Hilkka I Kenttmaa

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

4,622 56 207 34 h-index g-index citations papers 6.6 5,203 211 5.57 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
207	Determining the Composition of Carbonate Solvent Systems Used in Lithium-Ion Batteries without Salt Removal. <i>Energies</i> , 2022 , 15, 2805	3.1	
206	Spin-Spin Coupling Controls the Gas-Phase Reactivity of Aromatic Type Triradicals. <i>Chemistry - A European Journal</i> , 2021 , 28, e202102968	4.8	O
205	Characterization of Protonated Substituted Ureas by Using Diagnostic Gas-Phase Ion-Molecule Reactions Followed by Collision-Activated Dissociation in Tandem Mass Spectrometry Experiments. <i>Analytical Chemistry</i> , 2021 , 93, 7851-7859	7.8	2
204	Identification of the carboxylic acid functionality in protonated drug metabolite model compounds by using tandem mass spectrometry based on ion-molecule reactions coupled with high performance liquid chromatography. <i>International Journal of Mass Spectrometry</i> , 2021 , 463, 116551	1.9	1
203	Determination of the Chemical Compositions of Condensate-like Oils with Different API Gravities by Using the Distillation, Precipitation, Fractionation Mass Spectrometry (DPF MS) Method. <i>Energy & Mather Barrens</i> 8646-8656	4.1	1
202	Reactivity of para-benzynes in solution and in the gas phase. <i>Tetrahedron Letters</i> , 2021 , 74, 153161	2	1
201	Compositional analysis of organosolv poplar lignin by using high-performance liquid chromatography/high-resolution multi-stage tandem mass spectrometry. <i>Green Chemistry</i> , 2021 , 23, 983-1000	10	3
200	Modulating the radical reactivity of phenyl radicals with the help of distonic charges: it is all about electrostatic catalysis. <i>Chemical Science</i> , 2021 , 12, 4800-4809	9.4	5
199	Evaluation of process severity on the chemical composition of organosolv switchgrass lignins by using mass spectrometry. <i>Green Chemistry</i> , 2021 , 23, 4024-4033	10	2
198	Protonated Ground-State Singlet -Pyridynes React from an Excited Triplet State. <i>Journal of Organic Chemistry</i> , 2021 , 86, 3249-3260	4.2	O
197	Characterization of ionized lignin model compounds with ⊞0-4 linkages by positive- and negative-ion mode electrospray ionization tandem mass spectrometry based on collision-activated dissociation. <i>Rapid Communications in Mass Spectrometry</i> , 2021 , 35, e9057	2.2	О
196	Study on the Gas-Phase Reactivity of Charged Pyridynes. Journal of Organic Chemistry, 2021, 86, 9979-9	9.9.3	1
195	Determination of the compound class and functional groups in protonated analytes via diagnostic gas-phase ion-molecule reactions. <i>Mass Spectrometry Reviews</i> , 2021 ,	11	1
194	Fast Determination of the Lignin Monomer Compositions of Genetic Variants of Poplar Fast Pyrolysis/Atmospheric Pressure Chemical Ionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2021 , 32, 2546-2551	3.5	0
193	Factors Affecting the Limit of Detection for HPLC/Tandem Mass Spectrometry Experiments Based on Gas-Phase Ion-Molecule Reactions. <i>Analytical Chemistry</i> , 2020 , 92, 7471-7477	7.8	6
192	Fragmentation of Saturated Hydrocarbons upon Atmospheric Pressure Chemical Ionization Is Caused by Proton-Transfer Reactions. <i>Analytical Chemistry</i> , 2020 , 92, 8883-8892	7.8	7
191	Effects of the Distance between Radical Sites on the Reactivities of Aromatic Biradicals. <i>Journal of Organic Chemistry</i> , 2020 , 85, 8415-8428	4.2	4

(2019-2020)

190	Distinguishing Isomeric Aromatic Radical Cations by Using Energy-Resolved Ion Trap and Medium Energy Collision-Activated Dissociation Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2020 , 31, 58-65	3.5	1	
189	A review of aviation turbine fuel chemical composition-property relations. <i>Fuel</i> , 2020 , 268, 117391	7.1	22	
