# Hilkka I KenttÃ¤maa

List of Publications by Year
in descending order



| 210 | 5,641 | 94269 37 | 118652 62 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 211 | 211 | 211 | 4023 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A synergistic biorefinery based on catalytic conversion of lignin prior to cellulose starting from lignocellulosic biomass. Green Chemistry, 2015, 17, 1492-1499. | 4.6 | 370 |
| 2 | Cleavage and hydrodeoxygenation (HDO) of Câ€"O bonds relevant to lignin conversion using Pd/Zn synergistic catalysis. Chemical Science, 2013, 4, 806-813. | 3.7 | 294 |
| 3 | Ion-molecule reactions of distonic radical cations. Chemical Reviews, 1992, 92, 1649-1665. | 23.0 | 265 |
| 4 | Total Utilization of Miscanthus Biomass, Lignin and Carbohydrates, Using Earth Abundant Nickel Catalyst. ACS Sustainable Chemistry and Engineering, 2016, 4, 2316-2322. | 3.2 | 182 |
| 5 | Mechanistic investigation of the Zn/Pd/C catalyzed cleavage and hydrodeoxygenation of lignin. Green Chemistry, 2016, 18, 2399-2405. | 4.6 | 119 |
| 6 | Maleic acid and aluminum chloride catalyzed conversion of glucose to 5-(hydroxymethyl) furfural and levulinic acid in aqueous media. Green Chemistry, 2016, 18, 5219-5229. | 4.6 | 110 |
| 7 | 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. Analytical Chemistry, 2012, 84, 6000-6007. | 3.2 | 94 |
| 8 | Energy deposition in [Fe(CO)5]+Ë™ upon collision with a metal surface. Organic Mass Spectrometry, 1986, 21, 193-195. | 1.3 | 87 |
| 9 | An Experimental and Computational Study of the Gas-Phase Structures of Five-Carbon Monosaccharides. Journal of Physical Chemistry A, 2002, 106, 6754-6764. | 1.1 | 78 |
| 10 | Characterization of organosolv switchgrass lignin by using high performance liquid chromatography/high resolution tandem mass spectrometry using hydroxide-doped negative-ion mode electrospray ionization. Green Chemistry, 2014, 16, 2713-2727. | 4.6 | 78 |
| 11 | Charged Phenyl Radicals. Journal of the American Chemical Society, 1996, 118, 8669-8676. | 6.6 | 73 |
| 12 | Recent Advances in Petroleum Analysis by Mass Spectrometry. Analytical Chemistry, 2019, 91, 156-177. | 3.2 | 73 |
| 13 | Mechanism of MTO-Catalyzed Deoxydehydration of Diols to Alkenes Using Sacrificial Alcohols. Organometallics, 2013, 32, 3210-3219. | 1.1 | 69 |
| 14 | Long-lived distonic radical cations. Organic Mass Spectrometry, 1994, 29, 1-10. | 1.3 | 67 |
| 15 | Renewable thermoset polymers based on lignin and carbohydrate derived monomers. Green Chemistry, 2018, 20, 1131-1138. | 4.6 | 65 |
| 16 | Identification of the Carboxylic Acid Functionality by Using Electrospray Ionization and Ionâˆ'Molecule Reactions in a Modified Linear Quadrupole Ion Trap Mass Spectrometer. Analytical Chemistry, 2008, 80, 3416-3421. | 3.2 | 60 |
| 17 | Polar Effects Control Hydrogen-Abstraction Reactions of Charged, Substituted Phenyl Radicals. Journal of Physical Chemistry A, 2001, 105, 7875-7884. | 1.1 | 58 |
| 18 | Comparison of the Structures of Molecules in Coal and Petroleum Asphaltenes by Using Mass Spectrometry. Energy & Fuels, 2013, 27, 3653-3658. | 2.5 | 58 |

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|---|---|---|---|
