

Paul M Mayer

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/532343/publications.pdf>

Version: 2024-02-01

95
papers

1,968
citations

411340

20
h-index

312153

41
g-index

97
all docs

97
docs citations

97
times ranked

1989
citing authors

#	ARTICLE	IF	CITATIONS
1	VUV photoprocessing of oxygen-containing polycyclic aromatic hydrocarbons: iPEPICO study of the unimolecular dissociation of ionized benzofuran. <i>Canadian Journal of Chemistry</i> , 2022, 100, 729-736.	0.6	4
2	Probing the pyrolysis of methyl formate in the dilute gas phase by synchrotron radiation and theory. <i>Journal of Mass Spectrometry</i> , 2022, 57, .	0.7	5
3	VUV photoprocessing of oxygen-containing polycyclic aromatic hydrocarbons: Threshold photoelectron spectra. <i>Journal of Molecular Spectroscopy</i> , 2021, 377, 111446.	0.4	6
4	Fate of Protonated Formates in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2021, 125, 5096-5102.	1.1	4
5	How does successive hydrogen addition to PAH ions impact their unimolecular chemistry?. <i>Molecular Astrophysics</i> , 2020, 19, 100071.	1.7	3
6	Trifluoroacetic Acid and Trifluoroacetic Anhydride Radical Cations Dissociate near the Ionization Limit. <i>Journal of Physical Chemistry A</i> , 2019, 123, 6313-6318.	1.1	3
7	What Will Photo-Processing of Large, Ionized Amino-Substituted Polycyclic Aromatic Hydrocarbons Produce in the Interstellar Medium?. <i>Journal of Physical Chemistry A</i> , 2019, 123, 5027-5034.	1.1	4
8	Structure affecting dissociation energy in polycyclic aromatic hydrocarbon ions. <i>Chemical Physics Letters</i> , 2019, 726, 93-98.	1.2	2
9	Why Do Large Ionized Polycyclic Aromatic Hydrocarbons Not Lose C ₂ H ₂ ?. <i>Journal of Physical Chemistry A</i> , 2019, 123, 3569-3574.	1.1	26
10	Ion Dissociation Dynamics of 1,2,3,4-Tetrahydronaphthalene: Tetralin as a Test Case For Hydrogenated Polycyclic Aromatic Hydrocarbons. <i>Journal of Physical Chemistry A</i> , 2019, 123, 10885-10892.	1.1	8
11	Hydroxy-Substituted Polycyclic Aromatic Hydrocarbon Ions as Sources of CO and HCO in the Interstellar Medium. <i>Journal of Physical Chemistry A</i> , 2019, 123, 10694-10699.	1.1	4
12	Unimolecular reaction energies for polycyclic aromatic hydrocarbon ions. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 7195-7205.	1.3	51
13	Unimolecular Dissociation of 1-Methylpyrene Cations: Why Are 1-Methylenepyrene Cations Formed and Not a Tropylium-Containing Ion?. <i>Journal of Physical Chemistry A</i> , 2018, 122, 4730-4735.	1.1	9
14	Dual-electrospray synthesis: A method of studying unique coordination complexes in the gas phase. <i>International Journal of Mass Spectrometry</i> , 2018, 429, 107-114.	0.7	1
15	Toward Point-of-Care Drug Quality Assurance in Developing Countries: Comparison of Liquid Chromatography and Infrared Spectroscopy Quantitation of a Small-Scale Random Sample of Amoxicillin. <i>American Journal of Tropical Medicine and Hygiene</i> , 2018, 99, 477-481.	0.6	5
16	What do we expect from the dissociation of ionized nitro-substituted polycyclic aromatic hydrocarbons in the interstellar medium?. <i>International Journal of Mass Spectrometry</i> , 2018, 434, 81-86.	0.7	3
17	Building the hydrocarbon building blocks of astrochemical polycyclic aromatic hydrocarbons with 8 keV He ⁺ ions. <i>Journal of Physical Chemistry A</i> , 2018, 122, 4730-4735.	1.2	5
18	Dual-electrospray hydrogen/deuterium exchange (HDX) reactions: A new method of probing protein structure. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 1505-1512.	0.7	7

