

Glen P Jackson

List of Publications by Year in descending order

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82
papers

1,883
citations

270111

25
h-index

371746

37
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87
all docs

87
docs citations

87
times ranked

1891
citing authors

#	ARTICLE	IF	CITATIONS
1	Differentiation of leucine and isoleucine residues in peptides using charge transfer dissociation mass spectrometry (CTD-MS). <i>Rapid Communications in Mass Spectrometry</i> , 2022, 36, e9246.	0.7	6
2	Differentiating aspartic acid isomers and epimers with charge transfer dissociation mass spectrometry (CTD-MS). <i>Analyst, The</i> , 2022, 147, 1159-1168.	1.7	3
3	Structural Characterization of Natural and Synthetic Macrocycles Using Charge-Transfer Dissociation Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 671-680.	1.2	1
4	Structural characterization of human milk oligosaccharides using ultrahigh performance liquid chromatography-helium charge transfer dissociation mass spectrometry. <i>Glycobiology</i> , 2022, , .	1.3	0
5	Origin determination of the Eastern oyster (<i>Crassostrea virginica</i>) using a combination of whole-body compound-specific isotope analysis and heavy metal analysis. <i>Analytical Methods</i> , 2021, 13, 3493-3503.	1.3	6
6	Comparison of in-source collision-induced dissociation and beam-type collision-induced dissociation of emerging synthetic drugs using a high-resolution quadrupole time-of-flight mass spectrometer. <i>Journal of Mass Spectrometry</i> , 2021, 56, e4679.	0.7	7
7	Structural Characterization of Isomeric Oligogalacturonan Mixtures Using Ultrahigh-Performance Liquid Chromatography-Charge Transfer Dissociation Mass Spectrometry. <i>Analytical Chemistry</i> , 2021, 93, 2838-2847.	3.2	9
8	Quantitative assessment of six different reagent gases for charge transfer dissociation (CTD) of biological ions. <i>International Journal of Mass Spectrometry</i> , 2021, 462, 116532.	0.7	5
9	Ultra-high-performance liquid chromatography charge transfer dissociation mass spectrometry (UHPLC-CTD-MS) as a tool for analyzing the structural heterogeneity in carrageenan oligosaccharides. <i>Analytical and Bioanalytical Chemistry</i> , 2021, , 1.	1.9	5
10	Charge transfer dissociation of a branched glycan with alkali and alkaline earth metal adducts. <i>Journal of Mass Spectrometry</i> , 2021, 56, e4774.	0.7	7
11	The influence of Na/H exchange on the charge transfer dissociation (CTD) spectra of mannuronic acid oligomers. <i>International Journal of Mass Spectrometry</i> , 2021, 468, 116634.	0.7	2
12	The characterization of isobaric product ions of fentanyl using multi-stage mass spectrometry, high-resolution mass spectrometry and isotopic labeling. <i>Drug Testing and Analysis</i> , 2020, 12, 496-503.	1.6	17
13	Structural Characterization of Sulfated Glycosaminoglycans Using Charge-Transfer Dissociation. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 2143-2153.	1.2	14
14	The influence of chemical modifications on the fragmentation behavior of fentanyl and fentanyl-related compounds in electrospray ionization tandem mass spectrometry. <i>Drug Testing and Analysis</i> , 2020, 12, 957-967.	1.6	15
15	Weathering of ignitable liquids at elevated temperatures: A thermodynamic model, based on laws of ideal solutions, to predict weathering in structure fires. <i>Forensic Chemistry</i> , 2020, 18, 100215.	1.7	7
16	Compound-Specific Isotope Analysis of Human Hair: Predicting Behaviors and Biometrics beyond Dietary Factors. <i>Analytical Chemistry</i> , 2020, 92, 3014-3022.	3.2	6
17	Fragmentation pathways of \pm -pyrrolidinophenone synthetic cathinones and their application to the identification of emerging synthetic cathinone derivatives. <i>International Journal of Mass Spectrometry</i> , 2020, 453, 116343.	0.7	16
18	Fragmentation pathways of odd- and even-electron N-alkylated synthetic cathinones. <i>International Journal of Mass Spectrometry</i> , 2020, 453, 116354.	0.7	19