| 19 | The Long-Lived Radical Cations of Simple Carbon Esters Isomerize to the Lowest-Energy Structure. Journal of the American Chemical Society, 1994, 116, 3028-3038. | 6.6 | 56 |
| 20 | Reactivity of a Substitutedm-Benzyne Biradical. Journal of the American Chemical Society, 1999, 121, 800-805. | 6.6 | 55 |
| 21 | Fluorine Substitution Enhances the Reactivity of Substituted Phenyl Radicals toward Organic Hydrogen Atom Donors. Journal of the American Chemical Society, 1996, 118, 5056-5061. | 6.6 | 49 |
| 22 | Properties and Reactivity of Gaseous Distonic Radical Ions with Aryl Radical Sites. Chemical Reviews, 2013, 113, 6949-6985. | 23.0 | 49 |
| 23 | Characterization of model compounds of processed lignin and the lignome by using atmospheric pressure ionization tandem mass spectrometry. Fuel, 2012, 95, 634-641. | 3.4 | 47 |
| 24 | Characterization of Asphaltene Deposits by Using Mass Spectrometry and Raman Spectroscopy. Energy & Fuels, 2016, 30, 805-809. | 2.5 | 47 |
| 25 | Jet fuel density via GCâ€¯Ã—â€¯GC-FID. Fuel, 2019, 235, 1052-1060. | 3.4 | 47 |
| 26 | 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. Journal of the American Chemical Society, 2008, 130, 17697-17709. | 6.6 | 46 |
| 27 | Speciation and kinetic study of iron promoted sugar conversion to 5-hydroxymethylfurfural (HMF) and levulinic acid (LA). Organic Chemistry Frontiers, 2015, 2, 1388-1396. | 2.3 | 46 |
| 28 | Theoretical Estimations of the 298 K Gas-Phase Acidities of the Pyrimidine-Based Nucleobases Uracil, Thymine, and Cytosine. Journal of Physical Chemistry A, 2003, 107, 4893-4897. | 1.1 | 45 |
| 29 | A review of aviation turbine fuel chemical composition-property relations. Fuel, 2020, 268, 117391. | 3.4 | 45 |
| 30 | Comparison of Atmospheric Pressure Chemical Ionization and Field Ionization Mass Spectrometry for the Analysis of Large Saturated Hydrocarbons. Analytical Chemistry, 2016, 88, 10592-10598. | 3.2 | 44 |
| 31 | Chemical Properties of apara-Benzyne. Journal of the American Chemical Society, 2002, 124, 12066-12067. | 6.6 | 42 |
| 32 | On-Line Mass Spectrometric Methods for the Determination of the Primary Products of Fast Pyrolysis of Carbohydrates and for Their Gas-Phase Manipulation. Analytical Chemistry, 2013, 85, 10927-10934. | 3.2 | 41 |
| 33 | Polarity of the Transition State Controls the Reactivity of Related Charged Phenyl Radicals Toward Atom and Group Donors. Journal of Organic Chemistry, 2001, 66, 2726-2733. | 1.7 | 40 |
| 34 | Theoretical Estimations of the 298 K Gas-Phase Acidities of the Purine-Based Nucleobases Adenine and Guanine. Journal of Physical Chemistry A, 2004, 108, 4485-4490. | 1.1 | 40 |
| 35 | Ionâ˜'Molecule Reactions for the Characterization of Polyols and Polyol Mixtures by ESI/FT-ICR Mass Spectrometry. Analytical Chemistry, 2005, 77, 1385-1392. | 3.2 | 40 |
| 36 | HPLC/APCI Mass Spectrometry of Saturated and Unsaturated Hydrocarbons by Using Hydrocarbon Solvents as the APCI Reagent and HPLC Mobile Phase. Journal of the American Society for Mass Spectrometry, 2012, 23, 816-822. | 1.2 | 40 |

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| 37 | Tandem mass spectrometric evaluation of core structures of aromatic compounds after catalytic deoxygenation. Fuel Processing Technology, 2018, 176, 119-123. | 3.7 | 40 |