#	ARTICLE	IF	CITATIONS
19	VUV PHOTO-PROCESSING OF PAH CATIONS: QUANTITATIVE STUDY ON THE IONIZATION VERSUS FRAGMENTATION PROCESSES. <i>Astrophysical Journal</i> , 2016, 822, 113.	1.6	61
20	Structure and Stability of Carbohydrate-Lipid Interactions. Methylmannose Polysaccharide-Fatty Acid Complexes. <i>ChemBioChem</i> , 2016, 17, 1571-1578.	1.3	5
21	Modeling collision energy transfer in APCI/CID mass spectra of PAHs using thermal-like post-collision internal energy distributions. <i>Journal of Chemical Physics</i> , 2016, 145, 164311.	1.2	3
22	Halide anions are formed from reactions between atomic metal anions and halogenated aromatic molecules. <i>Journal of Mass Spectrometry</i> , 2016, 51, 586-590.	0.7	0
23	Effect of ripening stage on aliphatic alcohol, 4 α -monomethylsterol and 4,4 α -dimethylsterol compositions of <i>Pistacia lentiscus</i> fruit (lentisc). <i>European Journal of Lipid Science and Technology</i> , 2016, 118, 770-776.	1.0	0
24	Dehydrogenation of Alcohols and Hydrocarbons by Atomic Metal Anions. <i>European Journal of Mass Spectrometry</i> , 2015, 21, 487-495.	0.5	2
25	A complete map of the ion chemistry of the naphthalene radical cation? DFT and RRKM modeling of a complex potential energy surface. <i>Journal of Chemical Physics</i> , 2015, 143, 104305.	1.2	46
26	Advances and applications in physical organic chemistry. Papers from the 22nd IUPAC International Conference on Physical Organic Chemistry, Ottawa, Canada, 10-15 August 2014. <i>Canadian Journal of Chemistry</i> , 2015, 93, v-v.	0.6	0
27	Utilizing ion mobility and tandem mass spectrometry to evaluate the structure and behaviour of multimeric cyclodextrin complexes. <i>Canadian Journal of Chemistry</i> , 2015, 93, 1313-1319.	0.6	6
28	22nd IUPAC International Conference on Physical Organic Chemistry (ICPOC-22). <i>Pure and Applied Chemistry</i> , 2015, 87, 339-339.	0.9	0
29	Triacylglycerols and aliphatic alcohols from fruits of three Tunisian <i>Pistacia lentiscus</i> populations. <i>Journal of the Science of Food and Agriculture</i> , 2015, 95, 2028-2032.	1.7	10
30	Dissociative Photoionization and Threshold Photoelectron Spectra of Polycyclic Aromatic Hydrocarbon Fragments: An Imaging Photoelectron Photoion Coincidence (iPEPICO) Study of Four Substituted Benzene Radical Cations. <i>Journal of Physical Chemistry A</i> , 2014, 118, 11226-11234.	1.1	13
31	Dissociation of the Anthracene Radical Cation: A Comparative Look at iPEPICO and Collision-Induced Dissociation Mass Spectrometry Results. <i>Journal of Physical Chemistry A</i> , 2014, 118, 9870-9878.	1.1	24
32	Photodissociation of Pyrene Cations: Structure and Energetics from C ₁₆ H ₁₀ ⁺ to C ₁₄ ⁺ and Almost Everything in Between. <i>Journal of Physical Chemistry A</i> , 2014, 118, 7824-7831.	1.1	60
33	Triacylglycerol and Glycerophospholipid Identification and Accumulation During Ripening of <i>Pistacia lentiscus</i> L. (Lentisc) Fruit. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2014, 91, 1189-1196.	0.8	1
34	Dynamics of Hydrogen and Methyl Radical Loss from Ionized Dihydro-Polycyclic Aromatic Hydrocarbons: A Tandem Mass Spectrometry and Imaging Photoelectron-Photoion Coincidence (iPEPICO) Study of Dihydronaphthalene and Dihydrophenanthrene. <i>Journal of Physical Chemistry A</i> , 2014, 118, 1807-1816.	1.1	19
35	LC-ESI-QTOF-MS, MS/MS Analysis of Glycerophospholipid Species in Three Tunisian <i>Pistacia lentiscus</i> Fruit Populations. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2013, 90, 611-618.	0.8	7
36	Energy and entropy at play in competitive dissociations: The case of uneven positional dissociation of ionized triacylglycerides. <i>International Journal of Mass Spectrometry</i> , 2013, 352, 77-86.	0.7	16

