

Jürgen Grotemeyer

List of Publications by Year in descending order

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87
papers

1,169
citations

361388

20
h-index

454934

30
g-index

92
all docs

92
docs citations

92
times ranked

619
citing authors

#	ARTICLE	IF	CITATIONS
1	A general soft ionization method for mass spectrometry: Resonance-enhanced multi-photon ionization of biomolecules. <i>Organic Mass Spectrometry</i> , 1986, 21, 645-653.	1.3	111
2	Multiphoton-Ionization-Mass Spectrometry (MUPI-MS) [New Analytical Methods (34)]. <i>Angewandte Chemie International Edition in English</i> , 1988, 27, 447-459.	4.4	72
3	Biomolecules in the gas phase: multiphoton ionization mass spectrometry. <i>Accounts of Chemical Research</i> , 1989, 22, 399-406.	15.6	70
4	Time-of-flight mass spectrometry: State-of-the-art in chemical analysis and molecular science. , 1996, 15, 139-162.		65
5	¹³ C labelling study of the interconversion of ethylbenzene, 7-methylcycloheptatriene and p-xylene ions. <i>Organic Mass Spectrometry</i> , 1982, 17, 353-359.	1.3	37
6	New features in the mass analyzed threshold ionization (MATI) spectra of alkyl benzenes. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 5966-5972.	2.8	36
7	Biomolecules in the gas phase. III. Multiphoton ionization mass spectra of phenylthiohydantoin amino acids and free amino acids. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1987, 78, 69-83.	1.8	33
8	Die Multiphotonenionisations (MUPI) - Massenspektrometrie. <i>Angewandte Chemie</i> , 1988, 100, 461-474.	2.0	32
9	Multiphoton ionization of molecules: A comparison between femtosecond and nanosecond laser pulse ionization efficiency. <i>Journal of the American Society for Mass Spectrometry</i> , 1995, 6, 1059-1068.	2.8	31
10	Carbon dioxide-laser desorption and multiphoton ionization of tris(2,2'-bipyridyl)ruthenium. <i>Journal of the American Chemical Society</i> , 1988, 110, 7534-7535.	13.7	29
11	Single-photon and multi-photon ionization of infrared laser-desorbed biomolecules. <i>Organic Mass Spectrometry</i> , 1992, 27, 463-471.	1.3	28
12	Letter: Multiphoton ionisation mass spectrometry of metal organic compounds: avoiding the ultrafast neutral dissociation channels by femtosecond laser activation. <i>European Journal of Mass Spectrometry</i> , 1996, 2, 197.	0.7	28
13	High-resolution mass spectrometry of large molecules in a linear time-of-flight mass spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 1993, 4, 2-10.	2.8	26
14	Photoionization and photofragmentation in mass spectrometry with visible and UV lasers. <i>Mass Spectrometry Reviews</i> , 2019, 38, 202-217.	5.4	26
15	Mass Analyzed Threshold Ionization Spectroscopy of o-, m-, and p-Dichlorobenzenes. Influence of the Chlorine Position on Vibrational Spectra and Ionization Energy. <i>Journal of Physical Chemistry A</i> , 2008, 112, 425-434.	2.5	24
16	Absorption effects in laser desorption of neutral organic molecules. <i>The Journal of Physical Chemistry</i> , 1991, 95, 7824-7830.	2.9	23
17	The Application of Resonant Multiphoton Ionization by Sub-picosecond Laser Pulses for Analytical Laser Mass Spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1997, 11, 745-748.	1.5	22
18	High-resolution mass spectrometry in a linear time-of-flight mass spectrometer. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1994, 131, 139-148.	1.8	21

