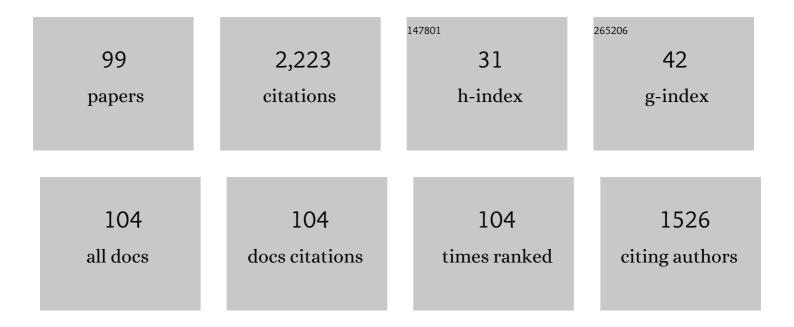
Barbara Chiavarino

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Cationâ€i€ Interactions between a Noble Metal and a Polyfunctional Aromatic Ligand: Ag ⁺ (benzylamine). Chemistry - A European Journal, 2022, 28, .	3.3	5
2	Ligation Motifs in Zinc-Bound Sulfonamide Drugs Assayed by IR Ion Spectroscopy. Molecules, 2022, 27, 3144.	3.8	0
3	Binding Motifs in the Naked Complexes of Target Amino Acids with an Excerpt of Antitumor Active Biomolecule: An Ion Vibrational Spectroscopy Assay. Chemistry - A European Journal, 2021, 27, 2348-2360.	3.3	3
4	Molecular Properties of Bare and Microhydrated Vitamin B5–Calcium Complexes. International Journal of Molecular Sciences, 2021, 22, 692.	4.1	5
5	Unprotected Galactosamine as a Dynamic Key for a Cyclochiral Lock. Journal of the American Society for Mass Spectrometry, 2021, 32, 736-743.	2.8	Ο
6	From Preassociation to Chelation: A Survey of Cisplatin Interaction with Methionine at Molecular Level by IR Ion Spectroscopy and Computations. Journal of the American Society for Mass Spectrometry, 2021, 32, 2206-2217.	2.8	7
7	Molecular Basis for the Remarkably Different Gas-Phase Behavior of Deprotonated Thyroid Hormones Triiodothyronine (T3) and Reverse Triiodothyronine (rT3): A Clue for Their Discrimination?. Analytical Chemistry, 2021, 93, 14869-14877.	6.5	7
8	Binding motifs of cisplatin interaction with simple biomolecules and aminoacid targets probed by IR ion spectroscopy. Pure and Applied Chemistry, 2020, 92, 3-13.	1.9	14
9	Applications of Infrared Multiple Photon Dissociation (IRMPD) to the Detection of Posttranslational Modifications. Chemical Reviews, 2020, 120, 3261-3295.	47.7	51
10	Can an Elusive Platinum(III) Oxidation State be Exposed in an Isolated Complex?. Angewandte Chemie - International Edition, 2020, 59, 15595-15598.	13.8	3
11	Can an Elusive Platinum(III) Oxidation State be Exposed in an Isolated Complex?. Angewandte Chemie, 2020, 132, 15725-15728.	2.0	1
12	Insights into Cisplatin Binding to Uracil and Thiouracils from IRMPD Spectroscopy and Tandem Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2020, 31, 946-960.	2.8	19
13	IRMPD Spectra of Protonated Hydroxybenzaldehydes: Evidence of Torsional Barriers in Carboxonium Ions. ChemPhysChem, 2020, 21, 749-761.	2.1	1
14	Metabolic profiling of different wild and cultivated <i>Allium</i> species based on highâ€resolution mass spectrometry, highâ€performance liquid chromatographyâ€photodiode array detector, and color analysis. Journal of Mass Spectrometry, 2020, 55, e4525.	1.6	11
15	IR ion spectroscopy in a combined approach with MS/MS and IM-MS to discriminate epimeric anthocyanin glycosides (cyanidin 3-O-glucoside and -galactoside). International Journal of Mass Spectrometry, 2019, 444, 116179.	1.5	22
16	Vibrational signatures of curcumin's chelation in copper(II) complexes: An appraisal by IRMPD spectroscopy. Journal of Chemical Physics, 2019, 150, 165101.	3.0	8
17	Short-lived intermediates (encounter complexes) in cisplatin ligand exchange elucidated by infrared ion spectroscopy. International Journal of Mass Spectrometry, 2019, 435, 7-17.	1.5	20