#	ARTICLE	IF	CITATIONS
37	Comparing Femtosecond Multiphoton Dissociative Ionization of Tetrathiafulvene with Imaging Photoelectron Photoion Coincidence Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2013, 117, 2753-2759.	1.1	2
38	The Applicability of the Kinetic Method for Measuring Relative Affinities of Macromolecules for Polyatomic Substrates. <i>European Journal of Mass Spectrometry</i> , 2012, 18, 223-234.	0.5	2
39	The collaborative role of molecular conformation and energetics in the binding of gas-phase non-covalent polymer/amine complexes. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 165-172.	1.3	15
40	On the Dissociation of the Naphthalene Radical Cation: New iPEPICO and Tandem Mass Spectrometry Results. <i>Journal of Physical Chemistry A</i> , 2012, 116, 10999-11007.	1.1	69
41	Experiment and theory combine to produce a practical negative ion calibration set for collision cross-section determinations by travelling-wave ion-mobility mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 1591-1595.	0.7	23
42	Fatty acids, 4-desmethylsterols, and triterpene alcohols from Tunisian lentisc (<i>Pistacia lentiscus</i>) fruits. <i>European Journal of Lipid Science and Technology</i> , 2012, 114, 968-973.	1.0	10
43	Comparative Study of Three Methods for Affinity Measurements: Capillary Electrophoresis Coupled with UV Detection and Mass Spectrometry, and Direct Infusion Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2012, 23, 1232-1240.	1.2	18
44	Investigating the relationship between the gas-phase conformations and dissociation energetics of peptide-saccharide complexes. <i>International Journal of Mass Spectrometry</i> , 2012, 316-318, 31-39.	0.7	4
45	Gas-phase binding energies for non-covalent \hat{A}^2 -40 peptide/small molecule complexes from CID mass spectrometry and RRKM theory. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 5178.	1.3	16
46	Fluorescence from the $A^2\Sigma^+$ state suggests a non-Franck-Condon N_2O^+ vibrational state population after keV collisional activation with helium. <i>Canadian Journal of Chemistry</i> , 2011, 89, 303-309.	0.6	1
47	Reactions of Atomic Metal Anions in the Gas phase: Competition between Electron Transfer, Proton Abstraction and Bond Activation. <i>Journal of Physical Chemistry A</i> , 2011, 115, 14006-14012.	1.1	23
48	Do the O_2 Schumann-Runge Bands Participate in keV Collision-Induced Dissociation Experiments?. <i>Journal of the American Society for Mass Spectrometry</i> , 2011, 22, 75-80.	1.2	2
49	Triacylglycerols and Phospholipids Composition of Caper Seeds (<i>Capparis spinosa</i>). <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2011, 88, 1787-1793.	0.8	8
50	A neutralization-reionization and reactivity mass spectrometry study of the generation of neutral hydroxymethylene. <i>Journal of Mass Spectrometry</i> , 2011, 46, 546-552.	0.7	1
51	Threshold photoelectron study of naphthalene, anthracene, pyrene, 1,2-dihydronaphthalene, and 9,10-dihydroanthracene. <i>Journal of Chemical Physics</i> , 2011, 134, 244312.	1.2	42
52	Investigation of the noncovalent interactions between anti-amyloid agents and amyloid \hat{A}^2 peptides by ESI-MS. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 1506-1514.	1.2	28
53	Old acid, new chemistry. Negative metal anions generated from alkali metal oxalates and others. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 1944-1946.	1.2	14
54	Threshold ionization and dissociation of <i>t</i> -butylamine. <i>Canadian Journal of Chemistry</i> , 2010, 88, 142-149.	0.6	3

