

Oleg V Boyarkin

List of Publications by Year in descending order

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49
papers

2,312
citations

304368

22
h-index

205818

48
g-index

55
all docs

55
docs citations

55
times ranked

1357
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectroscopic studies of cold, gas-phase biomolecular ions. <i>International Reviews in Physical Chemistry</i> , 2009, 28, 481-515.	0.9	308
2	Electronic Spectroscopy of Cold, Protonated Tryptophan and Tyrosine. <i>Journal of the American Chemical Society</i> , 2006, 128, 2816-2817.	6.6	263
3	Conformation-Specific Spectroscopy and Photodissociation of Cold, Protonated Tyrosine and Phenylalanine. <i>Journal of the American Chemical Society</i> , 2007, 129, 11814-11820.	6.6	195
4	Interplay of Intra- and Intermolecular H-Bonding in a Progressively Solvated Macrocyclic Peptide. <i>Science</i> , 2012, 336, 320-323.	6.0	152
5	Microsolvation Effects on the Excited-State Dynamics of Protonated Tryptophan. <i>Journal of the American Chemical Society</i> , 2006, 128, 16938-16943.	6.6	144
6	Spectroscopic Signatures of Gas-Phase Helices: Ac-Phe-(Ala)5-Lys-H+ and Ac-Phe-(Ala)10-Lys-H+. <i>Journal of the American Chemical Society</i> , 2007, 129, 13820-13821.	6.6	116
7	Spectroscopy and conformational preferences of gas-phase helices. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 125-132.	1.3	115
8	UV and IR Spectroscopic Studies of Cold Alkali Metal Ion-Crown Ether Complexes in the Gas Phase. <i>Journal of the American Chemical Society</i> , 2011, 133, 12256-12263.	6.6	90
9	Conformation-specific infrared and ultraviolet spectroscopy of tyrosine-based protonated dipeptides. <i>Journal of Chemical Physics</i> , 2007, 127, 154322.	1.2	80
10	Highly Resolved Spectra of Gas-Phase Gramicidin S: A Benchmark for Peptide Structure Calculations. <i>Journal of the American Chemical Society</i> , 2010, 132, 4040-4041.	6.6	78
11	Cold Ion Spectroscopy Reveals the Intrinsic Structure of a Decapeptide. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 5383-5386.	7.2	63
12	Accurate bond dissociation energy of water determined by triple-resonance vibrational spectroscopy and ab initio calculations. <i>Chemical Physics Letters</i> , 2013, 568-569, 14-20.	1.2	60
13	Exploring the Mechanism of IR-UV Double-Resonance for Quantitative Spectroscopy of Protonated Polypeptides and Proteins. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6002-6005.	7.2	54
14	Cryogenic Methods for the Spectroscopy of Large, Biomolecular Ions. <i>Topics in Current Chemistry</i> , 2014, 364, 43-97.	4.0	47
15	Cryogenically cooled octupole ion trap for spectroscopy of biomolecular ions. <i>Review of Scientific Instruments</i> , 2014, 85, 033105.	0.6	46
16	Microhydration Effects on the Encapsulation of Potassium Ion by Dibenzo-18-Crown-6. <i>Journal of the American Chemical Society</i> , 2014, 136, 1815-1824.	6.6	46
17	Fragmentation mechanism of UV-excited peptides in the gas phase. <i>Journal of Chemical Physics</i> , 2014, 141, 154309.	1.2	42
18	Cold ion spectroscopy for structural identifications of biomolecules. <i>International Reviews in Physical Chemistry</i> , 2018, 37, 559-606.	0.9	39