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19	Multiphoton ionization of nitrotoluenes by means of ultrashort laser pulses. <i>International Journal of Mass Spectrometry</i> , 2001, 206, 245-250.	1.5	21
20	Enhancing of the signal-to-noise ratio in MATI spectra. <i>International Journal of Mass Spectrometry</i> , 2003, 228, 921-931.	1.5	21
21	Design and setup of an ion trap/reflectron-time-of-flight mass spectrometer. <i>European Journal of Mass Spectrometry</i> , 1995, 1, 331.	0.7	20
22	Protein Conformational Changes Determined by Matrix-Assisted Laser Desorption Mass Spectrometry. <i>Analytical Biochemistry</i> , 1998, 258, 118-126.	2.4	19
23	Mass analyzed threshold ionization (MATI) spectroscopy of trichlorobenzenes via different intermediate vibrational states in the S1 state. <i>International Journal of Mass Spectrometry</i> , 2011, 306, 129-137.	1.5	19
24	Dissociative proton transfer in cluster ions: clusters of aromatic carboxylic acids with amino acids. <i>International Journal of Mass Spectrometry</i> , 2001, 210-211, 521-530.	1.5	18
25	Formation, stability and fragmentation of biomolecular clusters in a supersonic jet investigated with nano- and femtosecond laser pulses. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1998, 102, 459-468.	0.9	17
26	Detailed analysis of the cation ground state of three dichlorobenzenes by mass analyzed threshold ionization spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 1168-1176.	2.8	16
27	Kinetic and thermodynamic effects on intramolecular aromatic substitution in meta and para substituted benzalacetones. <i>Organic Mass Spectrometry</i> , 1981, 16, 410-415.	1.3	15
28	Peptide sequence ions produced by postionization of neutral molecules formed during resonant 266-nm laser desorption. <i>The Journal of Physical Chemistry</i> , 1992, 96, 3157-3162.	2.9	15
29	The application of ultra-short light pulses for the analysis of quickly relaxing organic molecules by means of laser mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 1999, 185-187, 307-318.	1.5	15
30	The Secrets of Time-of Flight Mass Spectrometry Revealed. <i>European Journal of Mass Spectrometry</i> , 2003, 9, 151-164.	1.0	15
31	Fragmentation of xanthene dyes by laser activation and collision-induced dissociation on a high-resolution Fourier transform ion cyclotron resonance mass spectrometer. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 1169-1172.	1.5	15
32	Pair Formation of Free Nucleobases and Mononucleosides in the Gas Phase. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1994, 49, 776-784.	1.5	14
33	Matrix-assisted laser desorption of neutral organic molecules. <i>Organic Mass Spectrometry</i> , 1991, 26, 1052-1056.	1.3	13
34	Multiphoton ionization and photodissociation at the second-order space focus in a time-of-flight mass spectrometer: The amino acid tryptophan. <i>Organic Mass Spectrometry</i> , 1994, 29, 659-667.	1.3	13
35	Account: Multiphoton ionization mass spectrometry: principles and fields of application. <i>European Journal of Mass Spectrometry</i> , 1996, 2, 151.	0.7	13
36	Laser ion kinetics: set-up and application of a single-shot femtosecond pump-probe technique. <i>Applied Physics B: Lasers and Optics</i> , 2000, 71, 419-429.	2.2	13