| 38 | Ionâˆ'Molecule Reactions for Mass Spectrometric Identification of Functional Groups in Protonated Oxygen-Containing Monofunctional Compounds. Analytical Chemistry, 2004, 76, 964-976. | 3.2 | 39 |
| 39 | Synthesis and Characterization of Aromatic Biradicals in the Gas Phase:Â Ameta-Benzyne with an Inert Positively Charged Substituent and Itsortho- andpara-Isomers. Journal of the American Chemical Society, 1997, 119, 3832-3833. | 6.6 | 38 |
| 40 | Fast Pyrolysis of <sup>13</sup>C-Labeled Cellobioses: Gaining Insights into the Mechanisms of Fast Pyrolysis of Carbohydrates. Journal of Organic Chemistry, 2015, 80, 1909-1914. | 1.7 | 37 |
| 41 | Laser desorption in transmission geometry inside a Fourier-transform ion cyclotron resonance mass spectrometer. Journal of the American Society for Mass Spectrometry, 1999, 10, 1105-1110. | 1.2 | 36 |
| 42 | meta-Benzyne Reacts as an Electrophile. Journal of Physical Chemistry A, 2001, 105, 10155-10168. | 1.1 | 36 |
| 43 | Reactivity of the 3,4,5â€Tridehydropyridinium Cationâ€"An Aromatic Ïƒ,Ïƒ,Ïƒâ€Triradical. Angewandte Chemie - International Edition, 2008, 47, 9860-9865. | 7.2 | 36 |
| 44 | Elucidation of structural information achievable for asphaltenes via collision-activated dissociation of their molecular ions in MSn experiments: A model compound study. Fuel, 2014, 133, 106-114. | 3.4 | 36 |
| 45 | Middle distillates hydrogen content via GCÃ—GC-FID. Talanta, 2018, 186, 140-146. | 2.9 | 36 |
| 46 | Charge-Site Effects on the Radical Reactivity of Distonic Ionsâ€. Journal of Physical Chemistry A, 2002, 106, 9767-9775. | 1.1 | 35 |
| 47 | Analysis of Base Oil Fractions by ClMn(H<sub>2</sub>O)<sup>+</sup> Chemical Ionization Combined with Laser-Induced Acoustic Desorption/Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. Analytical Chemistry, 2008, 80, 1847-1853. | 3.2 | 35 |
| 48 | Analysis of Catalytic Hydrothermal Conversion Jet Fuel and Surrogate Mixture Formulation: Components, Properties, and Combustion. Energy & Fuels, 2017, 31, 13802-13814. | 2.5 | 35 |
| 49 | Low-energy collisional activation of polyatomic ions with different target gases. International Journal of Mass Spectrometry and Ion Processes, 1989, 90, 71-83. | 1.9 | 34 |
| 50 | Structural Comparison of Asphaltenes of Different Origins Using Multi-stage Tandem Mass Spectrometry. Energy & Fuels, 2015, 29, 1309-1314. | 2.5 | 33 |
| 51 | Radical-type reactivity of the methylenedimethylsulfonium ion, (CH3)2S+ï£¿CH2Ë™. Organic Mass Spectrometry, 1993, 28, 1623-1631. | 1.3 | 32 |
| 52 | N-Terminal Derivatization and Fragmentation of Neutral Peptides via Ionâˆ'Molecule Reactions with Acylium Ions:Â Toward Gas-Phase Edman Degradation?. Journal of the American Chemical Society, 2001, 123, 1184-1192. | 6.6 | 32 |
| 53 | Analysis of natural products by tandem mass spectrometry employing reactive collisions with ethyl vinyl ether. Organic Mass Spectrometry, 1988, 23, 10-15. | 1.3 | 31 |
| 54 | Polar Effects on Iodine Atom Abstraction by Charged Phenyl Radicals. Journal of Organic Chemistry, 2000, 65, 645-651. | 1.7 | 31 |

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| 55 | Dehydration Pathways for Glucose and Cellobiose During Fast Pyrolysis. Journal of Physical Chemistry A, 2018, 122, 8071-8085. | 1.1 | 31 |