188	Measurement of the Proton Affinities of a Series of Mono- and Biradicals of Pyridine. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8679-8687	16.4	6	
187	Determination of jet fuel system icing inhibitor by GCLC-FID. <i>Talanta</i> , 2020 , 218, 121146	6.2	1	
186	Analyzing and Tuning the Chalcogen-Amine-Thiol Complexes for Tailoring of Chalcogenide Syntheses. <i>Inorganic Chemistry</i> , 2020 , 59, 8240-8250	5.1	6	
185	Effects of Residual Water in a Linear Quadrupole Ion Trap on the Protonation Sites of 4-Aminobenzoic Acid. <i>Journal of the American Society for Mass Spectrometry</i> , 2020 , 31, 124-131	3.5	7	
184	Bias, limit of detection, and limit of quantitation for the ASTM D2425 method updated in 2019. Journal of Chromatography A, 2020 , 1614, 460705	4.5	2	
183	Losses of CO and CO2 upon collision-activated dissociation of substituted 2-methoxyphenoxides after methyl radical loss. <i>International Journal of Mass Spectrometry</i> , 2020 , 456, 116397	1.9	1	
182	Graph-based machine learning interprets and predicts diagnostic isomer-selective ion-molecule reactions in tandem mass spectrometry. <i>Chemical Science</i> , 2020 , 11, 11849-11858	9.4	5	
181	Studies of the Fragmentation Mechanisms of Deprotonated Lignin Model Compounds in Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2020 , 92, 11895-11903	7.8	4	
180	Direct functionalization of C-H bonds by electrophilic anions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 23374-23379	11.5	9	
179	Effects of Analyte Concentration on the Protonation Sites of 4-Aminobenzoic Acid upon Atmospheric Pressure Chemical Ionization As Revealed by Gas-Phase Ion-Molecule Reactions. <i>Journal of the American Society for Mass Spectrometry</i> , 2020 , 31, 2210-2217	3.5	1	
178	Free-Radical-Mediated Glycan Isomer Differentiation. <i>Analytical Chemistry</i> , 2020 , 92, 13794-13802	7.8	9	
177	Comparison of three different analytical protocols for 2019 updated D2425 method for renewable jet fuel product certification analysis. <i>Journal of Chromatography A</i> , 2020 , 1634, 461667	4.5	0	
176	An Automated Method for Chemical Composition Analysis of Lubricant Base Oils by Using Atmospheric Pressure Chemical Ionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2019 , 30, 2014-2021	3.5	5	
175	Exploring the Reaction Mechanisms of Fast Pyrolysis of Xylan Model Compounds via Tandem Mass Spectrometry and Quantum Chemical Calculations. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 9149-915	57 ^{.8}	9	
174	Spin-Spin Coupling Between Two meta-Benzyne Moieties In a Quinolinium Tetraradical Cation Increases Their Reactivities. <i>Chemistry - A European Journal</i> , 2019 , 25, 4472-4477	4.8	5	
173	Identification of Protonated Primary Carbamates by Using Gas-Phase IonMolecule Reactions Followed by Collision-Activated Dissociation in Tandem Mass Spectrometry Experiments. <i>Organic Process Research and Development</i> , 2019 , 23, 1159-1166	3.9	2	

172	Molecular-Level Understanding of the Major Fragmentation Mechanisms of Cellulose Fast Pyrolysis: An Experimental Approach Based on Isotopically Labeled Model Compounds. <i>Journal of Organic Chemistry</i> , 2019 , 84, 7037-7050	4.2	6
171	Laser-induced acoustic desorption. MRS Bulletin, 2019, 44, 372-381	3.2	8
170	Relative Reactivities of Three Isomeric Aromatic Biradicals with a 1,4-Biradical Topology Are Controlled by Polar Effects. <i>Chemistry - A European Journal</i> , 2019 , 25, 6355-6361	4.8	7
169	Impact of Alternative Fuel Blending Components on Fuel Composition and Properties in Blends with Jet A. <i>Energy & Double Blends</i> , 2019, 33, 3275-3289	4.1	14
168	Densities, Viscosities, Speeds of Sound, Bulk Moduli, Surface Tensions, and Flash Points of Quaternary Mixtures of n-Dodecane (1), n-Butylcyclohexane (2), n-Butylbenzene (3), and 2,2,4,4,6,8,8-Heptamethylnonane (4) at 0.1 MPa as Potential Surrogate Mixtures for Military Jet Fuel, JP-5. Journal of Chemical & Data, 2019, 64, 1725-1745	2.8	20