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37	Cluster formation of biomolecules in the gas phase. <i>European Journal of Mass Spectrometry</i> , 1995, 1, 95.	0.7	11
38	Fragmentation of deuterated rhodamine B derivatives by laser and collisional activation in an FT-ICR mass spectrometer. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 7061-7069.	3.7	11
39	Fragmentation Reactions of Labeled and Unlabeled Rhodamine B in a High-Resolution Fourier Transform Ion Cyclotron Resonance Mass Spectrometer. <i>European Journal of Mass Spectrometry</i> , 2013, 19, 135-139.	1.0	11
40	REMPI and MATI spectroscopic investigation of dichlorobenzene-argon complexes: determination of the binding energies. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 1628.	2.8	10
41	Wavelength- and Time-Resolved Luminescence Spectroscopy for Investigation of the Matrix-Assisted Laser Desorption Process. <i>European Journal of Mass Spectrometry</i> , 2002, 8, 287-293.	1.0	9
42	Multiple hydrogen bonds. Mass spectra of hydrogen bonded heterodimers. A comparison of ESI- and REMPI-ReTOF-MS. <i>Chemical Communications</i> , 2004, , 2400-2401.	4.1	9
43	Investigations of neutral fragment formation during resonant 266-nm laser desorption. <i>The Journal of Physical Chemistry</i> , 1992, 96, 3162-3166.	2.9	7
44	Primary structures of proteins characterized by proteinase K digestion and matrix-assisted laser desorption/ionization mass spectrometry. <i>Chemical Biology and Drug Design</i> , 1997, 50, 402-406.	1.1	7
45	Fragmentation of chromophore labelled oligosaccharides induced by photodissociation with visible light. <i>Analytical Methods</i> , 2013, 5, 503-507.	2.7	6
46	Mass-analyzed-threshold-ionization (MATI) spectroscopy of 1,2,3-substituted halogenated benzenes via different intermediate vibrational states in the $S_{1,1}$ state. <i>RSC Advances</i> , 2015, 5, 937-948.	3.6	6
47	Mass-Analyzed-Threshold-Ionization-Spectroscopy of Pyrazine and Pyrazine-Ar. <i>Zeitschrift Fur Physikalische Chemie</i> , 2007, 221, 663-688.	2.8	5
48	Instrumental measures to enhance the mass resolution in matrix assisted laser desorption/ionization (MALDI) time-of-flight experiments: computational simulations and experimental observations. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997, 167-168, 661-674.	1.8	4
49	Formation and Reactions of Clusters in the Gas Phase: Small Peptides and Carboxylic Acids. <i>European Journal of Mass Spectrometry</i> , 2005, 11, 295-307.	1.0	4
50	Supramolecular Clusters between Carbohydrates and Concave Pyridines. Detection in the Gas Phase by Resonance-Enhanced Multi-Photon Ionization Reflectron Time-of-Fight Mass Spectrometry. <i>European Journal of Mass Spectrometry</i> , 2006, 12, 117-120.	1.0	4
51	Rearrangement and Fragmentation of Estrogen Ether Ions: New Aspects Found with Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>European Journal of Mass Spectrometry</i> , 2010, 16, 489-501.	1.0	4
52	Photodissociation at Various Wavelengths: Fragmentation Studies of Oxazine 170 Using Nanosecond Laser Pulses. <i>European Journal of Mass Spectrometry</i> , 2015, 21, 599-608.	1.0	4
53	A comparative study of APLI and APCI in IMS at atmospheric pressure to reveal and explain peak broadening effects by the use of APLI. <i>Analyst, The</i> , 2015, 140, 7565-7571.	3.5	4
54	Analysis of the $S_{1,1}$ and $S_{0,0}$ and $S_{2,1}$ band systems in 1,2-dichloro-4-fluorobenzene by means of resonance-enhanced-multi-photon-ionization (REMPI) and mass-analyzed-threshold-ionization (MATI) spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 7100-7113.	2.8	4

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55	Detailed analysis of the vibronic structure of phenetole in its first excited state and ionic ground state. <i>European Journal of Mass Spectrometry</i> , 2019, 25, 142-156.	1.0	4
56	Formation and reactions of cluster ions from aromatic carboxylic acids together with amino acids. <i>Israel Journal of Chemistry</i> , 2001, 41, 79-90.	2.3	3
57	Determination of the Binding Energies in Aromatic Clusters: Resonance-Enhanced Multi-Photon Ionization and Mass Analyzed Threshold Ionization Investigation of the Dichlorobenzene-Argon Complexes. <i>European Journal of Mass Spectrometry</i> , 2009, 15, 349-359.	1.0	3
58	Indocyanine green MS/MS investigations using femtosecond laser-pulse photodissociation and collision-induced dissociation. <i>European Journal of Mass Spectrometry</i> , 2018, 24, 299-312.	1.0	3
59	Influence of the trap length on the performance of Cassinian ion traps: A simulation study. <i>International Journal of Mass Spectrometry</i> , 2019, 438, 55-62.	1.5	3
60	Hyperthermal Surface Ionization in a Time-of-Flight Mass Spectrometer. <i>European Journal of Mass Spectrometry</i> , 2000, 6, 319-323.	1.0	2
61	Design, Setup and First Results of a Miniaturized Time-of-Flight Mass Spectrometer with a Simple Reflector of a New Design. <i>European Journal of Mass Spectrometry</i> , 2004, 10, 163-171.	1.0	2
62	UV-laser ablation of ionic liquid matrices. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 395, 2457-2463.	3.7	2
63	Photodissociation Mass Spectra and Mass-Selected Resonant (1+1)-Photodissociation Spectroscopy of Some Alkyl Iodide Radical Cations. <i>European Journal of Mass Spectrometry</i> , 2011, 17, 465-475.	1.0	2
64	The mobile proton in biomolecular clusters: Tripeptides and vanillic acid. <i>International Journal of Mass Spectrometry</i> , 2013, 354-355, 398-405.	1.5	2
65	Signal deformation at high ion concentration in atmospheric pressure laser ionization ion mobility spectrometry (APLI-IMS). <i>Sensors and Actuators B: Chemical</i> , 2017, 243, 1157-1163.	7.8	2
66	Analysis of the S1 $\hat{\nu}_1$ -SO and DO $\hat{\nu}_1$ -S1 Band Systems in the Picolines by Means of Resonance Enhanced Multi Photon Ionization (REMPI) and Mass Analyzed Threshold Ionization (MATI) Spectroscopy. <i>Current Physical Chemistry</i> , 2018, 8, 58-83.	0.2	2
67	Numerical analysis of trajectories in a Cassinian ion trap of second order with trap door ion inlet. <i>European Journal of Mass Spectrometry</i> , 2021, 27, 3-12.	1.0	2
68	Große Biomoleküle im Massenspektrometer. <i>Angewandte Chemie</i> , 1990, 102, A120.	2.0	1
69	Laser desorption and multiphoton ionization of some smaller biomolecules: Recent results and prospects. <i>Lecture Notes in Physics</i> , 1991, , 137-148.	0.7	1
70	Sequence-ion enhancement of peptides digested with proteinase K. <i>Rapid Communications in Mass Spectrometry</i> , 1994, 8, 833-836.	1.5	1
71	Simultaneous determination of absorption cross sections and decay rate constants by quantitative laser mass spectrometry. <i>Chemical Physics Letters</i> , 1998, 282, 257-262.	2.6	1
72	Resonant Two-Photon Ionization Studies of Toluene with Anisole Cluster: A System with Competing Non-Covalent Interactions. <i>ChemistrySelect</i> , 2016, 1, 2664-2667.	1.5	1