18	Complexation of halide ions to tyrosine: role of non-covalent interactions evidenced by IRMPD spectroscopy. Physical Chemistry Chemical Physics, 2018, 20, 4429-4441.	2.8	16

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19	Real time evolution of unprotected protonated galactosamine probed by IRMPD spectroscopy. Physical Chemistry Chemical Physics, 2018, 20, 8737-8743.	2.8	6
20	Cisplatin Primary Complex with <scp>l</scp> â€Histidine Target Revealed by IR Multiple Photon Dissociation (IRMPD) Spectroscopy. ChemPhysChem, 2017, 18, 318-325.	2.1	33
21	Cisplatin and transplatin interaction with methionine: bonding motifs assayed by vibrational spectroscopy in the isolated ionic complexes. Physical Chemistry Chemical Physics, 2017, 19, 26697-26707.	2.8	26
22	Undervalued N3 Coordination Revealed in the Cisplatin Complex with 2′-Deoxyadenosine-5′-monophosphate by a Combined IRMPD and Theoretical Study. Inorganic Chemistry, 2017, 56, 8793-8801.	4.0	17
23	Vibrational signatures of gaseous Meisenheimer complexes bonded at carbon and nitrogen. International Journal of Mass Spectrometry, 2017, 418, 173-179.	1.5	1
24	Cisplatin Binding to Biological Ligands Revealed at the Encounter Complex Level by IR Action Spectroscopy. Chemistry - A European Journal, 2016, 22, 3794-3803.	3.3	33
25	Amino Acid Oxidation: A Combined Study of Cysteine Oxo Forms by IRMPD Spectroscopy and Simulations. Chemistry - A European Journal, 2016, 22, 17239-17250.	3.3	19
26	Effects of Aromatic Fluorine Substitution on Protonated Neurotransmitters: The Case of 2â€Phenylethylamine. Chemistry - A European Journal, 2016, 22, 8124-8136.	3.3	13
27	IRMPD signature of protonated pantothenic acid, an ubiquitous nutrient. Chemical Physics Letters, 2016, 646, 162-167.	2.6	4
28	Exploring the Conformational Variability in the Heme b Propionic Acid Side Chains through the Effect of a Biological Probe: A Study of the Isolated Ions. Journal of Physical Chemistry B, 2015, 119, 1919-1929.	2.6	5
29	Nitrosyl–heme and anion–arene complexes: structure, reactivity and spectroscopy. Pure and Applied Chemistry, 2015, 87, 379-390.	1.9	2
30	IR spectrum of the protonated neurotransmitter 2-phenylethylamine: dispersion and anharmonicity of the NH ₃ ⁺ –݀ interaction. Physical Chemistry Chemical Physics, 2015, 17, 25742-25754.	2.8	34
31	Serine O-sulfation probed by IRMPD spectroscopy. Physical Chemistry Chemical Physics, 2015, 17, 25891-25904.	2.8	32
32	Interaction of Cisplatin with 5′-dGMP: A Combined IRMPD and Theoretical Study. Inorganic Chemistry, 2015, 54, 3513-3522.	4.0	37
33	Binding of azole drugs to heme: A combined MS/MS and computational approach. Polyhedron, 2015, 90, 245-251.	2.2	7
34	Elusive Sulfurous Acid: Gas-Phase Basicity and IR Signature of the Protonated Species. Journal of Physical Chemistry Letters, 2015, 6, 1605-1610.	4.6	17
35	Intrinsic Properties of Nitric Oxide Binding to Ferrous and Ferric Hemes. Croatica Chemica Acta, 2014, 87, 307-314.	0.4	8
36	Kinetic control in the CID-induced elimination of H ₃ PO ₄ from phosphorylated serine probed using IRMPD spectroscopy. Chemical Communications, 2014, 50, 3845-3848.	4.1	30

