Richard B Cole

List of Publications by Year
in descending order

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62 papers	2,280 citations	257450 24 h-index	233421 45 g-index
65 all docs	65 docs citations	65 times ranked	2154 citing authors

#	Article	IF	Citations
1	An international laboratory comparison of dissolved organic matter composition by high resolution mass spectrometry: Are we getting the same answer?. Limnology and Oceanography: Methods, 2020, 18, 235-258.	2.0	109
2	Investigation of space charge effects and ion trapping capacity on direct introduction ultra-high resolution mass spectrometry workflows for metabolomics. Journal of Mass Spectrometry, 2020, 55, e4613.	1.6	12
3	TUTORIAL: ION ACTIVATION IN TANDEM MASS SPECTROMETRY USING ULTRAâ€HIGH RESOLUTION INSTRUMENTATION. Mass Spectrometry Reviews, 2020, 39, 680-702.	5.4	24
4	â€œConformation pinningâ€•by anion attachment enabling separation of isomeric steroid monomers by ion mobility spectrometry. Journal of Mass Spectrometry, 2020, 55, .	1.6	7
5	Identification of Postblast Residues by DART-High Resolution Mass Spectrometry Combined with Multivariate Statistical Analysis of the Kendrick Mass Defect. Analytical Chemistry, 2019, 91, 8093-8100.	6.5	7
6	Investigation of activation energies for dissociation of hostâ€guest complexes in the gas phase using lowâ€energy collision induced dissociation. Journal of Mass Spectrometry, 2019, 54, 437-448.	1.6	7
7	Investigation of Hemicryptophane Host-Guest Binding Energies Using High-Pressure Collision-Induced Dissociation in Combination with RRKM Modeling. Journal of the American Society for Mass Spectrometry, 2019, 30, 509-518.	2.8	2
8	Characterization of Fluorinated Polymers by Atmospheric-Solid-Analysis-Probe High-Resolution Mass Spectrometry (ASAP/HRMS) Combined with Kendrick-Mass-Defect Analysis. Analytical Chemistry, 2018, 90, 6035-6042.	6.5	21
9	A systematic tandem mass spectrometric study of anion attachment for improved detection and acidity evaluation of nitrogenâ€rich energetic compounds. Journal of Mass Spectrometry, 2018, 53, 21-29.	1.6	3
10	Lowâ€energy collisionâ€induced dissociation (lowâ€energy CID), collisionâ€induced dissociation (CID), and higher energy collision dissociation (HCD) mass spectrometry for structural elucidation of saccharides and clarification of their dissolution mechanism in DMAc/LiCl. Journal of Mass Spectrometry, 2018, 53, 705-716.	1.6	15
11	PCR Incorporation of Polyoxometalate Modified Deoxynucleotide Triphosphates and Their Application in Molecular Electrochemical Sensing of Yersinia pestis. Chemistry - A European Journal, 2017, 23, 10597-10603.	3.3	17
12	Experimental bond dissociation energies of benzylpyridinium thermometer ions determined by threshold-CID and RRKM modeling. International Journal of Mass Spectrometry, 2017, 417, 69-75.	1.5	14
13	Negative Ion MALDI Mass Spectrometry of Polyoxometalates (POMs): Mechanism of Singly Charged Anion Formation and Chemical Properties Evaluation. Journal of the American Society for Mass Spectrometry, 2016, 27, 1301-1313.	2.8	14
14	Understanding paper degradation: identification of products of cellulosic paper decomposition at the wet-dry â€œtidelineâ€•interface using GC-MS. Analytical and Bioanalytical Chemistry, 2016, 408, 8133-8147.	3.7	6
15	Combined use of direct analysis in real-time/Orbitrap mass spectrometry and micro-Raman spectroscopy for the comprehensive characterization of real explosive samples. Analytical and Bioanalytical Chemistry, 2016, 408, 5677-5687.	3.7	28
16	Improved Steroids Detection and Evidence for Their Regiospecific Decompositions Using Anion Attachment Mass Spectrometry. Analytical Chemistry, 2016, 88, 3585-3591.	6.5	12
17	Evidence for ion-ion interactions between peptides and anions (HSO₄^{â^’}or) Tj ETQq1 1 0.784314 rgBT /Ove 49, 490-497.	1.6	1
18	Jeanâ€Antoine Nollet: The father of experimental electrospray. Mass Spectrometry Reviews, 2014, 33, 418-423.	5.4	9

