

Etienne Garand

List of Publications by Year in descending order

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61
papers

2,143
citations

279798

23
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all docs

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docs citations

65
times ranked

2119
citing authors

#	ARTICLE	IF	CITATIONS
1	Comment on "Microhydration of Biomolecules: Revealing the Native Structures by Cold Ion IR Spectroscopy" Journal of Physical Chemistry Letters, 2022, 13, 2046-2050.	4.6	6
2	Conformational Changes Induced by Methyl Side-Chains in Protonated Tripeptides Containing Glycine and Alanine Residues. Journal of Physical Chemistry A, 2022, 126, 4036-4045.	2.5	4
3	Anion Resonances and Photoelectron Spectroscopy of the Tetracetyl Anion. Journal of Physical Chemistry A, 2021, 125, 7014-7022.	2.5	4
4	Competition between Solvation and Intramolecular Hydrogen-Bonding in Microsolvated Protonated Glycine and β -Alanine. Journal of Physical Chemistry A, 2020, 124, 1593-1602.	2.5	15
5	Direct Measurement of the Visible to UV Photodissociation Processes for the PhotoCORM TryptoCORM. Chemistry - A European Journal, 2020, 26, 10297-10306.	3.3	8
6	Microsolvation Structures of Protonated Glycine and β -Alanine. Journal of Physical Chemistry A, 2019, 123, 3355-3366.	2.5	20
7	Vibrationally resolved photoelectron spectroscopy of oligothiophene radical anions. Journal of Chemical Physics, 2019, 151, 164301.	3.0	5
8	Accessing the Vibrational Signatures of Amino Acid Ions Embedded in Water Clusters. Journal of Physical Chemistry Letters, 2018, 9, 2246-2250.	4.6	25
9	Revealing the structure of isolated peptides: IR-IR predissociation spectroscopy of protonated triglycine isomers. Journal of Molecular Spectroscopy, 2018, 347, 28-34.	1.2	22
10	IR-IR Conformation Specific Spectroscopy of Na^+ (Glucose) Adducts. Journal of the American Society for Mass Spectrometry, 2018, 29, 42-50.	2.8	33
11	Probing Solvation-Induced Structural Changes in Conformationally Flexible Peptides: IR Spectroscopy of Gly_3H^+ (H_2O). Journal of Physical Chemistry A, 2018, 122, 8213-8221.	2.5	17
12	Spectroscopy of Reactive Complexes and Solvated Clusters: A Bottom-Up Approach Using Cryogenic Ion Traps. Journal of Physical Chemistry A, 2018, 122, 6479-6490.	2.5	28
13	Photoelectron spectroscopy of anthracene and fluoranthene radical anions. Journal of Chemical Physics, 2018, 148, 234306.	3.0	18
14	Ground and low-lying excited states of phenoxy, 1-naphthoxy, and 2-naphthoxy radicals via anion photoelectron spectroscopy. Journal of Chemical Physics, 2018, 149, 074309.	3.0	10
15	Mass Spectrometric and Vibrational Characterization of Reaction Intermediates in $[\text{Ru}(\text{bpy})(\text{tpy})(\text{H}_2\text{T})\text{ETQq1}]^{2+}$. 10.1021/acs.jpcc.7b11414	2.8	4
16	A multi-plate velocity-map imaging design for high-resolution photoelectron spectroscopy. Journal of Chemical Physics, 2017, 147, 094201.	3.0	13
17	Vibrational Characterization of Microsolvated Electrocatalytic Water Oxidation Intermediate: $[\text{Ru}(\text{tpy})(\text{bpy})(\text{OH})]^{2+}(\text{H}_2\text{O})_4$. Journal of Physical Chemistry A, 2017, 121, 5468-5474.	2.5	6
18	Characterization of the Oxygen Binding Motif in a Ruthenium Water Oxidation Catalyst by Vibrational Spectroscopy. Angewandte Chemie - International Edition, 2016, 55, 4079-4082.	13.8	20