167	Quinoline Triradicals: A Reactivity Study. <i>Journal of the American Chemical Society</i> , 2019 , 141, 6672-667	916.4	4
166	How to obtain a detailed chemical composition for middle distillates via GC IGC-FID without the need of GC IGC-TOF/MS. <i>Fuel</i> , 2019 , 247, 368-377	7.1	14
165	Investigation of the relative abundances of single-core and multicore compounds in asphaltenes by using high-resolution in-source collision-activated dissociation and medium-energy collision-activated dissociation mass spectrometry with statistical considerations. <i>Fuel</i> , 2019 , 246, 126-	7.1 132	15
164	Determination of the chemical compositions of heavy, medium, and light crude oils by using the Distillation, Precipitation, Fractionation Mass Spectrometry (DPF MS) method. <i>Fuel</i> , 2019 , 255, 115852	7.1	5
163	Differentiation of Deprotonated Acyl-, -, and -Glucuronide Drug Metabolites by Using Tandem Mass Spectrometry Based on Gas-Phase Ion-Molecule Reactions Followed by Collision-Activated Dissociation. <i>Analytical Chemistry</i> , 2019 , 91, 11388-11396	7.8	5
162	Integration of a Multichannel Pulsed-Valve Inlet System to a Linear Quadrupole Ion Trap Mass Spectrometer for the Rapid Consecutive Introduction of Nine Reagents for Diagnostic Ion/Molecule Reactions. <i>Analytical Chemistry</i> , 2019 , 91, 15652-15660	7.8	6
161	Identification and Quantitation of Linear Alkanes in Lubricant Base Oils by Using GCLC/EI TOF Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2019 , 30, 2670-2677	3.5	9
160	Jet fuel density via GC [GC-FID. <i>Fuel</i> , 2019 , 235, 1052-1060	7.1	24
159	The capability of organic compounds to swell acrylonitrile butadiene O-rings and their effects on O-ring mechanical properties. <i>Fuel</i> , 2019 , 238, 483-492	7.1	6
158	Recent Advances in Petroleum Analysis by Mass Spectrometry. <i>Analytical Chemistry</i> , 2019 , 91, 156-177	7.8	49
157	Reactivity of organic IIII pentaradicals. International Journal of Mass Spectrometry, 2019, 435, 280-290	1.9	4
156	Renewable thermoset polymers based on lignin and carbohydrate derived monomers. <i>Green Chemistry</i> , 2018 , 20, 1131-1138	10	46
155	Ion/molecule reactions of dimethylamine with protonated analytes facilitate the identification of tertiary N-oxide functionalities in a linear quadrupole ion trap mass spectrometer. <i>International Journal of Mass Spectrometry</i> , 2018 , 429, 142-150	1.9	3

154	Differentiating Isomeric Deprotonated Glucuronide Drug Metabolites via Ion/Molecule Reactions in Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2018 , 90, 9426-9433	7.8	10	
153	Middle distillates hydrogen content via GCCC-FID. <i>Talanta</i> , 2018 , 186, 140-146	6.2	25	
152	Effects of hydrogen bonding on the gas-phase reactivity of didehydroisoquinolinium cation isomers. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 21567-21572	3.6	1	
151	Molecular profiling of crude oil by using Distillation Precipitation Fractionation Mass Spectrometry (DPF-MS). <i>Fuel</i> , 2018 , 234, 492-501	7.1	6	
150	Substituent Effects on the Reactivity of the 2,4,6-Tridehydropyridinium Cation, an Aromatic Intrinadical. <i>European Journal of Organic Chemistry</i> , 2018 , 2018, 6582-6589	3.2	5	
149	Impact of HEFA Feedstocks on Fuel Composition and Properties in Blends with Jet A. <i>Energy & Energy & Enels</i> , 2018 , 32, 11595-11606	4.1	18	
148	Dehydration Pathways for Glucose and Cellobiose During Fast Pyrolysis. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 8071-8085	2.8	18	
147	Polar Effects Control the Gas-Phase Reactivity of para-Benzyne Analogs. <i>ChemPhysChem</i> , 2018 , 19, 28	39 ₃ 2847	2 2	