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19	â€œBest Matchâ€•Model and Effect of Na⁺/H⁺ Exchange on Anion Attachment to Peptides and Stability of Formed Adducts in Negative Ion Electrospray Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2014, 25, 204-213.	2.8	5
20	Collision cell pressure effect on CID spectra pattern using triple quadrupole instruments: a RRKM modeling. Journal of Mass Spectrometry, 2013, 48, 179-186.	1.6	13
21	Direct differentiation of Aâ€ring single attachment versus Aâ€•and Dâ€ring double attachment of phycoerythrobilin chromophores to phycobiliproteins using MALDI mass spectrometry. Journal of Mass Spectrometry, 2013, 48, 187-192.	1.6	0
22	Analysis of the volatile organic compounds inCinnamomum cassiabark by direct sample introduction thermal desorption gas chromatographyâ€“mass spectrometry. Journal of Essential Oil Research, 2013, 25, 458-463.	2.7	17
23	Novel Fragmentation Pathways of Anionic Adducts of Steroids Formed by Electrospray Anion Attachment Involving Regioselective Attachment, Regiospecific Decompositions, Charge-Induced Pathways, and Ionâ€“Dipole Complex Intermediates. Journal of the American Society for Mass Spectrometry, 2012, 23, 1558-1568.	2.8	37
24	9,10â€Diphenylanthracene as a matrix for MALDIâ€MS electron transfer secondary reactions. Journal of Mass Spectrometry, 2012, 47, 995-1003.	1.6	19
25	A New Model for Multiply Charged Adduct Formation Between Peptides and Anions in Electrospray Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2011, 22, 2125-2136.	2.8	13
26	The Asilomar Conference on Fundamentals of Atmospheric Pressure Ionization Techniques, October 8â€“12, 2010. Journal of the American Society for Mass Spectrometry, 2011, 22, 2282-2286.	2.8	0
27	Regioselective anion attachment leading to regiospecific decompositions of bifunctional steroids in negative ion electrospray tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2011, 25, 558-562.	1.5	6
28	Characterization of the Activities of the CpeY, CpeZ, and CpeS Bilin Lyases in Phycoerythrin Biosynthesis in Fremyella diplosiphon Strain UTEX 481. Journal of Biological Chemistry, 2011, 286, 35509-35521.	3.4	40
29	Enhanced Collision-Induced Decomposition Efficiency and Unraveling of Fragmentation Pathways for Anionic Adducts of Brevetoxins in Negative Ion Electrospray Mass Spectrometry. Analytical Chemistry, 2009, 81, 8826-8838.	6.5	31
30	Oligosaccharide analysis using anion attachment in negative mode electrospray mass spectrometry. Journal of the American Society for Mass Spectrometry, 2005, 16, 60-70.	2.8	86
31	Stabilization of Anionic Adducts in Negative Ion Electrospray Mass Spectrometry. Analytical Chemistry, 2002, 74, 985-991.	6.5	111
32	Evaluation of the role of multiple hydrogen bonding in offering stability to negative ion adducts in electrospray mass spectrometry. Journal of the American Society for Mass Spectrometry, 2002, 13, 1360-1369.	2.8	54
33	Ranking of gas-phase acidities and chloride affinities of monosaccharides and linkage specificity in collision-induced decompositions of negative ion electrospray-generated chloride adducts of oligosaccharides. Journal of the American Society for Mass Spectrometry, 2001, 12, 1193-1204.	2.8	79
34	Monitoring of immune response by blood serum profiling using matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. Journal of Mass Spectrometry, 2001, 36, 15-20.	1.6	10
35	Confirmation of the structure of lipid A fromEnterobacter agglomerans by electrospray ionization tandem mass spectrometry. , 2000, 35, 361-368.		28
36	Electrochemical processes in electrospray ionization mass spectrometry. Journal of Mass Spectrometry, 2000, 35, 939-952.	1.6	275