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19	Discrimination of $\hat{1}^2$ -1,4- and $\hat{1}^2$ -1,3-Linkages in Native Oligosaccharides via Charge Transfer Dissociation Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 1249-1259.	1.2	19
20	Identification of novel fragmentation pathways and fragment ion structures in the tandem mass spectra of protonated synthetic cathinones. <i>Forensic Chemistry</i> , 2020, 19, 100245.	1.7	18
21	Isotope ratio mass spectrometry in forensic science applications. <i>Forensic Chemistry</i> , 2019, 13, 100154.	1.7	23
22	Evaluation of the Presence of 1,3-Dimethylamylamine in Pelargonium Leaves and Essential Oils by Mass Spectrometric and Chromatographic Methods. <i>Chromatographia</i> , 2019, 82, 875-883.	0.7	3
23	The differentiation of 2,5-dimethoxy-N-(N-methoxybenzyl)phenethylamine (NBOMe) isomers using GC retention indices and multivariate analysis of ion abundances in electron ionization mass spectra. <i>Forensic Chemistry</i> , 2019, 14, 100160.	1.7	32
24	Characterization of the Spectral Accuracy of an Orbitrap Mass Analyzer Using Isotope Ratio Mass Spectrometry. <i>Analytical Chemistry</i> , 2018, 90, 1897-1906.	3.2	30
25	DART-MS/MS screening for the determination of 1,3-dimethylamylamine and undeclared stimulants in seized dietary supplements from Brazil. <i>Forensic Chemistry</i> , 2018, 8, 134-145.	1.7	18
26	Top-Down Charge Transfer Dissociation (CTD) of Gas-Phase Insulin: Evidence of a One-Step, Two-Electron Oxidation Mechanism. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 284-296.	1.2	12
27	Analysis of the ^{13}C isotope ratios of amino acids in the larvae, pupae and adult stages of <i>Calliphora vicina</i> blow flies and their carrion food sources. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 7943-7954.	1.9	7
28	Comparison of measured and recommended acceptance criteria for the analysis of seized drugs using Gas Chromatography–Mass Spectrometry (GC–MS). <i>Forensic Chemistry</i> , 2018, 10, 15-26.	1.7	18
29	Charge Transfer Dissociation (CTD) Mass Spectrometry of Peptide Cations: Study of Charge State Effects and Side-Chain Losses. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 1271-1281.	1.2	16
30	Charge transfer dissociation of phosphocholines: gas-phase ion/ion reactions between helium cations and phospholipid cations. <i>Journal of Mass Spectrometry</i> , 2017, 52, 271-282.	0.7	21
31	The surprising effect of temperature on the weathering of gasoline. <i>Forensic Chemistry</i> , 2017, 4, 32-40.	1.7	25
32	Negative Polarity Helium Charge Transfer Dissociation Tandem Mass Spectrometry: Radical-Initiated Fragmentation of Complex Polysulfated Anions. <i>Analytical Chemistry</i> , 2017, 89, 3824-3828.	3.2	21
33	Multistage mass spectrometry of phospholipids using collision-induced dissociation (CID) and metastable atom-activated dissociation (MAD). <i>International Journal of Mass Spectrometry</i> , 2016, 403, 1-7.	0.7	29
34	Charge Transfer Dissociation of Complex Oligosaccharides: Comparison with Collision-Induced Dissociation and Extreme Ultraviolet Dissociative Photoionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 1614-1619.	1.2	29
35	Field Analysis of Polychlorinated Biphenyls (PCBs) in Soil Using Solid-Phase Microextraction (SPME) and a Portable Gas Chromatography–Mass Spectrometry System. <i>Applied Spectroscopy</i> , 2016, 70, 785-793.	1.2	23
36	Global spatial distributions of nitrogen and carbon stable isotope ratios of modern human hair. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 2111-2121.	0.7	57