| 56 | Heat of formation of the radical cation of dimethyl disulfide. Organic Mass Spectrometry, 1994, 29, 106-107. | 1.3 | 30 |
| 57 | Characterization of Two Chloro-Substituted m-Benzyne Isomers:â€‰ Effect of Substitution on Reaction Efficiencies and Products. Journal of Physical Chemistry A, 2003, 107, 8985-8995. | 1.1 | 30 |
| 58 | Demonstration of Tunable Reactivity for meta-Benzynes. Journal of the American Chemical Society, 2005, 127, 5760-5761. | 6.6 | 30 |
| 59 | Functional Group Selective Ion/Molecule Reactions:Â Mass Spectrometric Identification of the Amido Functionality in Protonated Monofunctional Compounds. Journal of Organic Chemistry, 2007, 72, 3159-3165. | 1.7 | 30 |
| 60 | Speciation of CuCl and CuCl<sub>2</sub> Thiol-Amine Solutions and Characterization of Resulting Films: Implications for Semiconductor Device Fabrication. Inorganic Chemistry, 2017, 56, 14396-14407. | 1.9 | 30 |
| 61 | Impact of HEFA Feedstocks on Fuel Composition and Properties in Blends with Jet A. Energy & Fuels, 2018, 32, 11595-11606. | 2.5 | 30 |
| 62 | Homolytic Seâˆ’H Bond Energy and Ionization Energy of Benzeneselenol and the Acidity of the Corresponding Radical Cation. The Journal of Physical Chemistry, 1996, 100, 6608-6611. | 2.9 | 29 |
| 63 | Carbon disulfide reagent allows the characterization of nonpolar analytes by atmospheric pressure chemical ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 2011, 25, 1924-1928. | 0.7 | 29 |
| 64 | Bimolecular reactions involving the radical site of the distonic ion Â·CH2CH2CH2Cï£½O+. Rapid Communications in Mass Spectrometry, 1993, 7, 392-399. | 0.7 | 28 |
| 65 | Reactivity of an Aromatic Ïƒ,Ïƒ,Ïƒâ€Triradical: The 2,4,6â€Tridehydropyridinium Cation. Angewandte Chemie - International Edition, 2007, 46, 9198-9201. | 7.2 | 28 |
| 66 | Densities, Viscosities, Speeds of Sound, Bulk Moduli, Surface Tensions, and Flash Points of Quaternary Mixtures of <i>n</i>-Dodecane (1), <i>n</i>-Butylcyclohexane (2), <i>n-</i>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 & Engineering Data, 2019, 64, 1725-1745. | 1.0 | 27 |
| 67 | How to obtain a detailed chemical composition for middle distillates via GCâ€¯Ã—â€¯GC-FID without the need of GCâ€¯Ã—â€¯GC-TOF/MS. Fuel, 2019, 247, 368-377. | 3.4 | 27 |
| 68 | Pulsed gas introduction into quadrupole ion traps. Journal of the American Society for Mass Spectrometry, 1990, 1, 308-311. | 1.2 | 26 |
| 69 | m-Benzyne Reacts as an Electrophile. Journal of the American Chemical Society, 2000, 122, 8781-8782. | 6.6 | 26 |
| 70 | Identification of Aliphatic and Aromatic Tertiary N-Oxide Functionalities in Protonated Analytes via Ion/Molecule and Dissociation Reactions in an FT-ICR Mass Spectrometer. Journal of Organic Chemistry, 2009, 74, 1114-1123. | 1.7 | 25 |
| 71 | 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. Fuel, 2019, 246, 126-132. | 3.4 | 25 |
| 72 | On the factors that control the reactivity of meta-benzynes. Chemical Science, 2014, 5, 2205-2215. | 3.7 | 24 |

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| 73 | Diastereoselectivity in Gas-Phase Hydride Reduction Reactions of Ketones. Journal of the American Chemical Society, 1999, 121, 7130-7137. | 6.6 | 23 |