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37	Vibrational Signatures of <i>S</i> -Nitrosoglutathione as Gaseous, Protonated Species. Journal of Physical Chemistry B, 2014, 118, 12371-12382.	2.6	20
38	Cationâ~ï̃€ Interactions in Protonated Phenylalkylamines. Journal of Physical Chemistry A, 2014, 118, 7130-7138.	2.5	42
39	Halide adducts of 1,3,5-trinitrobenzene: Vibrational signatures and role of anion–π interactions. International Journal of Mass Spectrometry, 2013, 354-355, 62-69.	1.5	10
40	Vibrational Signatures of the Naked Aqua Complexes from Platinum(II) Anticancer Drugs. Journal of Physical Chemistry Letters, 2013, 4, 3631-3635.	4.6	39
41	Communication: Infrared spectroscopy of protonated allyl-trimethylsilane: Evidence for the β-silyl effect. Journal of Chemical Physics, 2013, 139, 071102.	3.0	6
42	Infrared spectroscopy of nucleotides in the gas phase 2. The protonated cyclic 3′,5′-adenosine monophosphate. RSC Advances, 2013, 3, 12711.	3.6	25
43	Interaction of Cisplatin with Adenine and Guanine: A Combined IRMPD, MS/MS, and Theoretical Study. Journal of the American Chemical Society, 2013, 135, 1445-1455.	13.7	64
44	N-nitrosation of N-acetyltryptophan probed by IR spectroscopy of the gaseous anion. Chemical Physics Letters, 2013, 588, 215-219.	2.6	5
45	Isomeric C5H11Si+ ions from the trimethylsilylation of acetylene: An experimental and theoretical study. International Journal of Mass Spectrometry, 2013, 334, 58-66.	1.5	8
46	IR Signature of NO Binding to a Ferrous Heme Center. Journal of Physical Chemistry Letters, 2013, 4, 2414-2417.	4.6	24
47	Cyanide–Arene Meisenheimer Complex Generated in Electrospray Ionization Mass Spectrometry Using Acetonitrile as a Solvent. Journal of the American Society for Mass Spectrometry, 2013, 24, 1603-1607.	2.8	13
48	Tandem Mass Spectrometry of Nitric Oxide and Hydrogen Sulfide Releasing Aspirins: A Hint into Activity Behavior. Mass Spectrometry, 2013, 2, A0017-A0017.	0.6	2
49	Communication: Vibrational study of a benzyl carbanion: Deprotonated 2,4-dinitrotoluene. Journal of Chemical Physics, 2012, 137, 181101.	3.0	9
50	Infrared spectroscopy of copper-resveratrol complexes: A joint experimental and theoretical study. Journal of Chemical Physics, 2012, 137, 024307.	3.0	46
51	S-nitrosation of cysteine as evidenced by IRMPD spectroscopy. International Journal of Mass Spectrometry, 2012, 330-332, 160-167.	1.5	31
52	Discrimination of 4-Hydroxyproline Diastereomers by Vibrational Spectroscopy of the Gaseous Protonated Species. Journal of Physical Chemistry B, 2012, 116, 8771-8779.	2.6	41
53	Benzylium versus Tropylium Ion Dichotomy: Vibrational Spectroscopy of Gaseous C ₈ H ₉ ⁺ Ions. Angewandte Chemie - International Edition, 2012, 51, 4947-4949.	13.8	38
54	IR spectroscopy of gaseous fluorocarbon ions: The perfluoroethyl anion. Chemical Physics, 2012, 398, 118-123.	1.9	9

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55	Naked Five-Coordinate FeIII(NO) Porphyrin Complexes: Vibrational and Reactivity Features. Inorganic Chemistry, 2011, 50, 4445-4452.	4.0	47
56	Tyrosine nitration as evidenced by IRMPD spectroscopy. International Journal of Mass Spectrometry, 2011, 308, 209-216.	1.5	21