146	Tandem mass spectrometric evaluation of core structures of aromatic compounds after catalytic deoxygenation. <i>Fuel Processing Technology</i> , 2018 , 176, 119-123	7.2	35	
145	Mechanism of Me-Re Bond Addition to Platinum(II) and Dioxygen Activation by the Resulting Pt-Re Bimetallic Center. <i>Inorganic Chemistry</i> , 2017 , 56, 2145-2152	5.1	9	
144	Laser-Induced Acoustic Desorption/Electron Ionization of Amino Acids and Small Peptides. <i>Journal of the American Society for Mass Spectrometry</i> , 2017 , 28, 1091-1098	3.5	5	
143	Identification of Protonated Sulfone and Aromatic Carboxylic Acid Functionalities in Organic Molecules by Using Ion-Molecule Reactions Followed by Collisionally Activated Dissociation in a Linear Quadrupole Ion Trap Mass Spectrometer. <i>Analytical Chemistry</i> , 2017 , 89, 7398-7405	7.8	10	
142	An Oxygen-peri-Bridged Quinolinium Cation and Its Monoradical Counterpart. <i>European Journal of Organic Chemistry</i> , 2017 , 2017, 1407-1412	3.2	4	
141	Initial Products and Reaction Mechanisms for Fast Pyrolysis of Synthetic G-Lignin Oligomers with \bigcirc 0-4 Linkages via On-Line Mass Spectrometry and Quantum Chemical Calculations. <i>ChemistrySelect</i> , 2017 , 2, 7185-7193	1.8	6	
140	Identification of Carboxylate, Phosphate, and Phenoxide Functionalities in Deprotonated Molecules Related to Drug Metabolites via Ion-Molecule Reactions with water and Diethylhydroxyborane. <i>Journal of the American Society for Mass Spectrometry</i> , 2017 , 28, 2189-2200	3.5	7	
139	Analysis of Catalytic Hydrothermal Conversion Jet Fuel and Surrogate Mixture Formulation: Components, Properties, and Combustion. <i>Energy & Energy </i>	4.1	28	
138	Speciation of CuCl and CuCl Thiol-Amine Solutions and Characterization of Resulting Films: Implications for Semiconductor Device Fabrication. <i>Inorganic Chemistry</i> , 2017 , 56, 14396-14407	5.1	20	
137	(-)ESI/CAD MS Procedure for Sequencing Lignin Oligomers Based on a Study of Synthetic Model Compounds with ₱0-4 and 5-5 Linkages. <i>Analytical Chemistry</i> , 2017 , 89, 13089-13096	7.8	15	

136	Gas-phase Reactivity of meta-Benzyne Analogs Toward Small Oligonucleotides of Differing Lengths. <i>Journal of the American Society for Mass Spectrometry</i> , 2017 , 28, 1392-1405	3.5	1
135	Alkali Cation Chelation in Cold ₱0-4 Tetralignol Complexes. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 7152-66	2.8	3
134	Maleic acid and aluminum chloride catalyzed conversion of glucose to 5-(hydroxymethyl) furfural and levulinic acid in aqueous media. <i>Green Chemistry</i> , 2016 , 18, 5219-5229	10	86
133	Gas-phase ion-molecule reactions for the identification of the sulfone functionality in protonated analytes in a linear quadrupole ion trap mass spectrometer. <i>Rapid Communications in Mass Spectrometry</i> , 2016 , 30, 1435-41	2.2	8
132	Characterization of Asphaltene Deposits by Using Mass Spectrometry and Raman Spectroscopy. Energy & Energy & E	4.1	32
131	Identification of N-Oxide and Sulfoxide Functionalities in Protonated Drug Metabolites by Using Ion-Molecule Reactions Followed by Collisionally Activated Dissociation in a Linear Quadrupole Ion Trap Mass Spectrometer. <i>Journal of Organic Chemistry</i> , 2016 , 81, 575-86	4.2	17
130	Mechanistic investigation of the Zn/Pd/C catalyzed cleavage and hydrodeoxygenation of lignin. <i>Green Chemistry</i> , 2016 , 18, 2399-2405	10	86
129	Total Utilization of Miscanthus Biomass, Lignin and Carbohydrates, Using Earth Abundant Nickel Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 2316-2322	8.3	138
128	Characterization of aromatic organosulfur model compounds relevant to fossil fuels by using atmospheric pressure chemical ionization with CS2 and high-resolution tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2016 , 30, 953-62	2.2	13