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37	Amino acid composition of human scalp hair as a biometric classifier and investigative lead. <i>Analytical Methods</i> , 2015, 7, 1707-1718.	1.3	21
38	Performance Evaluation of a Loeb-Eiber Mass Filter at 1 Torr. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 286-291.	1.2	3
39	Biometrics from the carbon isotope ratio analysis of amino acids in human hair. <i>Science and Justice - Journal of the Forensic Science Society</i> , 2015, 55, 43-50.	1.3	23
40	Forensic Mass Spectrometry. <i>Annual Review of Analytical Chemistry</i> , 2015, 8, 419-440.	2.8	46
41	Profiling Amino Acids of Jordanian Scalp Hair as a Tool for Diabetes Mellitus Diagnosis: A Pilot Study. <i>Analytical Chemistry</i> , 2015, 87, 7078-7084.	3.2	28
42	27th ASMS Sanibel Conference on Mass Spectrometry—Security and Forensic Applications. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 695-698.	1.2	0
43	Radical-induced fragmentation of phospholipid cations using metastable atom-activated dissociation mass spectrometry (MAD-MS). <i>International Journal of Mass Spectrometry</i> , 2015, 390, 178-186.	0.7	36
44	Determination of Aroclor 1260 in soil samples by gas chromatography with mass spectrometry and solid-phase microextraction. <i>Journal of Separation Science</i> , 2014, 37, 2751-2756.	1.3	8
45	Charge Transfer Dissociation (CTD) Mass Spectrometry of Peptide Cations Using Kiloelectronvolt Helium Cations. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 1939-1943.	1.2	42
46	Direct analysis of drugs in forensic applications using laser ablation electrospray ionization-tandem mass spectrometry (LAESI-MS/MS). <i>Analytical Methods</i> , 2014, 6, 4810-4817.	1.3	19
47	Fragmentation differences in the EI spectra of three synthetic cannabinoid positional isomers: JWH-250, JWH-302, and JWH-201. <i>International Journal of Mass Spectrometry</i> , 2014, 368, 23-29.	0.7	35
48	Characterization and fate of polychlorinated biphenyls, polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans in soils and sediments at the Portsmouth Gaseous Diffusion Plant, Ohio. <i>Chemosphere</i> , 2014, 114, 93-100.	4.2	15
49	Analysis of household ignitable liquids and their post-combustion weathered residues using compound-specific gas chromatography-combustion-isotope ratio mass spectrometry. <i>Forensic Science International</i> , 2013, 233, 365-373.	1.3	16
50	^{13}C analysis of amino acids in human hair using trimethylsilyl derivatives and gas chromatography/combustion/isotope ratio mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 1481-1489.	0.7	15
51	Classification of Cultivation Locations of <i>Panax quinquefolius</i> L Samples using High Performance Liquid Chromatography—Electrospray Ionization Mass Spectrometry and Chemometric Analysis. <i>Analytical Chemistry</i> , 2012, 84, 3628-3634.	3.2	35
52	Comparison of CID, ETD and metastable atom-activated dissociation (MAD) of doubly and triply charged phosphorylated tau peptides. <i>Journal of Mass Spectrometry</i> , 2012, 47, 786-794.	0.7	11
53	Comparison of Bulk and Compound-Specific ^{13}C Isotope Ratio Analyses for the Discrimination Between Cannabis Samples*. <i>Journal of Forensic Sciences</i> , 2012, 57, 757-764.	0.9	12
54	Classification of jet fuels by fuzzy rule-building expert systems applied to three-way data by fast gas chromatography—fast scanning quadrupole ion trap mass spectrometry. <i>Talanta</i> , 2011, 83, 1260-1268.	2.9	18