| 74 | Regioselective ionâ€“molecule reactions for the mass spectrometric differentiation of protonated isomeric aromatic diamines. Analyst, The, 2008, 133, 452. | 1.7 | 23 |
| 75 | Impact of Alternative Fuel Blending Components on Fuel Composition and Properties in Blends with Jet A. Energy & Fuels, 2019, 33, 3275-3289. | 2.5 | 23 |
| 76 | Bimolecular reactions of the .beta.-distonic isomer of the ethanol radical cation: .bul.CH2CH2OH2+. The Journal of Physical Chemistry, 1992, 96, 5272-5276. | 2.9 | 22 |
| 77 | A new reagent for structure-specific ion-molecule reactions. Dimethyl diselenide. Journal of Mass Spectrometry, 1995, 30, 384-385. | 0.7 | 22 |
| 78 | Identification of the Aromatic Tertiary N-Oxide Functionality in Protonated Analytes via Ion/Molecule Reactions in Mass Spectrometers. Journal of Organic Chemistry, 2008, 73, 4888-4894. | 1.7 | 22 |
| 79 | Gas-Phase Reactivity of Protonated 2-, 3-, and 4-Dehydropyridine Radicals Toward Organic Reagents. Journal of Physical Chemistry A, 2009, 113, 13663-13674. | 1.1 | 22 |
| 80 | Identification of Epoxide Functionalities in Protonated Monofunctional Analytes by Using Ion/Molecule Reactions and Collision-Activated Dissociation in Different Ion Trap Tandem Mass Spectrometers. Journal of the American Society for Mass Spectrometry, 2012, 23, 12-22. | 1.2 | 22 |
| 81 | A Mimivirus Enzyme that Participates in Viral Entry. Structure, 2015, 23, 1058-1065. | 1.6 | 22 |
| 82 | Identification of N-Oxide and Sulfoxide Functionalities in Protonated Drug Metabolites by Using Ionâ€“Molecule Reactions Followed by Collisionally Activated Dissociation in a Linear Quadrupole Ion Trap Mass Spectrometer. Journal of Organic Chemistry, 2016, 81, 575-586. | 1.7 | 22 |
| 83 | (âˆ’)ESI/CAD MS<sup><i>n</i></sup> Procedure for Sequencing Lignin Oligomers Based on a Study of Synthetic Model Compounds with Î²-O-4 and 5-5 Linkages. Analytical Chemistry, 2017, 89, 13089-13096. | 3.2 | 22 |
| 84 | The capability of organic compounds to swell acrylonitrile butadiene O-rings and their effects on O-ring mechanical properties. Fuel, 2019, 238, 483-492. | 3.4 | 22 |
| 85 | Gas-phase reactions of the 4-dehydroanilinium ion and its isomers. Journal of Mass Spectrometry, 1995, 30, 81-87. | 0.7 | 21 |
| 86 | Hydrogen Atom Abstraction Reactions of Charged Polyaromatic Ïƒ-Radicals Related to the Active Intermediates of the Enediyne Antitumor Drugs. Journal of the American Chemical Society, 2002, 124, 4108-4115. | 6.6 | 21 |
| 87 | Separation of Asphaltenes by Reversed-Phase Liquid Chromatography with Fraction Characterization. Energy & Fuels, 2012, 26, 2850-2857. | 2.5 | 21 |
| 88 | Analysis of xyloglucans by ambient chloride attachment ionization tandem mass spectrometry. Carbohydrate Polymers, 2013, 98, 1203-1213. | 5.1 | 21 |
| 89 | Direct functionalization of Câˆ’H bonds by electrophilic anions. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 23374-23379. | 3.3 | 21 |
| 90 | Comparison of Functional Group Selective Ionâ€“Molecule Reactions of Trimethyl Borate in Different Ion Trap Mass Spectrometers. Journal of the American Society for Mass Spectrometry, 2011, 22, 520-530. | 1.2 | 20 |