127	Reactivity Controlling Factors for an Aromatic Carbon-Centered Intrinadical: The 4,5,8-Tridehydroisoquinolinium Ion. <i>Chemistry - A European Journal</i> , 2016 , 22, 809-15	4.8	5
126	A Fundamental Tandem Mass Spectrometry Study of the Collision-Activated Dissociation of Small Deprotonated Molecules Related to Lignin. <i>ChemSusChem</i> , 2016 , 9, 3513-3526	8.3	10
125	Comparison of Atmospheric Pressure Chemical Ionization and Field Ionization Mass Spectrometry for the Analysis of Large Saturated Hydrocarbons. <i>Analytical Chemistry</i> , 2016 , 88, 10592-10598	7.8	29
124	Identification of the Phenol Functionality in Deprotonated Monomeric and Dimeric Lignin Degradation Products via Tandem Mass Spectrometry Based on Ion-Molecule Reactions with Diethylmethoxyborane. <i>Journal of the American Society for Mass Spectrometry</i> , 2016 , 27, 1813-1823	3.5	10
123	Gas-phase reactions of a novel chemical ionization reagent, ClMn2+, with polar and nonpolar analytes in a linear quadrupole ion trap. <i>International Journal of Mass Spectrometry</i> , 2015 , 378, 206-211	1.9	3
122	Identification of 2-aminothiazolobenzazepine metabolites in human, rat, dog, and monkey microsomes by ion-molecule reactions in linear quadrupole ion trap mass spectrometry. <i>Drug Metabolism and Disposition</i> , 2015 , 43, 358-66	4	8
121	A Mimivirus Enzyme that Participates in Viral Entry. Structure, 2015 , 23, 1058-65	5.2	16
120	Speciation and kinetic study of iron promoted sugar conversion to 5-hydroxymethylfurfural (HMF) and levulinic acid (LA). <i>Organic Chemistry Frontiers</i> , 2015 , 2, 1388-1396	5.2	40
119	A synergistic biorefinery based on catalytic conversion of lignin prior to cellulose starting from lignocellulosic biomass. <i>Green Chemistry</i> , 2015 , 17, 1492-1499	10	299

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118	Polar Effects Control the Gas-phase Reactivity of Charged -Benzyne Analogs. <i>International Journal of Mass Spectrometry</i> , 2015 , 377, 39-43	1.9	6	
117	Mass spectrometric studies of fast pyrolysis of cellulose. <i>European Journal of Mass Spectrometry</i> , 2015 , 21, 321-6	1.1	7	
116	Mass spectrometric identification of the N-monosubstituted N-hydroxylamino functionality in protonated analytes via ion/molecule reactions in tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2015 , 29, 730-4	2.2	9	
115	Structural Comparison of Asphaltenes of Different Origins Using Multi-stage Tandem Mass Spectrometry. <i>Energy & Different Origins Using Multi-stage Tandem Mass Spectrometry</i> . <i>Energy & Different Origins Using Multi-stage Tandem Mass Spectrometry</i> .	4.1	30	
114	Fast pyrolysis of 13C-labeled cellobioses: gaining insights into the mechanisms of fast pyrolysis of carbohydrates. <i>Journal of Organic Chemistry</i> , 2015 , 80, 1909-14	4.2	31	
113	Tandem mass spectrometric characterization of the conversion of xylose to furfural. <i>Biomass and Bioenergy</i> , 2015 , 74, 1-5	5.3	8	
112	Tailoring Biomass for Biochemical, Chemical or Thermochemical Catalytic Conversion. <i>FASEB Journal</i> , 2015 , 29, 485.3	0.9		
111	On the factors that control the reactivity of meta-benzynes. <i>Chemical Science</i> , 2014 , 5, 2205-2215	9.4	21	
110	Identification of the sulfoxide functionality in protonated analytes via ion/molecule reactions in linear quadrupole ion trap mass spectrometry. <i>Analyst, The</i> , 2014 , 139, 4296-302	5	9	
109	Characterization of organosolv switchgrass lignin by using high performance liquid chromatography/high resolution tandem mass spectrometry using hydroxide-doped negative-ion mode electrospray ionization. <i>Green Chemistry</i> , 2014 , 16, 2713-2727	10	69	
108	Multiported pulsed valve interface for a linear quadrupole ion trap mass spectrometer to enable rapid screening of multiple functional-group selective ion-molecule reactions. <i>Analytical Chemistry</i> , 2014 , 86, 6533-9	7.8	10	
