, 141627.	8.0	5
3	Toxicological alterations induced by subacute exposure of silver nanoparticles in Wistar rats. <i>Journal of Applied Toxicology</i> , 2021, 41, 972-986.	2.8	12
4	Paper Spray Mass Spectrometry Utilized with a Synthetic Microporous Polyolefin Silica Matrix Substrate in the Rapid Detection and Identification of More than 190 Synthetic Fentanyl Analogs. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 420-428.	2.8	10
5	Donor-acceptor conjugates derived from cobalt porphyrin and fullerene <i>via</i> metal-ligand axial coordination: Formation and excited state charge separation. <i>Journal of Porphyrins and Phthalocyanines</i> , 2021, 25, 533-546.	0.8	8
6	Portable membrane inlet mass spectrometric detection and analysis of chemical warfare agent simulants at the U.S. Army Dugway Proving Ground S/K challenge event. <i>International Journal of Mass Spectrometry</i> , 2021, 468, 116635.	1.5	3
7	Inhalation exposure to silver nanoparticles induces hepatic inflammation and oxidative stress, associated with altered renin-angiotensin system signaling, in Wistar rats. <i>Environmental Toxicology</i> , 2021, , .	4.0	9
8	Paper spray mass spectrometry utilizing Teslin® substrate for rapid detection of lipid metabolite changes during COVID-19 infection. <i>Analyst</i> , The, 2020, 145, 5725-5732.	3.5	31
9	Metallic nanoparticle production and exposure/deposition system for toxicological research applications using zebrafish. <i>Review of Scientific Instruments</i> , 2020, 91, 094101.	1.3	1
10	Severe E-Cigarette, or Vaping, Product Use Associated Lung Injury Requiring Venovenous Extracorporeal Membrane Oxygenation. <i>Pediatric Critical Care Medicine</i> , 2020, 21, 385-388.	0.5	9
11	The genome of jojoba (<i>Simmondsia chinensis</i>): A taxonomically isolated species that directs wax ester accumulation in its seeds. <i>Science Advances</i> , 2020, 6, eaay3240.	10.3	53
12	Synthetic route sourcing of illicit at home cannabidiol (CBD) isomerization to psychoactive cannabinoids using ion mobility-coupled-LC-MS/MS. <i>Forensic Science International</i> , 2020, 308, 110173.	2.2	30
13	Review of Health Consequences of Electronic Cigarettes and the Outbreak of Electronic Cigarette, or Vaping, Product Use-Associated Lung Injury. <i>Journal of Medical Toxicology</i> , 2020, 16, 295-310.	1.5	86
14	Analysis of Lipids in Single Cells and Organelles Using Nanomanipulation-Coupled Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2020, 2064, 19-30.	0.9	8
15	True one cell chemical analysis: a review. <i>Analyst</i> , The, 2019, 144, 4733-4749.	3.5	9
16	A comparative study of microporous polyolefin silica-based paper and cellulose paper substrates utilizing paper spray-mass spectrometry in drug analysis. <i>Analytical Methods</i> , 2019, 11, 3066-3072.	2.7	12
17	Mechanism for etching of exfoliated graphene on substrates by low-energy electron irradiation from helium plasma electron sources. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019, 37, 021401.	2.1	0
18	Generation of transgenic zebrafish with 2 populations of RFP- and GFP-labeled thrombocytes: analysis of their lipids. <i>Blood Advances</i> , 2019, 3, 1406-1415.	5.2	6

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19	Nanoextraction Coupled to Liquid Chromatography Mass Spectrometry Delivers Improved Spatially Resolved Analysis. <i>Analytical Chemistry</i> , 2019, 91, 15411-15417.	6.5	3
20	Effects of high-dosage focused electron-beam irradiation at energies ≈ 30 keV on graphene on SiO ₂ . <i>Applied Surface Science</i> , 2019, 469, 325-330.	6.1	2
21	Methodology for exposing avian embryos to quantified levels of airborne aromatic compounds associated with crude oil spills. <i>Environmental Toxicology and Pharmacology</i> , 2018, 58, 163-169.	4.0	17
22	Direct-infusion electrospray ionization-mass spectrometry profiling of fentanyl and acetylfentanyl reaction mixtures. <i>International Journal of Mass Spectrometry</i> , 2018, 428, 55-61.	1.5	7
23	Application of Various Normalization Methods for Microscale Analysis of Tissues Using Direct Analyte Probed Nanoextraction. <i>Analytical Chemistry</i> , 2018, 90, 12094-12100.	6.5	8
24	<i>Analytical Methods and Trends in Environmental Forensics.</i> , 2018, , 285-301.		0
25	Investigation by direct-infusion ESI-MS and GC-MS of an alleged Leuckart route-specific impurity of methamphetamine. <i>Forensic Science International</i> , 2018, 288, 278-282.	2.2	2
26	A Mass Spectrometer in Every Fume Hood. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 1555-1566.	2.8	3
27	DAPNe with micro-capillary separatory chemistry-coupled to MALDI-MS for the analysis of polar and non-polar lipid metabolism in one cell. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 918-928.	2.8	13