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| 91 | Compound Screening for the Presence of the PrimaryN-Oxide Functionality via Ionâˆ'Molecule Reactions in a Mass Spectrometer. Analytical Chemistry, 2005, 77, 5311-5316. | 3.2 | 19 |
| 92 | A Fourier-transform ion cyclotron resonance study of the 3,5-didehydrophenyl cation. Journal of the American Society for Mass Spectrometry, 2001, 12, 258-267. | 1.2 | 18 |
| 93 | Analysis of carbohydrates by atmospheric pressure chloride anion attachment tandem mass spectrometry. Fuel, 2013, 105, 235-246. | 3.4 | 18 |
| 94 | Effects of Residual Water in a Linear Quadrupole Ion Trap on the Protonation Sites of 4-Aminobenzoic Acid. Journal of the American Society for Mass Spectrometry, 2020, 31, 124-131. | 1.2 | 18 |
| 95 | Free-Radical-Mediated Glycan Isomer Differentiation. Analytical Chemistry, 2020, 92, 13794-13802. | 3.2 | 18 |
| 96 | Fragmentation of Saturated Hydrocarbons upon Atmospheric Pressure Chemical Ionization Is Caused by Proton-Transfer Reactions. Analytical Chemistry, 2020, 92, 8883-8892. | 3.2 | 18 |
| 97 | Radical Reactions of Didehydroarenes with a 1,4-Relationship. Journal of the American Chemical Society, 2003, 125, 14256-14257. | 6.6 | 17 |
| 98 | Quantum Chemical Characterization of the Structures, Thermochemical Properties, and Singletâˆ'Triplet Splittings of Didehydroquinolinium and Didehydroisoquinolinium Ions. Journal of Physical Chemistry A, 2005, 109, 10348-10356. | 1.1 | 17 |
| 99 | Experimental and Theoretical Characterization of the 3,5-Didehydrobenzoate Anion:Â A Negatively Chargedmeta-Benzyne. Journal of the American Chemical Society, 2003, 125, 131-140. | 6.6 | 16 |
| 100 | Quantitative determination of the selectivities of five different phenyl radicals in hydrogen atom abstraction from ethanol. Journal of the American Society for Mass Spectrometry, 2004, 15, 913-919. | 1.2 | 16 |
| 101 | Gas-Phase Reactivity of Charged Ï€-Type Biradicals. Journal of the American Chemical Society, 2004, 126, 12957-12967. | 6.6 | 16 |
| 102 | Ionâ€"molecule reactions facilitate the identification and differentiation of primary, secondary and tertiary amino functionalities in protonated monofunctional analytes in mass spectrometry. International Journal of Mass Spectrometry, 2009, 282, 77-84. | 0.7 | 16 |
| 103 | Identification of the Sulfone Functionality in Protonated Analytes via Ion/Molecule Reactions in a Linear Quadrupole Ion Trap Mass Spectrometer. Journal of Organic Chemistry, 2014, 79, 2883-2889. | 1.7 | 16 |
| 104 | Differentiating Isomeric Deprotonated Glucuronide Drug Metabolites via Ion/Molecule Reactions in Tandem Mass Spectrometry. Analytical Chemistry, 2018, 90, 9426-9433. | 3.2 | 16 |
| 105 | Synthesis of charged phenyl radicals and biradicals by laser photolysis in a Fourier-transform ion cyclotron resonance mass spectrometer. Journal of the American Society for Mass Spectrometry, 1998, 9, 1135-1140. | 1.2 | 15 |
| 106 | <b>Characterization of aromatic organosulfur model compounds relevant to fossil fuels by using atmospheric pressure chemical ionization with CS</b><sub><b>2</b></sub><b>and highâ€resolution tandem mass spectrometry</b>. Rapid Communications in Mass Spectrometry, 2016, 30, 953-962. | 0.7 | 15 |
| 107 | A Fundamental Tandem Mass Spectrometry Study of the Collisionâ€Activated Dissociation of Small Deprotonated Molecules Related to Lignin. ChemSusChem, 2016, 9, 3513-3526. | 3.6 | 15 |