107	Elucidation of structural information achievable for asphaltenes via collision-activated dissociation of their molecular ions in MSn experiments: A model compound study. <i>Fuel</i> , 2014 , 133, 106-114	7.1	30	
106	Identification of the sulfone functionality in protonated analytes via ion/molecule reactions in a linear quadrupole ion trap mass spectrometer. <i>Journal of Organic Chemistry</i> , 2014 , 79, 2883-9	4.2	14	
105	Comparison of the reactivity of the three distonic isomers of the pyridine radical cation toward tetrahydrofuran in solution and in the gas phase. <i>Journal of the American Society for Mass Spectrometry</i> , 2013 , 24, 469-80	3.5	8	
104	Analysis of xyloglucans by ambient chloride attachment ionization tandem mass spectrometry. <i>Carbohydrate Polymers</i> , 2013 , 98, 1203-13	10.3	16	
103	A differentially pumped dual linear quadrupole ion trap (DLQIT) mass spectrometer: a mass spectrometer capable of MS(n) experiments free from interfering reactions. <i>Analytical Chemistry</i> , 2013 , 85, 11284-90	7.8	12	
102	Properties and reactivity of gaseous distonic radical ions with aryl radical sites. <i>Chemical Reviews</i> , 2013 , 113, 6949-85	68.1	39	
101	Cleavage and hydrodeoxygenation (HDO) of CD bonds relevant to lignin conversion using Pd/Zn synergistic catalysis. <i>Chemical Science</i> , 2013 , 4, 806-813	9.4	262	

100	Mechanism of MTO-Catalyzed Deoxydehydration of Diols to Alkenes Using Sacrificial Alcohols. Organometallics, 2013 , 32, 3210-3219	3.8	58
99	Comparison of the Structures of Molecules in Coal and Petroleum Asphaltenes by Using Mass Spectrometry. <i>Energy & Dolorowski</i> 2013, 27, 3653-3658	4.1	48
98	Analysis of carbohydrates by atmospheric pressure chloride anion attachment tandem mass spectrometry. <i>Fuel</i> , 2013 , 105, 235-246	7.1	15
97	On-line mass spectrometric methods for the determination of the primary products of fast pyrolysis of carbohydrates and for their gas-phase manipulation. <i>Analytical Chemistry</i> , 2013 , 85, 10927-	3 7 .8	33
96	Does the 2,6-didehydropyridinium cation exist?. <i>Journal of Physical Organic Chemistry</i> , 2013 , 26, 707-71	42.1	11
95	Experimental and computational studies on the formation of three para-benzyne analogues in the gas phase. <i>Chemistry - A European Journal</i> , 2013 , 19, 9022-33	4.8	12
94	Effects of a hydroxyl substituent on the reactivity of the 2,4,6-tridehydropyridinium cation, an aromatic [#triradical. <i>Chemistry - A European Journal</i> , 2012 , 18, 969-74	4.8	9
93	Identification of epoxide functionalities in protonated monofunctional analytes by using ion/molecule reactions and collision-activated dissociation in different ion trap tandem mass spectrometers. <i>Journal of the American Society for Mass Spectrometry</i> , 2012 , 23, 12-22	3.5	20
92	Substituent effects on the nonradical reactivity of 4-dehydropyridinium cation. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 3089-93	2.8	6
91	Identification and Counting of Oxygen Functionalities and Alkyl Groups of Aromatic Analytes in Mixtures by Positive-Mode Atmospheric Pressure Chemical Ionization Tandem Mass Spectrometry Coupled with High-Performance Liquid Chromatography. <i>Energy & Damp; Fuels</i> , 2012 , 26, 2975-2989	4.1	11
90	High-performance liquid chromatography/high-resolution multiple stage tandem mass spectrometry using negative-ion-mode hydroxide-doped electrospray ionization for the characterization of lignin degradation products. <i>Analytical Chemistry</i> , 2012 , 84, 6000-7	7.8	85
89	Reactivity of a material society, 2012 , 134, 1926-9	16.4	12
88	Separation of Asphaltenes by Reversed-Phase Liquid Chromatography with Fraction Characterization. <i>Energy & Description</i> 26, 2850-2857	4.1	21