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55	Simultaneous Identification and ^{13}C Classification of Drugs Using GC with Concurrent Single Quadrupole and Isotope Ratio Mass Spectrometers*. Journal of Forensic Sciences, 2011, 56, S203-9.	0.9	13
56	Characterization of Tyrosine Nitration and Cysteine Nitrosylation Modifications by Metastable Atom-Activation Dissociation Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2011, 22, 221-232.	1.2	28
57	Metastable Atom-Activated Dissociation Mass Spectrometry of Phosphorylated and Sulfonated Peptides in Negative Ion Mode. Journal of the American Society for Mass Spectrometry, 2011, 22, 1088-1099.	1.2	30
58	Manganese(II) complexes of di-2-pyridinylmethylene-1,2-diimine di-Schiff base ligands: Structures and reactivity. Inorganica Chimica Acta, 2010, 363, 3390-3398.	1.2	15
59	Gas Chromatography Tandem Mass Spectrometry for Biomarkers of Alcohol Abuse in Human Hair. Therapeutic Drug Monitoring, 2010, 32, 216-223.	1.0	17
60	Metastable atom-activated dissociation mass spectrometry: leucine/isoleucine differentiation and ring cleavage of proline residues. Journal of Mass Spectrometry, 2009, 44, 1211-1223.	0.7	48
61	Fast gas chromatography negative chemical ionization tandem mass spectrometry of explosive compounds using dynamic collision-induced dissociation. International Journal of Mass Spectrometry, 2009, 279, 93-99.	0.7	30
62	Isotope ratio mass spectrometry. Analyst, The, 2009, 134, 213-222.	1.7	204
63	Resonance excitation and dynamic collision-induced dissociation in quadrupole ion traps using higher-order excitation frequencies. Rapid Communications in Mass Spectrometry, 2008, 22, 2342-2348.	0.7	20
64	Analysis of Suspected Trace Human Remains from an Indoor Concrete Surface. Journal of Forensic Sciences, 2008, 53, 1437-1442.	0.9	6
65	Dynamic Collision-Induced Dissociation of Peptides in a Quadrupole Ion Trap Mass Spectrometer. Analytical Chemistry, 2007, 79, 5468-5473.	3.2	12
66	Dynamic collision-induced dissociation (DCID) in a quadrupole ion trap using a two-frequency excitation waveform: I. Effects of excitation frequency and phase angle. Journal of the American Society for Mass Spectrometry, 2007, 18, 749-761.	1.2	9
67	Dynamic collision-induced dissociation (DCID) in a quadrupole ion trap using a two-frequency excitation waveform: II. Effects of frequency spacing and scan rate. Journal of the American Society for Mass Spectrometry, 2007, 18, 2017-2025.	1.2	8
68	Fast Gas Chromatography of Explosive Compounds Using a Pulsed-Discharge Electron Capture Detector*. Journal of Forensic Sciences, 2006, 51, 815-818.	0.9	32
69	Energetics and efficiencies of collision-induced dissociation achieved during the mass acquisition scan in a quadrupole ion trap. Rapid Communications in Mass Spectrometry, 2005, 19, 3555-3563.	0.7	12
70	Gas-Phase Reactions of Bare and Ligated Uranium Ions with Sulfur Hexafluoride. Journal of Physical Chemistry A, 2004, 108, 1042-1051.	1.1	19
71	Electrospray mass spectrometry of undiluted ionic liquids. This manuscript has been authored by a contractor of the U.S. Government under contract No. DE-AC05-00OR22725. Accordingly, the U.S. Government retains paid-up, nonexclusive, irrevocable, worldwide license to publish or reproduce the published form of this contribution, prepare derivative works, distribute copies to the public, and perform publicly and display publicly, or allow others to do so, for U.S. Government purposes.. Chemical Communications, 2004, , 522.	2.2	58
72	Probing excitation/ionization processes in millisecond-pulsed glow discharges in argon through the addition of nitrogen. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2003, 58, 185-209.	1.5	40

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73	Bulk plasma properties in the pulsed glow discharge. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2003, 58, 1417-1433.	1.5	22
74	Efficient polyatomic interference reduction in plasma-source mass spectrometry via collision induced dissociation. <i>Journal of Analytical Atomic Spectrometry</i> , 2003, 18, 1026-1032.	1.6	14
75	A new pulsed glow discharge source with enhanced ion extraction for small non-conductive samples and atmospheric sampling. <i>Journal of Analytical Atomic Spectrometry</i> , 2003, 18, 665.	1.6	2
76	Modeling of a millisecond pulsed glow discharge: Investigation of the afterpeak. <i>Journal of Analytical Atomic Spectrometry</i> , 2003, 18, 533.	1.6	49
77	Gas-Phase Reactions of U ⁺ and U ²⁺ with O ₂ and H ₂ O in a Quadrupole Ion Trap. <i>Journal of Physical Chemistry A</i> , 2002, 106, 7788-7794.	1.1	53
78	Collision-induced dissociation of lanthanide oxide ions in quadrupole ion traps: effects of bond strength and mass. <i>International Journal of Mass Spectrometry</i> , 2002, 216, 85-93.	0.7	16
79	Gas-phase reactions of bare and oxo-ligated actinide and lanthanide cations with pentamethylcyclopentadiene studied in a quadrupole ion trap mass spectrometer. <i>International Journal of Mass Spectrometry</i> , 2002, 220, 419-441.	0.7	34
80	Spectral, spatial and temporal characterization of a millisecond pulsed glow discharge: copper analyte emission and ionization. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2001, 56, 487-501.	1.5	48
81	Spectral, spatial and temporal characteristics of a millisecond pulsed glow discharge: metastable argon atom production. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2001, 56, 2449-2464.	1.5	61
82	New fast screening method for organochlorine pesticides in water by using solid-phase microextraction with fast gas chromatography and a pulsed-discharge electron capture detector. <i>Analyst</i> , 1998, 123, 1085-1090.	1.7	38