#	ARTICLE	IF	CITATIONS
55	Long Bonds and Short Barriers: Ionization and Isomerization of Alkyl Nitriles. <i>Journal of Physical Chemistry A</i> , 2010, 114, 867-878.	1.1	6
56	Comparing the fragmentation chemistry of gas-phase adducts of poly(dimethylsiloxane) oligomers with metal and organic ions. <i>Canadian Journal of Chemistry</i> , 2009, 87, 453-459.	0.6	16
57	The mechanisms of collisional activation of ions in mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2009, 28, 608-639.	2.8	83
58	Ionized o-, m-, and p-difluorobenzene dissociate through ring-opened intermediates: A TPEPICO investigation. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 20-24.	1.2	7
59	Protonating polymer oligomers in the gas phase to change fragmentation pathways. <i>Journal of the American Society for Mass Spectrometry</i> , 2009, 20, 60-66.	1.2	19
60	Does Tetrahydrofuran Ring Open upon Ionization and Dissociation? A TPES and TPEPICO Investigation. <i>Journal of Physical Chemistry A</i> , 2009, 113, 10923-10932.	1.1	14
61	Three Products Are Better than Two: Entropic Advantages in the Competing Dissociation Reactions of Ionized Azo- <i>t</i> -butane. <i>Journal of Physical Chemistry A</i> , 2009, 113, 1518-1522.	1.1	5
62	Methyl <i>t</i> -Butyl Ether and Methyl Trimethylsilyl Ether Ions Dissociate near Their Ionization Thresholds: A TPES, TPEPICO, RRKM, and G3 Investigation. <i>Journal of Physical Chemistry A</i> , 2009, 113, 5823-5831.	1.1	7
63	Nitro- ⁺ Nitrite Isomerization and Transition State Switching in the Dissociation of Ionized Nitromethane: A Threshold Photoelectron-Photoion Coincidence Spectroscopy Study. <i>European Journal of Mass Spectrometry</i> , 2009, 15, 157-166.	0.5	8
64	Should a Franck-Condon or a curve-crossing picture be applied to ion-target collisional activation? A study of keV CO ₂ ⁺ /He collisions by emission spectroscopy. <i>Journal of the American Society for Mass Spectrometry</i> , 2008, 19, 1551-1558.	1.2	9
65	Comparison of keV N ₂ ⁺ /He and N ₂ ⁺ /Ar Collisions by Emission Spectroscopy and Theory. <i>Journal of Physical Chemistry A</i> , 2008, 112, 7761-7767.	1.1	5
66	Thermochemistry of N ⁺ -Containing Ions: A Threshold Photoelectron Photoion Coincidence Spectroscopy Study of Ionized Methyl- and Tetramethylhydrazine. <i>Journal of Physical Chemistry A</i> , 2008, 112, 866-879.	1.1	13
67	Entropy Effects in the Fragmentation of 1,1-Dimethylhydrazine Ions. <i>Journal of Physical Chemistry A</i> , 2007, 111, 5388-5398.	1.1	15
68	Experimental Evidence for the Curve Crossing Mechanism for Collisional Excitation in keV N ₂ ⁺ /He Collisions by Emission Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2007, 111, 777-782.	1.1	10
69	Can the CH ₂ BH ₂ and CH ₃ BH radicals, cations and anions be observed by experiment?. <i>Computational and Theoretical Chemistry</i> , 2007, 811, 303-312.	1.5	2
70	Matrix effects on copolymer quantitation by matrix-assisted laser desorption/ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 3392-3394.	0.7	3
71	A Photoelectron and TPEPICO Investigation of the Acetone Radical Cation. <i>Journal of Physical Chemistry A</i> , 2006, 110, 8663-8675.	1.1	30
72	Threshold-Photoelectron Spectroscopic Study of Methyl-Substituted Hydrazine Compounds. <i>Journal of Physical Chemistry A</i> , 2006, 110, 8563-8571.	1.1	19