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19	Interaction between ionic liquid cation and water: infrared predissociation study of [bmim] ⁺ ·(H ₂ O) _n clusters. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 18905-18913.	2.8	39
20	Characterization of the Oxygen Binding Motif in a Ruthenium Water Oxidation Catalyst by Vibrational Spectroscopy. <i>Angewandte Chemie</i> , 2016, 128, 4147-4150.	2.0	3
21	A dual cryogenic ion trap spectrometer for the formation and characterization of solvated ionic clusters. <i>Journal of Chemical Physics</i> , 2015, 143, 204201.	3.0	72
22	Probing the Hydrogen-Bonded Water Network at the Active Site of a Water Oxidation Catalyst: [Ru(bpy)(tpy)(H ₂ O)] ²⁺ ·(H ₂ O) ₄ . <i>Journal of Physical Chemistry A</i> , 2015, 119, 6326-6332.	2.5	28
23	Coordination structure and charge transfer in microsolvated transition metal hydroxide clusters [MOH] ⁺ (H ₂ O) ₄ . <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 23195-23206.	2.8	24
24	Charge transfer in MOH(H ₂ O) ⁺ (M = Mn, Fe, Co, Ni, Cu, Zn) complexes revealed by vibrational spectroscopy of mass-selected ions. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 25786-25792.	2.8	16
25	Vibrational spectroscopy of isolated copper(II) complexes with deprotonated triglycine and tetraglycine peptides. <i>RSC Advances</i> , 2015, 5, 1790-1795.	3.6	14
26	Intramolecular Hydrogen Bonding Motifs in Deprotonated Glycine Peptides by Cryogenic Ion Infrared Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2014, 118, 3906-3912.	2.5	17
27	Cryogenic Ion Chemistry and Spectroscopy. <i>Accounts of Chemical Research</i> , 2014, 47, 202-210.	15.6	256
28	Vibrational Spectroscopy of Small Hydrated CuOH ⁺ Clusters. <i>Journal of Physical Chemistry A</i> , 2014, 118, 2063-2071.	2.5	33
29	Quantifying Intrinsic Ion-Driven Conformational Changes in Diphenylacetylene Supramolecular Switches with Cryogenic Ion Vibrational Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2013, 117, 5962-5969.	2.5	4
30	Ground and low-lying excited states of propadienylidene (H ₂ C=C=C:) obtained by negative ion photoelectron spectroscopy. <i>Journal of Chemical Physics</i> , 2012, 136, 134312.	3.0	18
31	Characterization of an activated iridium water splitting catalyst using infrared photodissociation of H ₂ tagged ions. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 10109.	2.8	21
32	Determination of Noncovalent Docking by Infrared Spectroscopy of Cold Gas-Phase Complexes. <i>Science</i> , 2012, 335, 694-698.	12.6	127
33	Isomer-Specific IR-IR Double Resonance Spectroscopy of D ₂ -Tagged Protonated Dipeptides Prepared in a Cryogenic Ion Trap. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1099-1105.	4.6	88
34	Vibrationally resolved transition state spectroscopy of the F + H ₂ and F + CH ₄ reactions. <i>Faraday Discussions</i> , 2012, 157, 399.	3.2	30
35	Vibrational Characterization of Simple Peptides Using Cryogenic Infrared Photodissociation of H ₂ -Tagged, Mass-Selected Ions. <i>Journal of the American Chemical Society</i> , 2011, 133, 6440-6448.	13.7	139
36	Study of RgS ⁺ and RgS (Rg = Ne, Ar, and Kr) via slow photoelectron velocity-map imaging spectroscopy and ab initio calculations. <i>Journal of Chemical Physics</i> , 2011, 135, 024302.	3.0	5