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37	Formation and decompositions of chloride adduct ions, [M + Cl]^{â^'}, in negative ion electrospray ionization mass spectrometry. Journal of the American Society for Mass Spectrometry, 2000, 11, 932-941.	2.8	152
38	Electrospray Ionization Tandem Mass Spectrometry for Structural Elucidation of Protonated Brevetoxins in Red Tide Algae. Analytical Chemistry, 2000, 72, 376-383.	6.5	31
39	Electrochemical processes in electrospray ionization mass spectrometry. Journal of Mass Spectrometry, 2000, 35, 939.	1.6	1
40	Polarizability and inductive effect contributions to solventâ€"cation binding observed in electrospray ionization mass spectrometry. Journal of the American Society for Mass Spectrometry, 1999, 10, 254-260.	2.8	15
41	Chloride anion attachment in negative ion electrospray ionization mass spectrometryâ€. Rapid Communications in Mass Spectrometry, 1999, 13, 607-611.	1.5	73
42	Solution Reactivity of Brevetoxins As Monitored by Electrospray Ionization Mass Spectrometry and Implications for Detoxification. Chemical Research in Toxicology, 1999, 12, 1268-1277.	3.3	10
43	Chloride anion attachment in negative ion electrospray ionization mass spectrometryâ€. Rapid Communications in Mass Spectrometry, 1999, 13, 607-611.	1.5	1
44	Rapid identification and speciation ofHaemophilus bacteria by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. , 1998, 33, 750-756.		120
45	SFE Plus C18Lipid Cleanup Method for Selective Extraction and GC/MS Quantitation of Polycyclic Aromatic Hydrocarbons in Biological Tissues. Analytical Chemistry, 1998, 70, 3242-3248.	6.5	32
46	Solvation Energy and Gas-Phase Stability Influences on Alkali Metal Cluster Ion Formation in Electrospray Ionization Mass Spectrometry. Analytical Chemistry, 1998, 70, 873-881.	6.5	75
47	Rapid identification and speciation of Haemophilus bacteria by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. , 1998, 33, 750.		1
48	On-Line Linear Sweep Voltammetryâ^'Electrospray Mass Spectrometry. Analytical Chemistry, 1997, 69, 2478-2484.	6.5	63
49	Micellar Electrokinetic Capillary Chromatography Method for Direct Determination of Herbicides in Lake Pontchartrain, Louisiana, Sediments. Environmental Science & Technology, 1997, 31, 3251-3257.	10.0	6
50	Desorption Behavior and Distributions of Fluorinated Polymers in MALDI and Electrospray Ionization Mass Spectrometry. Analytical Chemistry, 1997, 69, 2742-2750.	6.5	45
51	Multiple neutral alkali halide attachments onto oligosaccharides in electrospray ionization mass spectrometry. International Journal of Mass Spectrometry and Ion Processes, 1997, 162, 45-53.	1.8	32
52	Stereospecific Ion-Molecule Reactions of Nucleophilic Gas-phase Reagents with Protonated Bifunctional Tetracyclic Terpene Epimers in the Triple Quadrupole Collision Cell. Journal of Mass Spectrometry, 1997, 32, 413-419.	1.6	7
53	Electrospray Ionization Mass Spectrometry for Structural Characterization of the Lipid A Component in Bacterial Endotoxins. ACS Symposium Series, 1996, , 185-206.	0.5	5
54	On-Line Probe for Fast Electrochemistry/Electrospray Mass Spectrometry. Investigation of Polycyclic Aromatic Hydrocarbons. Analytical Chemistry, 1996, 68, 4244-4253.	6.5	82

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55	Acid and base hydrolysis of lipid A fromEnterobacter agglomerans as monitored by electrospray ionization mass spectrometry: Pertinence to detoxification mechanisms. , 1996, 31, 138-149.		19
56	Determination of amino acids by on-line capillary electrophoresis-electrospray ionization mass spectrometry. Electrophoresis, 1995, 16, 487-492.	2.4	45
57	Disparity between solution-phase equilibria and charge state distributions in positive-ion electrospray mass spectrometry. Organic Mass Spectrometry, 1994, 29, 419-427.	1.3	114
58	Electrospray mass spectrometry for characterization of lipid a fromEnterobacter agglomerans. Biological Mass Spectrometry, 1993, 22, 59-67.	0.5	40
59	Solvent effect on analyte charge state, signal intensity, and stability in negative ion electrospray mass spectrometry; implications for the mechanism of negative ion formation. Journal of the American Society for Mass Spectrometry, 1993, 4, 546-556.	2.8	98
60	Charge-state distributuion and electric-discharge suppression in negative-ion electrospray mass spectrometry using/chlorinated solvents. Rapid Communications in Mass Spectrometry, 1992, 6, 536-539.	1.5	55
61	252Cf plasma-desorption mass spectrometry of lipid a fromEnterobacter agglomerans. Rapid Communications in Mass Spectrometry, 1992, 6, 616-622.	1.5	11
62	Electrochemical processes in electrospray ionization mass spectrometry. , 0, .		1