

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	Electrochemical processes in electrospray ionization mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2000, 35, 939-952.	1.6	275
2	Formation and decompositions of chloride adduct ions, $[M + Cl]^{-}$, in negative ion electrospray ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2000, 11, 932-941.	2.8	152
3	Rapid identification and speciation of <i>Haemophilus</i> bacteria by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. , 1998, 33, 750-756.		120
4	Disparity between solution-phase equilibria and charge state distributions in positive-ion electrospray mass spectrometry. <i>Organic Mass Spectrometry</i> , 1994, 29, 419-427.	1.3	114
5	Stabilization of Anionic Adducts in Negative Ion Electrospray Mass Spectrometry. <i>Analytical Chemistry</i> , 2002, 74, 985-991.	6.5	111
6	An international laboratory comparison of dissolved organic matter composition by high resolution mass spectrometry: Are we getting the same answer?. <i>Limnology and Oceanography: Methods</i> , 2020, 18, 235-258.	2.0	109
7	Solvent effect on analyte charge state, signal intensity, and stability in negative ion electrospray mass spectrometry; implications for the mechanism of negative ion formation. <i>Journal of the American Society for Mass Spectrometry</i> , 1993, 4, 546-556.	2.8	98
8	Oligosaccharide analysis using anion attachment in negative mode electrospray mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2005, 16, 60-70.	2.8	86
9	On-Line Probe for Fast Electrochemistry/Electrospray Mass Spectrometry. Investigation of Polycyclic Aromatic Hydrocarbons. <i>Analytical Chemistry</i> , 1996, 68, 4244-4253.	6.5	82
10	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. <i>Journal of the American Society for Mass Spectrometry</i> , 2001, 12, 1193-1204.	2.8	79
11	Solvation Energy and Gas-Phase Stability Influences on Alkali Metal Cluster Ion Formation in Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 1998, 70, 873-881.	6.5	75
12	Chloride anion attachment in negative ion electrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1999, 13, 607-611.	1.5	73
13	On-Line Linear Sweep Voltammetry-Electrospray Mass Spectrometry. <i>Analytical Chemistry</i> , 1997, 69, 2478-2484.	6.5	63
14	Charge-state distribution and electric-discharge suppression in negative-ion electrospray mass spectrometry using chlorinated solvents. <i>Rapid Communications in Mass Spectrometry</i> , 1992, 6, 536-539.	1.5	55
15	Evaluation of the role of multiple hydrogen bonding in offering stability to negative ion adducts in electrospray mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2002, 13, 1360-1369.	2.8	54
16	Determination of amino acids by on-line capillary electrophoresis-electrospray ionization mass spectrometry. <i>Electrophoresis</i> , 1995, 16, 487-492.	2.4	45
17	Desorption Behavior and Distributions of Fluorinated Polymers in MALDI and Electrospray Ionization Mass Spectrometry. <i>Analytical Chemistry</i> , 1997, 69, 2742-2750.	6.5	45
18	Electrospray mass spectrometry for characterization of lipid a from <i>Enterobacter</i> agglomerans. <i>Biological Mass Spectrometry</i> , 1993, 22, 59-67.	0.5	40

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19	Characterization of the Activities of the CpeY, CpeZ, and CpeS Bilin Lyases in Phycoerythrin Biosynthesis in <i>Fremyella diplosiphon</i> Strain UTEX 481. <i>Journal of Biological Chemistry</i> , 2011, 286, 35509-35521.	3.4	40
20	Novel Fragmentation Pathways of Anionic Adducts of Steroids Formed by Electrospray Anion Attachment Involving Regioselective Attachment, Regiospecific Decompositions, Charge-Induced Pathways, and Ion-Dipole Complex Intermediates. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 1558-1568.	2.8	37
21	Multiple neutral alkali halide attachments onto oligosaccharides in electrospray ionization mass spectrometry. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997, 162, 45-53.	1.8	32