| 108 | Identification of Protonated Sulfone and Aromatic Carboxylic Acid Functionalities in Organic Molecules by Using Ionâ€"Molecule Reactions Followed by Collisionally Activated Dissociation in a Linear Quadrupole Ion Trap Mass Spectrometer. Analytical Chemistry, 2017, 89, 7398-7405. | 3.2 | 15 |

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| 109 | An Automated Method for Chemical Composition Analysis of Lubricant Base Oils by Using Atmospheric Pressure Chemical Ionization Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2019, 30, 2014-2021. | 1.2 | 15 |
| 110 | Multiple-stage mass spectrometry in structural characterization of organophosphorus compounds. Journal of the American Society for Mass Spectrometry, 1993, 4, 125-134. | 1.2 | 14 |
| 111 | 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. Journal of the American Society for Mass Spectrometry, 2010, 21, 773-784. | 1.2 | 14 |
| 112 | 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. Journal of the American Society for Mass Spectrometry, 2011, 22, 670-682. | 1.2 | 14 |
| 113 | Experimental and Computational Studies on the Formation of Three <i>para</i>â€Benzyne Analogues in the Gas Phase. Chemistry - A European Journal, 2013, 19, 9022-9033. | 1.7 | 14 |
| 114 | Differentiation of Deprotonated Acyl-, <i>N</i>-, and <i>O</i>-Glucuronide Drug Metabolites by Using Tandem Mass Spectrometry Based on Gas-Phase Ionâ€“Molecule Reactions Followed by Collision-Activated Dissociation. Analytical Chemistry, 2019, 91, 11388-11396. | 3.2 | 14 |
| 115 | Compositional analysis of organosolv poplar lignin by using high-performance liquid chromatography/high-resolution multi-stage tandem mass spectrometry. Green Chemistry, 2021, 23, 983-1000. | 4.6 | 14 |
| 116 | Analyzing and Tuning the Chalcogenâ€“Amineâ€“Thiol Complexes for Tailoring of Chalcogenide Syntheses. Inorganic Chemistry, 2020, 59, 8240-8250. | 1.9 | 14 |
| 117 | Distinguishing conventional and distonic radical cations by using dimethyl diselenide. Journal of the American Society for Mass Spectrometry, 1996, 7, 1245-1250. | 1.2 | 13 |
| 118 | Ionâ€“molecule reactions of trimethylborate allow the mass spectrometric identification and counting of functional groups in protonated bifunctional oxygen-containing compounds and polyols. International Journal of Mass Spectrometry, 2007, 265, 359-371. | 0.7 | 13 |
| 119 | Liquid chromatography/tandem mass spectrometry utilizing ion-molecule reactions and collision-activated dissociation for the identification of N-oxide drug metabolites. Journal of Pharmaceutical and Biomedical Analysis, 2010, 51, 805-811. | 1.4 | 13 |
| 120 | Reactivity of a Ïƒ,Ïƒ,Ïƒ,Ïƒ-Tetraradical: The 2,4,6-Tridehydropyridine Radical Cation. Journal of the American Chemical Society, 2012, 134, 1926-1929. | 6.6 | 13 |
| 121 | Multiported Pulsed Valve Interface for a Linear Quadrupole Ion Trap Mass Spectrometer to Enable Rapid Screening of Multiple Functional-Group Selective Ionâ€“Molecule Reactions. Analytical Chemistry, 2014, 86, 6533-6539. | 3.2 | 13 |
| 122 | Mass spectrometric identification of the N â€monosubstituted N â€hydroxylamino functionality in protonated analytes via ion/molecule reactions in tandem mass spectrometry. Rapid Communications in Mass Spectrometry, 2015, 29, 730-734. | 0.7 | 13 |