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37	Quantitative vibronic coupling calculations: the formylxyl radical. Theoretical Chemistry Accounts, 2011, 129, 527-543.	1.4	28
38	Characterizing the Intramolecular H-bond and Secondary Structure in Methylated GlyGlyH ⁺ with H ₂ Predissociation Spectroscopy. Journal of the American Society for Mass Spectrometry, 2011, 22, 1941-52.	2.8	37
39	Slow photoelectron velocity-map imaging spectroscopy of the <i>n</i> -methylvinoxide anion. Journal of Chemical Physics, 2011, 134, 134307.	3.0	7
40	Anion Photoelectron Spectroscopy of C ₃ N ⁺ and C ₅ N ⁺ . Journal of Physical Chemistry A, 2010, 114, 3215-3220.	2.5	32
41	Slow Photoelectron Velocity-Map Imaging of the <i>i</i> -Methylvinoxide Anion. Journal of Physical Chemistry A, 2010, 114, 11091-11099.	2.5	10
42	Vibronic Structure of the Formylxyl Radical (HCO ₂) via Slow Photoelectron Velocity-Map Imaging Spectroscopy and Model Hamiltonian Calculations. Journal of Physical Chemistry A, 2010, 114, 1374-1383.	2.5	49
43	Infrared Spectroscopy of Hydrated Bicarbonate Anion Clusters: HCO ₃ ⁻ (H ₂ O) ₁₋₁₀ . Journal of the American Chemical Society, 2010, 132, 849-856.	13.7	146
44	Slow photoelectron velocity-map imaging of the C _n H ⁺ (n = 5-9) anions. Chemical Science, 2010, 1, 192.	7.4	16
45	Study of ArO ⁺ and ArO via Slow Photoelectron Velocity-Map Imaging Spectroscopy and <i>Ab Initio</i> Calculations. Journal of Physical Chemistry A, 2009, 113, 4631-4638.	2.5	9
46	Study of KrO ⁺ and KrO via Slow Photoelectron Velocity-Map Imaging Spectroscopy and <i>ab Initio</i> Calculations. Journal of Physical Chemistry A, 2009, 113, 14439-14446.	2.5	9
47	Slow photoelectron velocity-map imaging spectroscopy of C ₃ O ⁺ and C ₃ S ⁺ . Journal of Chemical Physics, 2009, 131, 054312.	3.0	8
48	Slow photoelectron velocity-map imaging spectroscopy of C ₂ N ⁺ , C ₄ N ⁺ , and C ₆ N ⁺ . Journal of Chemical Physics, 2009, 130, 064304.	3.0	41
49	Slow photoelectron velocity-map imaging spectroscopy of the vinoxide anion. Journal of Chemical Physics, 2009, 130, 244309.	3.0	20
50	Infrared Spectroscopy of the Microhydrated Nitrate Ions NO ₃ ⁻ (H ₂ O) ₁₋₆ . Journal of Physical Chemistry A, 2009, 113, 7584-7592.	2.5	209
51	Vibrational spectra of small silicon monoxide cluster cations measured by infrared multiple photon dissociation spectroscopy. Physical Chemistry Chemical Physics, 2008, 10, 1502.	2.8	22
52	Localization vs Conduction: Anionic Excitations in Alkanethiol Self-Assembled Monolayers. Langmuir, 2008, 24, 13850-13854.	3.5	0
53	Nonadiabatic Interactions in the Cl + H ₂ Reaction Probed by ClH ₂ ⁺ and CID ₂ ⁻ Photoelectron Imaging. Science, 2008, 319, 72-75.	12.6	74
54	Characterization of cyclic and linear C ₃ H ⁺ and C ₃ H via anion photoelectron spectroscopy. Journal of Chemical Physics, 2008, 128, 034301.	3.0	28

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55	Slow photoelectron imaging spectroscopy of CCO^{\ominus} and CCS^{\ominus} . Journal of Chemical Physics, 2008, 129, 074312.	3.0	16
56	Vibrational spectroscopy of hydrated electron clusters $(\text{H}_2\text{O})_{15}^{\ominus}$ via infrared multiple photon dissociation. Journal of Chemical Physics, 2007, 126, 191105.	3.0	74
57	Slow electron velocity-map imaging spectroscopy of the 1-propynyl radical. Journal of Chemical Physics, 2007, 127, 034304.	3.0	21
58	Slow electron velocity-map imaging spectroscopy of the $\text{C}_4\text{H}^{\ominus}$ and $\text{C}_4\text{D}^{\ominus}$ anions. Journal of Chemical Physics, 2007, 127, 154320.	3.0	37
59	Vibronic structure in $\text{C}_2\text{H}^{\ominus}$ and $\text{C}_2\text{D}^{\ominus}$ from anion slow electron velocity-map imaging spectroscopy. Journal of Chemical Physics, 2007, 127, 114313.	3.0	26
60	The Mechanism of Hydrogen Formation Induced by Low-Energy Electron Irradiation of Hexadecanethiol Self-Assembled Monolayers. Journal of Physical Chemistry B, 2005, 109, 12927-12934.	2.6	15
61	Inter- and Intramolecular Temperature-Dependent Vibrational Perturbations of Alkanethiol Self-Assembled Monolayers. Journal of Physical Chemistry B, 2004, 108, 8182-8189.	2.6	17