22	SFE Plus C18Lipid Cleanup Method for Selective Extraction and GC/MS Quantitation of Polycyclic Aromatic Hydrocarbons in Biological Tissues. <i>Analytical Chemistry</i> , 1998, 70, 3242-3248.	6.5	32
23	Electrospray Ionization Tandem Mass Spectrometry for Structural Elucidation of Protonated Brevetoxins in Red Tide Algae. <i>Analytical Chemistry</i> , 2000, 72, 376-383.	6.5	31
24	Enhanced Collision-Induced Decomposition Efficiency and Unraveling of Fragmentation Pathways for Anionic Adducts of Brevetoxins in Negative Ion Electrospray Mass Spectrometry. <i>Analytical Chemistry</i> , 2009, 81, 8826-8838.	6.5	31
25	Confirmation of the structure of lipid A from <i>Enterobacter agglomerans</i> by electrospray ionization tandem mass spectrometry. , 2000, 35, 361-368.		28
26	Combined use of direct analysis in real-time/Orbitrap mass spectrometry and micro-Raman spectroscopy for the comprehensive characterization of real explosive samples. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 5677-5687.	3.7	28
27	TUTORIAL: ION ACTIVATION IN TANDEM MASS SPECTROMETRY USING ULTRA-HIGH RESOLUTION INSTRUMENTATION. <i>Mass Spectrometry Reviews</i> , 2020, 39, 680-702.	5.4	24
28	Characterization of Fluorinated Polymers by Atmospheric-Solid-Analysis-Probe High-Resolution Mass Spectrometry (ASAP/HRMS) Combined with Kendrick-Mass-Defect Analysis. <i>Analytical Chemistry</i> , 2018, 90, 6035-6042.	6.5	21
29	Acid and base hydrolysis of lipid A from <i>Enterobacter agglomerans</i> as monitored by electrospray ionization mass spectrometry: Pertinence to detoxification mechanisms. , 1996, 31, 138-149.		19
30	9,10-Diphenylanthracene as a matrix for MALDI-MS electron transfer secondary reactions. <i>Journal of Mass Spectrometry</i> , 2012, 47, 995-1003.	1.6	19
31	Analysis of the volatile organic compounds in <i>Cinnamomum cassia</i> bark by direct sample introduction thermal desorption gas chromatography-mass spectrometry. <i>Journal of Essential Oil Research</i> , 2013, 25, 458-463.	2.7	17
32	PCR Incorporation of Polyoxometalate Modified Deoxynucleotide Triphosphates and Their Application in Molecular Electrochemical Sensing of <i>Yersinia pestis</i> . <i>Chemistry - A European Journal</i> , 2017, 23, 10597-10603.	3.3	17
33	Polarizability and inductive effect contributions to solvent-cation binding observed in electrospray ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 1999, 10, 254-260.	2.8	15
34	Low-energy collision-induced dissociation (low-energy CID), collision-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. <i>Journal of Mass Spectrometry</i> , 2018, 53, 705-716.	1.6	15
35	Negative Ion MALDI Mass Spectrometry of Polyoxometalates (POMs): Mechanism of Singly Charged Anion Formation and Chemical Properties Evaluation. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 1301-1313.	2.8	14
36	Experimental bond dissociation energies of benzylpyridinium thermometer ions determined by threshold-CID and RRKM modeling. <i>International Journal of Mass Spectrometry</i> , 2017, 417, 69-75.	1.5	14

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37	A New Model for Multiply Charged Adduct Formation Between Peptides and Anions in Electrospray Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 2125-2136.	2.8	13
38	Collision cell pressure effect on CID spectra pattern using triple quadrupole instruments: a RRKM modeling. <i>Journal of Mass Spectrometry</i> , 2013, 48, 179-186.	1.6	13
39	Improved Steroids Detection and Evidence for Their Regiospecific Decompositions Using Anion Attachment Mass Spectrometry. <i>Analytical Chemistry</i> , 2016, 88, 3585-3591.	6.5	12
40	Investigation of space charge effects and ion trapping capacity on direct introduction ultra-high resolution mass spectrometry workflows for metabolomics. <i>Journal of Mass Spectrometry</i> , 2020, 55, e4613.	1.6	12
41	252Cf plasma-desorption mass spectrometry of lipid A from <i>Enterobacter agglomerans</i> . <i>Rapid Communications in Mass Spectrometry</i> , 1992, 6, 616-622.	1.5	11