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19	Colors for Molecular Masses: Fusion of Spectroscopy and Mass Spectrometry for Identification of Biomolecules. <i>Analytical Chemistry</i> , 2015, 87, 4607-4611.	3.2	34
20	Vibrational Signatures of Conformer-Specific Intramolecular Interactions in Protonated Tryptophan. <i>Journal of Physical Chemistry A</i> , 2016, 120, 5598-5608.	1.1	32
21	Conformational Structures of a Decapeptide Validated by First Principles Calculations and Cold Ion Spectroscopy. <i>ChemPhysChem</i> , 2015, 16, 1374-1378.	1.0	28
22	Resonance Energy Transfer Relates the Gas-Phase Structure and Pharmacological Activity of Opioid Peptides. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 689-692.	7.2	25
23	Identification of Tyrosine-Phosphorylated Peptides Using Cold Ion Spectroscopy. <i>Journal of the American Chemical Society</i> , 2014, 136, 9288-9291.	6.6	18
24	Intrinsic structure of pentapeptide Leu-enkephalin: geometry optimization and validation by comparison of VSCF-PT2 calculations with cold ion spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 24894-24901.	1.3	18
25	Interplay of H-Bonds with Aromatics in Isolated Complexes Identifies Isomeric Carbohydrates. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7346-7350.	7.2	18
26	Nonstatistical UV Fragmentation of Gas-Phase Peptides Reveals Conformers and Their Structural Features. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1067-1071.	2.1	17
27	A Decapeptide Hydrated by Two Waters: Conformers Determined by Theory and Validated by Cold Ion Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2017, 121, 9401-9408.	1.1	16
28	Identification of Isomeric Ephedrines by Cold Ion UV Spectroscopy: Toward Practical Implementation. <i>Analytical Chemistry</i> , 2017, 89, 544-547.	3.2	15
29	Identification and Quantification of Any Isoforms of Carbohydrates by 2D UV-MS Fingerprinting of Cold Ions. <i>Analytical Chemistry</i> , 2020, 92, 14624-14632.	3.2	13
30	Exploring the relevance of gas-phase structures to biology: cold ion spectroscopy of the decapeptide neurokinin A. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 3468-3472.	1.3	12
31	Microhydration of Biomolecules: Revealing the Native Structures by Cold Ion IR Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 907-911.	2.1	12
32	High Susceptibility of Histidine to Charge Solvation Revealed by Cold Ion Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15639-15643.	7.2	11
33	Initial Steps of Amyloidogenic Peptide Assembly Revealed by Cold Ion Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 213-217.	7.2	10
34	Identification of isoforms of aspartic acid residues in peptides by 2D UV-MS fingerprinting of cold ions. <i>Analyst</i> , 2018, 143, 833-836.	1.7	8
35	Identification of Isomeric Lipids by UV Spectroscopy of Noncovalent Complexes with Aromatic Molecules. <i>Analytical Chemistry</i> , 2021, 93, 12822-12826.	3.2	8
36	Peptide Bond Ultraviolet Absorption Enables Vibrational Cold-Ion Spectroscopy of Nonaromatic Peptides. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5262-5266.	2.1	7

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37	Spectroscopic Evidence for Peptide-Bond-Selective Ultraviolet Photodissociation. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 206-209.	2.1	7
38	Tracking local and global structural changes in a protein by cold ion spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 8158-8165.	1.3	6
39	Dissociation threshold of H ₂ 18O: Validating ab initio calculations by state-selective triple-resonance spectroscopy. <i>Chemical Physics Letters</i> , 2015, 627, 73-76.	1.2	5
40	Method for Identification of Threonine Isoforms in Peptides by Ultraviolet Photofragmentation of Cold Ions. <i>Analytical Chemistry</i> , 2019, 91, 6709-6715.	3.2	5
41	Identification of Isomeric Biomolecules by Infrared Spectroscopy of Solvent-Tagged Ions. <i>Analytical Chemistry</i> , 2022, 94, 9514-9518.	3.2	5
42	Ultraviolet Photodissociation of Peptides: New Insight on the Mobile Proton Model. <i>Journal of Experimental and Theoretical Physics</i> , 2020, 130, 626-632.	0.2	4
43	Revealing Single-Bond Anomeric Selectivity in Carbohydrate-Protein Interactions. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3327-3331.	2.1	4
44	Accelerating photofragmentation UV Spectroscopy-Mass spectrometry fingerprinting for quantification of isomeric peptides. <i>Talanta</i> , 2021, 232, 122412.	2.9	4
45	Interplay of H-Bonds with Aromatics in Isolated Complexes Identifies Isomeric Carbohydrates. <i>Angewandte Chemie</i> , 2019, 131, 7424-7428.	1.6	3
46	Gas-phase structures reflect the pain-relief potency of enkephalin peptides. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 22700-22703.	1.3	3
47	Initial Steps of Amyloidogenic Peptide Assembly Revealed by Cold-Ion Spectroscopy. <i>Angewandte Chemie</i> , 2018, 130, 219-223.	1.6	2
48	High Susceptibility of Histidine to Charge Solvation Revealed by Cold Ion Spectroscopy. <i>Angewandte Chemie</i> , 2017, 129, 15845-15849.	1.6	1
49	Titelbild: Exploring the Mechanism of IR-UV Double-Resonance for Quantitative Spectroscopy of Protonated Polypeptides and Proteins (<i>Angew. Chem.</i> 23/2013). <i>Angewandte Chemie</i> , 2013, 125, 6001-6001.	1.6	0