#	ARTICLE	IF	CITATIONS
73	A Comparison of Electrospray Ionization and Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry with Nuclear Magnetic Resonance Spectroscopy for the Characterization of Synthetic Co-Polymers. <i>European Journal of Mass Spectrometry</i> , 2006, 12, 301-310.	0.5	8
74	Competing rearrangement reactions in small gas-phase ionic complexes: The internal SN2 and nitro-nitrite rearrangements in nitroalkane proton-bound pairs. <i>International Journal of Mass Spectrometry</i> , 2006, 255-256, 93-101.	0.7	5
75	Conformation Effects on the Dissociation of Ionized Polymers. <i>European Journal of Mass Spectrometry</i> , 2005, 11, 557-563.	0.5	7
76	Predicting ion rearrangement reactions— The energetics of the internal SN2 reaction in gas-phase proton-bound molecular pairs. <i>Canadian Journal of Chemistry</i> , 2005, 83, 1864-1870.	0.6	3
77	What Ion Is Generated When Ionizing Acetonitrile?. <i>Journal of Physical Chemistry A</i> , 2005, 109, 4425-4427.	1.1	13
78	Confirmation of the long-lived tetra-nitrogen (N ₄) molecule using neutralization-reionization mass spectrometry and ab initio calculations. <i>Journal of Chemical Physics</i> , 2004, 120, 10561-10578.	1.2	46
79	Entropy Changes in the Dissociation of Proton-Bound Complexes: A Variational RRKM Study. <i>Journal of Physical Chemistry A</i> , 2004, 108, 9726-9732.	1.1	9
80	Evidence for the Participation of Excited Electronic States in the Unimolecular Dissociation Reactions of Ionic Complexes between NO and Aromatic Compounds. <i>European Journal of Mass Spectrometry</i> , 2004, 10, 899-907.	0.5	4
81	Electron-spin conservation and methyl-substitution effects on bonds in closed- and open-shell systems— A G3 ab initio study of small boron-containing molecules and radicals. <i>Canadian Journal of Chemistry</i> , 2002, 80, 25-30.	0.6	11
82	Bond Dissociation Energies and Radical Stabilization Energies Associated with Substituted Methyl Radicals. <i>Journal of Physical Chemistry A</i> , 2001, 105, 6750-6756.	1.1	265
83	Ion Rearrangement at the Beginning of Cluster Formation: Methyl Substitution Effects on the Internal SN2 Reaction in the Proton-Bound Dimers of Acetonitrile and Alcohols. <i>European Journal of Mass Spectrometry</i> , 2001, 7, 267-277.	0.5	12
84	Unimolecular Reactions of Proton-Bound Cluster Ions: Competition between Dissociation and Isomerization in the Ethanol~Acetonitrile Dimer. <i>Journal of Physical Chemistry A</i> , 2000, 104, 8505-8511.	1.1	15
85	Benchmark enthalpies of formation and binding energies of proton-bound pairs between HCN and HCN, NH ₃ , H ₂ O, and HF. <i>Journal of Chemical Physics</i> , 1999, 110, 7779-7788.	1.2	16
86	Cyanoviny radical: an illustration of the poor performance of unrestricted perturbation theory and density functional theory procedures in calculating radical stabilization energies. <i>Theoretical Chemistry Accounts</i> , 1999, 102, 92-96.	0.5	60
87	An assessment of theoretical procedures for the calculation of reliable radical stabilization energies. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1999, , 2305-2313.	0.9	121
88	Proton Affinities of Primary Alkanols: An Appraisal of the Kinetic Method. <i>Journal of Physical Chemistry A</i> , 1999, 103, 705-709.	1.1	39
89	Unimolecular Reactions of Proton-Bound Cluster Ions: Competition between Dissociation and Isomerization in the Methanol~Acetonitrile Dimer. <i>Journal of Physical Chemistry A</i> , 1999, 103, 3687-3692.	1.1	20
90	Structures and Binding Energies of Proton-Bound Pairs of HCN and CH ₃ CN with NH ₃ , H ₂ O, HF, CH ₃ NH ₂ , CH ₃ OH, and CH ₃ F. <i>Journal of Physical Chemistry A</i> , 1999, 103, 5905-5909.	1.1	17

#	ARTICLE	IF	CITATIONS
91	An assessment of theoretical procedures for the calculation of reliable free radical thermochemistry: A recommended new procedure. <i>Journal of Chemical Physics</i> , 1998, 108, 604-615.	1.2	206
92	Deprotonating Molecules and Free Radicals to Form Carbon-Centered Anions: A G2 ab Initio Study of Molecular and Free Radical Acidity. <i>Journal of Physical Chemistry A</i> , 1998, 102, 4918-4924.	1.1	27
93	Dimethylcarbene, Its Radical Cation and Dication. <i>Journal of the American Chemical Society</i> , 1997, 119, 9039-9041.	6.6	13
94	A photoionization study of vibrational cooling in molecular beams. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1996, 156, 133-139.	1.9	20
95	The collision-induced emission of radiation: Lifetimes of excited states formed in the collision-induced dissociation (CID) process and excitation target gas molecules. <i>Organic Mass Spectrometry</i> , 1992, 27, 537-539.	1.3	5