42	Solution Reactivity of Brevetoxins As Monitored by Electrospray Ionization Mass Spectrometry and Implications for Detoxification. <i>Chemical Research in Toxicology</i> , 1999, 12, 1268-1277.	3.3	10
43	Monitoring of immune response by blood serum profiling using matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2001, 36, 15-20.	1.6	10
44	Jean- <i>Antoine</i> Nollet: The father of experimental electrospray. <i>Mass Spectrometry Reviews</i> , 2014, 33, 418-423.	5.4	9
45	Stereospecific Ion-Molecule Reactions of Nucleophilic Gas-phase Reagents with Protonated Bifunctional Tetracyclic Terpene Epimers in the Triple Quadrupole Collision Cell. <i>Journal of Mass Spectrometry</i> , 1997, 32, 413-419.	1.6	7
46	Identification of Postblast Residues by DART-High Resolution Mass Spectrometry Combined with Multivariate Statistical Analysis of the Kendrick Mass Defect. <i>Analytical Chemistry</i> , 2019, 91, 8093-8100.	6.5	7
47	Investigation of activation energies for dissociation of host-guest complexes in the gas phase using low-energy collision induced dissociation. <i>Journal of Mass Spectrometry</i> , 2019, 54, 437-448.	1.6	7
48	Conformation pinning by anion attachment enabling separation of isomeric steroid monomers by ion mobility spectrometry. <i>Journal of Mass Spectrometry</i> , 2020, 55, .	1.6	7
49	Micellar Electrokinetic Capillary Chromatography Method for Direct Determination of Herbicides in Lake Pontchartrain, Louisiana, Sediments. <i>Environmental Science & Technology</i> , 1997, 31, 3251-3257.	10.0	6
50	Regioselective anion attachment leading to regiospecific decompositions of bifunctional steroids in negative ion electrospray tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 558-562.	1.5	6
51	Understanding paper degradation: identification of products of cellulosic paper decomposition at the wet-dry interface using GC-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 8133-8147.	3.7	6
52	Electrospray Ionization Mass Spectrometry for Structural Characterization of the Lipid A Component in Bacterial Endotoxins. <i>ACS Symposium Series</i> , 1996, , 185-206.	0.5	5
53	Best Match Model and Effect of Na ⁺ /H ⁺ Exchange on Anion Attachment to Peptides and Stability of Formed Adducts in Negative Ion Electrospray Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2014, 25, 204-213.	2.8	5
54	A systematic tandem mass spectrometric study of anion attachment for improved detection and acidity evaluation of nitrogen-rich energetic compounds. <i>Journal of Mass Spectrometry</i> , 2018, 53, 21-29.	1.6	3

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55	Investigation of Hemicryptophane Host-Guest Binding Energies Using High-Pressure Collision-Induced Dissociation in Combination with RRKM Modeling. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 509-518.	2.8	2
56	Evidence for ion-ion interactions between peptides and anions (HSO_4^-) <i>Talanta</i> , 2019, 197, 101-107.	1.6	1
57	Electrochemical processes in electrospray ionization mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2000, 35, 939.		1
58	Rapid identification and speciation of <i>Haemophilus</i> bacteria by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Journal of Mass Spectrometry</i> , 1998, 33, 750.		1
59	Chloride anion attachment in negative ion electrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1999, 13, 607-611.	1.5	1
60	Electrochemical processes in electrospray ionization mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2000, 35, 939.	1.6	1
61	The Asilomar Conference on Fundamentals of Atmospheric Pressure Ionization Techniques, October 8-12, 2010. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 2282-2286.	2.8	0
62	Direct differentiation of ring single attachment versus ring double attachment of phycoerythrobilin chromophores to phycobiliproteins using MALDI mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2013, 48, 187-192.	1.6	0