28	A portable mass spectrometer study targeting anthropogenic contaminants in Sub-Antarctic Puerto Williams, Chile. <i>International Journal of Mass Spectrometry</i> , 2017, 422, 148-153.	1.5	27
29	ABA Is Required for Plant Acclimation to a Combination of Salt and Heat Stress. <i>PLoS ONE</i> , 2016, 11, e0147625.	2.5	267
30	Chemical Sniffing Instrumentation for Security Applications. <i>Chemical Reviews</i> , 2016, 116, 8146-8172.	47.7	151
31	Direct analyte-probed nanoextraction (DAPNe) coupled to matrix-assisted laser desorption ionization (MALDI) for examination of the ink chemistry on documents. <i>Forensic Chemistry</i> , 2016, 2, 86-92.	2.8	11
32	Analysis of trace amounts of adulterants found in powders/supplements utilizing Raman spectroscopy coupled to direct analyte-probed nanoextraction-nanospray ionization-mass spectrometry. <i>Analytical Methods</i> , 2016, 8, 4798-4807.	2.7	6
33	Temporal variation in groundwater quality in the Permian Basin of Texas, a region of increasing unconventional oil and gas development. <i>Science of the Total Environment</i> , 2016, 562, 906-913.	8.0	80
34	Rapid experimental and computational determination of phenethylamine drug analogue lipophilicity. <i>Forensic Chemistry</i> , 2016, 1, 58-65.	2.8	6
35	Laser ablation coupled with DAPNe-NSI-MS applied to redacted documents. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2016, 56, 329-340.	2.1	8
36	Point source attribution of ambient contamination events near unconventional oil and gas development. <i>Science of the Total Environment</i> , 2016, 573, 382-388.	8.0	47

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37	Low-energy electron irradiation of preheated and gas-exposed single-wall carbon nanotubes. <i>Applied Surface Science</i> , 2016, 387, 822-827.	6.1	2
38	Evaluation of a custom single Peltier-cooled ablation cell for elemental imaging of biological samples in laser ablation-inductively coupled plasma-mass spectrometry (LA-ICP-MS). <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 1030-1033.	3.0	15
39	Nanomanipulation-Coupled Matrix-Assisted Laser Desorption/ Ionization-Direct Organella Mass Spectrometry: A Technique for the Detailed Analysis of Single Organelles. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 187-193.	2.8	23
40	One-Cell Analysis as a Technique for True Single-Cell Analysis of Organelles in Breast Tumor and Adjacent Normal Tissue to Profile Fatty Acid Composition of Triglyceride Species. <i>Journal of Analytical Oncology</i> , 2016, 5, .	0.1	4
41	Hydrogen as a GC/MS carrier and buffer gas for use in forensic laboratories. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2015, 55, 162-167.	2.1	8
42	Focus on Harsh Environment and Field-Portable Mass Spectrometry: Editorial. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 199-200.	2.8	8
43	Investigation of falsified documents via direct analyte-probed nanoextraction coupled to nanospray mass spectrometry, fluorescence microscopy, and Raman spectroscopy. <i>Analyst, The</i> , 2015, 140, 6553-6562.	3.5	12
44	Re-print of "Sub-eV Ion Deposition Utilizing Soft-Landing Ion Mobility for Controlled Ion, Ion Cluster, and Charged Nanoparticle Deposition". <i>International Journal of Mass Spectrometry</i> , 2015, 377, 214-221.	1.5	2
45	Development of Multi-Membrane Near-Infrared Diode Mass Spectrometer for Field Analysis of Aromatic Hydrocarbons. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 281-285.	2.8	12
46	Vehicle-Mounted Portable Mass Spectrometry System for the Covert Detection via Spatial Analysis of Clandestine Methamphetamine Laboratories. <i>Analytical Chemistry</i> , 2015, 87, 11501-11508.	6.5	43
47	A lipidomics demonstration of the importance of single cell analysis. <i>Analytical Methods</i> , 2015, 7, 3668-3670.	2.7	23
48	Mevalonate deprivation mediates the impact of lovastatin on the differentiation of murine 3T3-F442A preadipocytes. <i>Experimental Biology and Medicine</i> , 2014, 239, 293-301.	2.4	10
49	Nanomanipulation-coupled nanospray mass spectrometry as an approach for single cell analysis. <i>Review of Scientific Instruments</i> , 2014, 85, 124101.	1.3	28
50	Nanomanipulation-coupled to nanospray mass spectrometry applied to document and ink analysis. <i>Forensic Science International</i> , 2014, 242, 150-156.	2.2	16
51	Parallel artificial membrane permeability assay for blood-brain permeability determination of illicit drugs and synthetic analogues. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2014, 54, 351-355.	2.1	8