57	Probing Bare High-Valent Transition Oxo–Metal Complexes: An Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Study of Reactive Intermediates. European Journal of Mass Spectrometry, 2010, 16, 407-414.	1.0	5
58	Protonated Sulfuric Acid: Vibrational Signatures of the Naked Ion in the Near- and Mid-IR. Journal of Physical Chemistry Letters, 2010, 1, 1721-1724.	4.6	12
59	Cysteine radical cation: A distonic structure probed by gas phase IR spectroscopy. Physical Chemistry Chemical Physics, 2010, 12, 9794.	2.8	55
60	IRMPD spectroscopy of protonated S-nitrosocaptopril, a biologically active, synthetic amino acid. Physical Chemistry Chemical Physics, 2010, 12, 13455.	2.8	20
61	Molecular Complexes of Simple Anions with Electronâ€Deficient Arenes: Spectroscopic Evidence for Two Types of Structural Motifs for Anion–Arene Interactions. Chemistry - A European Journal, 2009, 15, 8185-8195.	3.3	44
62	Midâ€iR Spectroscopy and Structural Features of Protonated Carbonic Acid in the Gas Phase. ChemPhysChem, 2009, 10, 520-522.	2.1	10
63	Direct Probe of NO Vibration in the Naked Ferric Heme Nitrosyl Complex. ChemPhysChem, 2008, 9, 826-828.	2.1	33
64	Infrared spectroscopy of isolated nucleotides. 1. The cyclic 3′,5′-adenosine monophosphate anion. International Journal of Mass Spectrometry, 2008, 270, 111-117.	1.5	43
65	Site-selectivity of protonation in gaseous toluene. Physical Chemistry Chemical Physics, 2008, 10, 5507.	2.8	6
66	Probing the Compound I-like Reactivity of a Bare High-Valent Oxo Iron Porphyrin Complex:  The Oxidation of Tertiary Amines. Journal of the American Chemical Society, 2008, 130, 3208-3217.	13.7	84
67	Unravelling the Intrinsic Features of NO Binding to Iron(II)- and Iron(III)-Hemes. Inorganic Chemistry, 2008, 47, 7792-7801.	4.0	36
68	Protonated Heme. Chemistry - A European Journal, 2007, 13, 776-785.	3.3	24
69	Meisenheimer Complexes Positively Characterized as Stable Intermediates in the Gas Phase. Angewandte Chemie - International Edition, 2007, 46, 1995-1998.	13.8	68
70	IR Spectroscopic Features of Gaseous C7H7O+Ions:Â Benzylium versus Tropylium Ion Structures. Journal of Physical Chemistry A, 2006, 110, 9352-9360.	2.5	50
71	IR spectroscopy of protonated toluene: Probing ring hydrogen shifts in gaseous arenium ions. International Journal of Mass Spectrometry, 2006, 249-250, 149-154.	1.5	49
72	Ï€-Complex Structure of Gaseous Benzeneâ^'NO Cations Assayed by IR Multiple Photon Dissociation Spectroscopy. Journal of the American Chemical Society, 2006, 128, 12553-12561.	13.7	55

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73	Binding of gaseous Fe(III)-heme cation to model biological molecules: Direct association and ligand transfer reactions. Journal of the American Society for Mass Spectrometry, 2005, 16, 589-598.	2.8	40
74	Infrared Spectroscopy of Protonated Phenylsilane in the Gas Phase. ChemPhysChem, 2005, 6, 437-440.	2.1	32
75	Chemistry of Protonated Species in Gaseous Environments. ChemInform, 2005, 36, no.	0.0	0
76	Cation–π interactions in gaseous ω-phenylalkyloxonium ions. International Journal of Mass Spectrometry, 2004, 235, 145-154.	1.5	9
77	Chemistry of protonated species in gaseous environments. Journal of Physical Organic Chemistry, 2004, 17, 957-966.	1.9	9