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73	Subsequent radical fragmentation reactions of <i>N,N</i> -diethylamino-substituted azobenzene derivatives in a Fourier transform ion cyclotron resonance mass spectrometer using collision-induced dissociation and photodissociation. <i>European Journal of Mass Spectrometry</i> , 2017, 23, 359-368.	1.0	1
74	Measuring the effects of Coulomb repulsion via signal decay in an atmospheric pressure laser ionization ion mobility spectrometer. <i>European Journal of Mass Spectrometry</i> , 2018, 24, 330-336.	1.0	1
75	Fragmentation studies on metastable diethylaniline derivatives using mass-analyzed ion kinetic energy spectrometry. <i>European Journal of Mass Spectrometry</i> , 2018, 24, 12-22.	1.0	1
76	Investigation of the complex vibronic structure in the first excited and ionic ground states of 3-chloropyridine by means of REMPI and MATI spectroscopy and Franck-Condon analysis. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 17917-17928.	2.8	1
77	Elucidating the Fragmentation Mechanism of Protonated Lewis A Trisaccharide using MS ⁿ /CID. <i>European Journal of Mass Spectrometry</i> , 2021, 27, 256-265.	1.0	1
78	Nano- and Femtosecond Laser Mass Spectrometry of Organic Molecules and Cluster. , 2009, , .		0
79	Recent Developments in Time-of-Flight Mass Spectrometry. <i>Advances in Imaging and Electron Physics</i> , 2015, 188, 25-78.	0.2	0
80	Editorial: Abstracts in Your Native Language. <i>European Journal of Mass Spectrometry</i> , 2016, 22, v-v.	1.0	0
81	Preface to the special issue of Mass Spectrometry Reviews. <i>Mass Spectrometry Reviews</i> , 2017, 36, 3-3.	5.4	0
82	Prof. Peter J Derrick (1945-2017). <i>European Journal of Mass Spectrometry</i> , 2017, 23, 317-318.	1.0	0
83	Editorial. <i>European Journal of Mass Spectrometry</i> , 2017, 23, 3-3.	1.0	0
84	Editor's personal foreword. <i>European Journal of Mass Spectrometry</i> , 2017, 23, 315-316.	1.0	0
85	Editorial. <i>European Journal of Mass Spectrometry</i> , 2017, 23, 91-91.	1.0	0
86	High-resolution mass spectrometry in a linear time-of-flight mass spectrometer. , 1994, , 139-148.		0
87	Studies of the First Electronically Excited State of 3-Fluoropyridine and Its Ionic Structure by Means of REMPI, Two-Photon MATI, One-Photon VUV-MATI Spectroscopy and Franck-Condon Analysis. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 2412-2423.	2.8	0