87	Ion-molecule reactions for the differentiation of primary, secondary and tertiary hydroxyl functionalities in protonated analytes in a tandem mass spectrometer. <i>Analyst, The</i> , 2012 , 137, 5720-2	5	11
86	A novel chemical ionization reagent ion for organic analytes: the aquachloromanganese(II) cation [ClMn(H2O)+]. <i>Rapid Communications in Mass Spectrometry</i> , 2012 , 26, 940-2	2.2	2
85	Reactivity of the 4,5-didehydroisoquinolinium cation. <i>Chemistry - A European Journal</i> , 2012 , 18, 8692-8	4.8	11
84	HPLC/APCI mass spectrometry of saturated and unsaturated hydrocarbons by using hydrocarbon solvents as the APCI reagent and HPLC mobile phase. <i>Journal of the American Society for Mass Spectrometry</i> , 2012 , 23, 816-22	3.5	30
83	Characterization of model compounds of processed lignin and the lignome by using atmospheric pressure ionization tandem mass spectrometry. <i>Fuel</i> , 2012 , 95, 634-641	7.1	41

82	Comparison of functional group selective ion-molecule reactions of trimethyl borate in different ion trap mass spectrometers. <i>Journal of the American Society for Mass Spectrometry</i> , 2011 , 22, 520-30	3.5	18
81	Differentiation of regioisomeric aromatic ketocarboxylic acids by positive mode atmospheric pressure chemical ionization collision-activated dissociation tandem mass spectrometry in a linear quadrupole ion trap mass spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> ,	3.5	12
80	Carbon disulfide reagent allows the characterization of nonpolar analytes by atmospheric pressure chemical ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2011 , 25, 1924-8	2.2	24
79	Influence of hydrogen bonding on hydrogen-atom abstraction reactions of dehydropyridinium cations in the gas phase. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 12851-7	2.8	4
78	Differentiation of Isomeric Hydrocarbons by Using [ClMn(H2O)]+ Chemical Ionization and Collision-Activated Dissociation in a Fourier Transform Ion Cyclotron Resonance Mass Spectrometer. <i>Energy & Dissociation</i> , 24, 3119-3124	4.1	3
77	Identification and counting of carbonyl and hydroxyl functionalities in protonated bifunctional analytes by using solution derivatization prior to mass spectrometric analysis via ion-molecule reactions. <i>Journal of the American Society for Mass Spectrometry</i> , 2010 , 21, 773-84	3.5	12
76	Liquid chromatography/tandem mass spectrometry utilizing ion-molecule reactions and collision-activated dissociation for the identification of N-oxide drug metabolites. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010 , 51, 805-11	3.5	10
75	Iontholecule reactions facilitate the identification and differentiation of primary, secondary and tertiary amino functionalities in protonated monofunctional analytes in mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2009 , 282, 77-84	1.9	14
74	An ion/molecule reaction for the identification of analytes with two basic functional groups. Journal of the American Society for Mass Spectrometry, 2009 , 20, 1251-62	3.5	10
73	Gas-phase reactivity of protonated 2-, 3-, and 4-dehydropyridine radicals toward organic reagents. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 13663-74	2.8	20
72	Identification of aliphatic and aromatic tertiary N-oxide functionalities in protonated analytes via ion/molecule and dissociation reactions in an FT-ICR mass spectrometer. <i>Journal of Organic Chemistry</i> , 2009 , 74, 1114-23	4.2	19
71	Correlation of hydrogen-atom abstraction reaction efficiencies for aryl radicals with their vertical electron affinities and the vertical ionization energies of the hydrogen-atom donors. <i>Journal of the American Chemical Society</i> , 2008 , 130, 17697-709	16.4	38
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