78	Infrared Absorption Features of Gaseous Isopropyl Carbocations. ChemPhysChem, 2004, 5, 1679-1685.	2.1	21
79	Gas-Phase Protonation of Benzocycloalkenes. European Journal of Mass Spectrometry, 2004, 10, 881-887.	1.0	4
80	Infrared Fingerprint of Protonated Benzene in the Gas Phase. Angewandte Chemie, 2003, 115, 2103-2105.	2.0	15
81	Infrared Fingerprint of Protonated Benzene in the Gas Phase. Angewandte Chemie - International Edition, 2003, 42, 2057-2059.	13.8	87
82	Gas phase regioselectivity in the deprotonation of p-cresol radical cation. Chemical Physics Letters, 2003, 372, 183-186.	2.6	6
83	Cationâ^ï̃€ Interactions in the Gas Phase Methylation of α,ï‰-Diphenylalkanes. Journal of Physical Chemistry A, 2003, 107, 4619-4624.	2.5	10
84	The trimethylsilylation of acetylene. Chemical Communications, 2002, , 1418-1419.	4.1	4
85	The Deprotonation of Benzyl Alcohol Radical Cations: A Mechanistic Dichotomy in the Gas Phase as in Solution. Chemistry - A European Journal, 2002, 8, 532-537.	3.3	13
86	Gas-Phase Dioxygen Activation by Binuclear Manganese Clusters. Chemistry - A European Journal, 2002, 8, 2740.	3.3	38
87	The Protonation of Gaseous Cyclopropane. Chemistry - A European Journal, 2001, 7, 2916-2921.	3.3	17
88	Gas-Phase Reactivity of Organosilane Radical Cations. An FT-ICR Study. Organometallics, 2000, 19, 844-848.	2.3	12
89	A Gas-Phase Study of the Ionic Alkylation of Benzocycloalkenes. Journal of the American Chemical Society, 2000, 122, 5397-5398.	13.7	11
90	Gas-Phase Ion Chemistry of Borazine, an Inorganic Analogue of Benzene. Journal of the American Chemical Society, 1999, 121, 11204-11210.	13.7	63

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91	Electrophilic Substitution of Gaseous Borazine. Journal of the American Chemical Society, 1999, 121, 2619-2620.	13.7	37
92	Determination of sulfonamide antibiotics by gas chromatography coupled with atomic emission detection. Biomedical Applications, 1998, 706, 269-277.	1.7	73
93	Gas-Phase H/D Exchange between Arenium Ions and Selected Bases. The Site of Protonation of Simple Aromatics. Journal of the American Chemical Society, 1998, 120, 10856-10862.	13.7	15
94	Radiolytic Silylation of Alkenes and Alkynes by Gaseous R3Si+Ions. Stereochemical Evidence for the β-Silyl Effect. Journal of the American Chemical Society, 1998, 120, 1523-1527.	13.7	22
95	Structure and Reactivity of Protonated α,α,α-Trifluorotoluene in the Gas Phase. A Combined FT-ICR, Radiolytic, and ab Initio MO Study. The Journal of Physical Chemistry, 1996, 100, 19859-19863.	2.9	8
96	BrÃ,nsted-Acid Behavior of C6(H,D)7+Benzenium Ions. A Combined Approach by Radiolytic, FA-SIFT, and FT-ICR Methodologies. The Journal of Physical Chemistry, 1996, 100, 16201-16208.	2.9	23
97	[Arene·Me3C+] non-covalent complexes in the gas-phase (trifluoro)methylation of tert-butyl-substituted diphenylalkanes. International Journal of Mass Spectrometry and Ion Processes, 1995, 148, 215-228.	1.8	12
98	Aromatic Silylation of (Trimethylgermyl)benzene by Gaseous Me3Si+ Ions via Me3Ge+ Displacement. Organometallics, 1995, 14, 2624-2626.	2.3	12
99	IRMPD Spectroscopy of Bare Monodeprotonated Genistein, an Antioxidant Flavonoid. ACS Omega, 0, , .	3.5	2