52	Soft-Landing Ion Mobility of Silver Clusters for Small-Molecule Matrix-Assisted Laser Desorption Ionization Mass Spectrometry and Imaging of Latent Fingerprints. <i>Analytical Chemistry</i> , 2014, 86, 8114-8120.	6.5	48
53	Sub-eV ion deposition utilizing soft-landing ion mobility for controlled ion, ion cluster, and charged nanoparticle deposition. <i>International Journal of Mass Spectrometry</i> , 2014, 370, 66-74.	1.5	7
54	Overcoming Selectivity and Sensitivity Issues of Direct Inject Electrospray Mass Spectrometry via DAPNe-NSI-MS. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 705-711.	2.8	13

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55	Direct Analyte-Probed Nanoextraction Coupled to Nanospray Ionization-Mass Spectrometry of Drug Residues from Latent Fingerprints. <i>Journal of Forensic Sciences</i> , 2013, 58, 875-880.	1.6	26
56	Trace analysis of energetic materials via direct analyte-probed nanoextraction coupled to direct analysis in real time mass spectrometry. <i>Forensic Science International</i> , 2013, 231, 98-101.	2.2	34
57	Imidazolium salts with varying anions as charge carriers for detection of neutral bis(triphenylphosphine)palladium(II) dichloride in electrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 1954-1960.	1.5	5
58	Oxidative pit formation in pristine, hydrogenated and dehydrogenated graphene. <i>Applied Surface Science</i> , 2013, 264, 853-863.	6.1	8
59	Toward a Reusable Surface-Enhanced Raman Spectroscopy (SERS) Substrate by Soft-Landing Ion Mobility. <i>Applied Spectroscopy</i> , 2013, 67, 656-660.	2.2	9
60	Soft-landing preparative mass spectrometry. <i>Analyst</i> , 2012, 137, 4393.	3.5	67
61	On-stage liquid-phase lipid microextraction coupled to nanospray mass spectrometry for detailed, nano-scale lipid analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 957-962.	1.5	12
62	The Removal of Single Layers from Multi-layer Graphene by Low-Energy Electron Stimulation. <i>Small</i> , 2012, 8, 1066-1072.	10.0	8
63	Graphene: The Removal of Single Layers from Multi-layer Graphene by Low-Energy Electron Stimulation (<i>Small</i> 7/2012). <i>Small</i> , 2012, 8, 954-954.	10.0	0
64	Gold-plating of Mylar lift films to capitalize on surface enhanced Raman spectroscopy for chemical extraction of drug residues. <i>Forensic Science International</i> , 2012, 216, 141-145.	2.2	7
65	Laser Ablation ICP-MS Co-Localization of Mercury and Immune Response in Fish. <i>Environmental Science & Technology</i> , 2011, 45, 8982-8988.	10.0	33
66	Ultra-trace analysis of illicit drugs from transfer of an electrostatic lift. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2011, 51, 196-203.	2.1	13
67	IonCCD Detector for Miniature Sector-Field Mass Spectrometer: Investigation of Peak Shape and Detector Surface Artifacts Induced by keV Ion Detection. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 1872-84.	2.8	11
68	Visualization of Lipid Droplet Composition by Direct Organelle Mass Spectrometry. <i>Journal of Biological Chemistry</i> , 2011, 286, 3298-3306.	3.4	74
69	Ion isolation and collision-induced dissociation in a 0.5mm cylindrical ion trap. <i>International Journal of Mass Spectrometry</i> , 2010, 295, 149-152.	1.5	6
70	One-bead, one-compound peptide library sequencing via high-pressure ammonia cleavage coupled to nanomanipulation/nanoelectrospray ionization mass spectrometry. <i>Analytical Biochemistry</i> , 2010, 398, 7-14.	2.4	30
71	Nanomanipulation-Coupled Nanospray Mass Spectrometry Applied to the Extraction and Analysis of Trace Analytes Found on Fibers*. <i>Journal of Forensic Sciences</i> , 2010, 55, 1218-1221.	1.6	24
72	On the mechanism for plasma hydrogenation of graphene. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	38

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73	Drift tube soft-landing for the production and characterization of materials: Applied to Cu clusters. Review of Scientific Instruments, 2010, 81, 034104.	1.3	18
74	Resolution equations for high-field ion mobility. Journal of the American Society for Mass Spectrometry, 2004, 15, 1320-1324.	2.8	37
75	Distinguishing between Phosphorylated and Nonphosphorylated Peptides with Ion Mobility ⁺ Mass Spectrometry. Journal of Proteome Research, 2002, 1, 303-306.	3.7	86
76	Observation of Conserved Solution-Phase Secondary Structure in Gas-Phase Tryptic Peptides. Journal of the American Chemical Society, 2002, 124, 4214-4215.	13.7	60
77	A fundamental introduction to ion mobility mass spectrometry applied to the analysis of biomolecules. Journal of Biomolecular Techniques, 2002, 13, 56-61.	1.5	48
78	Isoelectric point analysis of proteins and peptides by capillary isoelectric focusing with two-wavelength laser-induced fluorescence detection. Journal of Separation Science, 1999, 11, 708-715.	1.0	13