| 123 | Modulating the radical reactivity of phenyl radicals with the help of distonic charges: it is all about electrostatic catalysis. Chemical Science, 2021, 12, 4800-4809. | 3.7 | 13 |
| 124 | An ion/molecule reaction for the identification of analytes with two basic functional groups. Journal of the American Society for Mass Spectrometry, 2009, 20, 1251-1262. | 1.2 | 12 |
| 125 | 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. Energy & Fuels, 2012, 26, 2975-2989. | 2.5 | 12 |
| 126 | Reactivity of the 4,5â€Didehydroisoquinolinium Cation. Chemistry - A European Journal, 2012, 18, 8692-8698. | 1.7 | 12 |

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| 127 | A Differentially Pumped Dual Linear Quadrupole Ion Trap (DLQIT) Mass Spectrometer: A Mass Spectrometer Capable of MS<sup>n</sup> Experiments Free From Interfering Reactions. Analytical Chemistry, 2013, 85, 11284-11290. | 3.2 | 12 |
| 128 | Does the 2,6â€didehydropyridinium cation exist?. Journal of Physical Organic Chemistry, 2013, 26, 707-714. | 0.9 | 12 |
| 129 | Identification of the sulfoxide functionality in protonated analytes via ion/molecule reactions in linear quadrupole ion trap mass spectrometry. Analyst, The, 2014, 139, 4296-4302. | 1.7 | 12 |
| 130 | Identification of the Phenol Functionality in Deprotonated Monomeric and Dimeric Lignin Degradation Products via Tandem Mass Spectrometry Based on Ionâ€“Molecule Reactions with Diethylmethoxyborane. Journal of the American Society for Mass Spectrometry, 2016, 27, 1813-1823. | 1.2 | 12 |
| 131 | Initial Products and Reaction Mechanisms for Fast Pyrolysis of Synthetic Gâ€Lignin Oligomers with Î²â€Oâ€4 Linkages via Onâ€Line Mass Spectrometry and Quantum Chemical Calculations. ChemistrySelect, 2017, 2, 7185-7193. | 0.7 | 12 |
| 132 | Molecular profiling of crude oil by using Distillation Precipitation Fractionation Mass Spectrometry (DPF-MS). Fuel, 2018, 234, 492-501. | 3.4 | 12 |
| 133 | Identification and Quantitation of Linear Alkanes in Lubricant Base Oils by Using GCÃ—GC/EI TOF Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2019, 30, 2670-2677. | 1.2 | 12 |
| 134 | Exploring the Reaction Mechanisms of Fast Pyrolysis of Xylan Model Compounds via Tandem Mass Spectrometry and Quantum Chemical Calculations. Journal of Physical Chemistry A, 2019, 123, 9149-9157. | 1.1 | 12 |
| 135 | Graph-based machine learning interprets and predicts diagnostic isomer-selective ionâ€“molecule reactions in tandem mass spectrometry. Chemical Science, 2020, 11, 11849-11858. | 3.7 | 12 |
| 136 | Characterization of long-chain carboxylic esters with CH3OBOCH3+ in a small fourier-transform ion cyclotron resonance mass spectrometer. Journal of the American Society for Mass Spectrometry, 1996, 7, 1138-1143. | 1.2 | 11 |
| 137 | Ionâ€“molecule reactions for the differentiation of primary, secondary and tertiary hydroxyl functionalities in protonated analytes in a tandem mass spectrometer. Analyst, The, 2012, 137, 5720. | 1.7 | 11 |
| 138 | Laser-induced acoustic desorption. MRS Bulletin, 2019, 44, 372-381. | 1.7 | 11 |
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