

# Glen P Jackson

## List of Publications by Year in descending order

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82  
papers

1,883  
citations

236925

25  
h-index

330143

37  
g-index

87  
all docs

87  
docs citations

87  
times ranked

1733  
citing authors

#	ARTICLE	IF	CITATIONS
1	Isotope ratio mass spectrometry. <i>Analyst, The</i> , 2009, 134, 213-222.	3.5	204
2	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.	2.9	61
3	Electrospray mass spectrometry of unlabelled ionic lipids. 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.. <i>Chemical Communications</i> , 2004, , 522.	4.1	58
4	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.	1.5	57
5	Gas-Phase Reactions of U+and U2+with O2and H2O in a Quadrupole Ion Trap. <i>Journal of Physical Chemistry A</i> , 2002, 106, 7788-7794.	2.5	53
6	Modeling of a millisecond pulsed glow discharge: Investigation of the afterpeak. <i>Journal of Analytical Atomic Spectrometry</i> , 2003, 18, 533.	3.0	49
7	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.	2.9	48
8	Metastable atom-activated dissociation mass spectrometry: leucine/isoleucine differentiation and ring cleavage of proline residues. <i>Journal of Mass Spectrometry</i> , 2009, 44, 1211-1223.	1.6	48
9	Forensic Mass Spectrometry. <i>Annual Review of Analytical Chemistry</i> , 2015, 8, 419-440.	5.4	46
10	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.	2.8	42
11	Probing excitation/ionization processes in millisecond-pulsed glow discharges in argon through the addition of nitrogen. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2003, 58, 185-209.	2.9	40
12	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, The</i> , 1998, 123, 1085-1090.	3.5	38
13	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.	1.5	36
14	Classification of Cultivation Locations of <i>Panax quinquefolius</i> L Samples using High Performance Liquid Chromatography- <sup>13</sup> C Electro spray Ionization Mass Spectrometry and Chemometric Analysis. <i>Analytical Chemistry</i> , 2012, 84, 3628-3634.	6.5	35
15	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.	1.5	35
16	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.	1.5	34
17	Fast Gas Chromatography of Explosive Compounds Using a Pulsed-Discharge Electron Capture Detector*. <i>Journal of Forensic Sciences</i> , 2006, 51, 815-818.	1.6	32
18	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.	2.8	32

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19	Fast gas chromatography negative chemical ionization tandem mass spectrometry of explosive compounds using dynamic collision-induced dissociation. <i>International Journal of Mass Spectrometry</i> , 2009, 279, 93-99.	1.5	30
20	Metastable Atom-Activated Dissociation Mass Spectrometry of Phosphorylated and Sulfonated Peptides in Negative Ion Mode. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 1088-1099.	2.8	30
21	Characterization of the Spectral Accuracy of an Orbitrap Mass Analyzer Using Isotope Ratio Mass Spectrometry. <i>Analytical Chemistry</i> , 2018, 90, 1897-1906.	6.5	30
22	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.	1.5	29
23	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.	2.8	29
24	Characterization of Tyrosine Nitration and Cysteine Nitrosylation Modifications by Metastable Atom-Activation Dissociation Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 221-232.	2.8	28
25	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.	6.5	28
26	The surprising effect of temperature on the weathering of gasoline. <i>Forensic Chemistry</i> , 2017, 4, 32-40.	2.8	25
27	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.	2.1	23
28	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.	2.2	23
29	Isotope ratio mass spectrometry in forensic science applications. <i>Forensic Chemistry</i> , 2019, 13, 100154.	2.8	23
30	Bulk plasma properties in the pulsed glow discharge. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2003, 58, 1417-1433.	2.9	22
31	Amino acid composition of human scalp hair as a biometric classifier and investigative lead. <i>Analytical Methods</i> , 2015, 7, 1707-1718.	2.7	21
32	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.	1.6	21
33	Negative Polarity Helium Charge Transfer Dissociation Tandem Mass Spectrometry: Radical-Initiated Fragmentation of Complex Polysulfated Anions. <i>Analytical Chemistry</i> , 2017, 89, 3824-3828.	6.5	21
34	Resonance excitation and dynamic collision-induced dissociation in quadrupole ion traps using higher-order excitation frequencies. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 2342-2348.	1.5	20
35	Gas-Phase Reactions of Bare and Ligated Uranium Ions with Sulfur Hexafluoride. <i>Journal of Physical Chemistry A</i> , 2004, 108, 1042-1051.	2.5	19
36	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.	2.7	19

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37	Fragmentation pathways of odd- and even-electron N-alkylated synthetic cathinones. <i>International Journal of Mass Spectrometry</i> , 2020, 453, 116354.	1.5	19
38	Discrimination of Î <sup>2</sup> -1,4- and Î <sup>2</sup> -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.	2.8	19
39	Classification of jet fuels by fuzzy rule-building expert systems applied to three-way data by fast gas chromatographyâ€”fast scanning quadrupole ion trap mass spectrometry. <i>Talanta</i> , 2011, 83, 1260-1268.	5.5	18
40	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.	2.8	18
41	Comparison of measured and recommended acceptance criteria for the analysis of seized drugs using Gas Chromatographyâ€”Mass Spectrometry (GCâ€”MS). <i>Forensic Chemistry</i> , 2018, 10, 15-26.	2.8	18
42	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.	2.8	18
43	The characterization of isobaric product ions of fentanyl using multiâ€”stage mass spectrometry, highâ€”resolution mass spectrometry and isotopic labeling. <i>Drug Testing and Analysis</i> , 2020, 12, 496-503.	2.6	17
44	Gas Chromatography Tandem Mass Spectrometry for Biomarkers of Alcohol Abuse in Human Hair. <i>Therapeutic Drug Monitoring</i> , 2010, 32, 216-223.	2.0	17
45	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.	1.5	16
46	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.	2.2	16
47	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.	2.8	16
48	Fragmentation pathways of Î±-pyrrolidinophenone synthetic cathinones and their application to the identification of emerging synthetic cathinone derivatives. <i>International Journal of Mass Spectrometry</i> , 2020, 453, 116343.	1.5	16
49	Manganese(II) complexes of di-2-pyridinylmethylene-1,2-diimine di-Schiff base ligands: Structures and reactivity. <i>Inorganica Chimica Acta</i> , 2010, 363, 3390-3398.	2.4	15
50	Î <sup>13</sup> 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.	1.5	15
51	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.	8.2	15
52	The influence of chemical modifications on the fragmentation behavior of fentanyl and fentanylâ€”related compounds in electrospray ionization tandem mass spectrometry. <i>Drug Testing and Analysis</i> , 2020, 12, 957-967.	2.6	15
53	Efficient polyatomic interference reduction in plasma-source mass spectrometry via collision induced dissociation. <i>Journal of Analytical Atomic Spectrometry</i> , 2003, 18, 1026-1032.	3.0	14
54	Structural Characterization of Sulfated Glycosaminoglycans Using Charge-Transfer Dissociation. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 2143-2153.	2.8	14

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55	Simultaneous Identification and $\delta^{13}\text{C}$ Classification of Drugs Using GC with Concurrent Single Quadrupole and Isotope Ratio Mass Spectrometers*. <i>Journal of Forensic Sciences</i> , 2011, 56, S203-9.	1.6	13
56	Energetics and efficiencies of collision-induced dissociation achieved during the mass acquisition scan in a quadrupole ion trap. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 3555-3563.	1.5	12
57	Dynamic Collision-Induced Dissociation of Peptides in a Quadrupole Ion Trap Mass Spectrometer. <i>Analytical Chemistry</i> , 2007, 79, 5468-5473.	6.5	12
58	Comparison of Bulk and Compound-Specific $\delta^{13}\text{C}$ Isotope Ratio Analyses for the Discrimination Between Cannabis Samples*. <i>Journal of Forensic Sciences</i> , 2012, 57, 757-764.	1.6	12
59	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.	2.8	12
60	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.	1.6	11
61	Dynamic collision-induced dissociation (DCID) in a quadrupole ion trap using a two-frequency excitation waveform: I. Effects of excitation frequency and phase angle. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 749-761.	2.8	9
62	Structural Characterization of Isomeric Oligogalacturonan Mixtures Using Ultrahigh-Performance Liquid Chromatography-Charge Transfer Dissociation Mass Spectrometry. <i>Analytical Chemistry</i> , 2021, 93, 2838-2847.	6.5	9
63	Dynamic collision-induced dissociation (DCID) in a quadrupole ion trap using a two-frequency excitation waveform: II. Effects of frequency spacing and scan rate. <i>Journal of the American Society for Mass Spectrometry</i> , 2007, 18, 2017-2025.	2.8	8
64	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.	2.5	8
65	Analysis of the $^{13}\text{C}$ 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.	3.7	7
66	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.	2.8	7
67	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.	1.6	7
68	Charge transfer dissociation of a branched glycan with alkali and alkaline earth metal adducts. <i>Journal of Mass Spectrometry</i> , 2021, 56, e4774.	1.6	7
69	Analysis of Suspected Trace Human Remains from an Indoor Concrete Surface. <i>Journal of Forensic Sciences</i> , 2008, 53, 1437-1442.	1.6	6
70	Compound-Specific Isotope Analysis of Human Hair: Predicting Behaviors and Biometrics beyond Dietary Factors. <i>Analytical Chemistry</i> , 2020, 92, 3014-3022.	6.5	6
71	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.	2.7	6
72	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.	1.5	6

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73	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.	1.5	5
74	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.	3.7	5
75	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.	2.8	3
76	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.	1.3	3
77	Differentiating aspartic acid isomers and epimers with charge transfer dissociation mass spectrometry (CTD-MS). <i>Analyst, The</i> , 2022, 147, 1159-1168.	3.5	3
78	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.	3.0	2
79	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.	1.5	2
80	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.	2.8	1
81	27th ASMS Sanibel Conference on Mass Spectrometryâ€™Security and Forensic Applications. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 695-698.	2.8	0
82	Structural characterization of human milk oligosaccharides using ultrahigh performance liquid chromatographyâ€™helium charge transfer dissociation mass spectrometry. <i>Glycobiology</i> , 2022, , .	2.5	0