

# Oleg V Boyarkin

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51  
papers

2,055  
citations

22  
h-index

45  
g-index

55  
ext. papers

2,194  
ext. citations

8.2  
avg, IF

5.07  
L-index

#	Paper	IF	Citations
51	Accelerating photofragmentation UV Spectroscopy-Mass spectrometry fingerprinting for quantification of isomeric peptides. <i>Talanta</i> , <b>2021</b> , 232, 122412	6.2	1
50	Identification of Isomeric Lipids by UV Spectroscopy of Noncovalent Complexes with Aromatic Molecules. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 12822-12826	7.8	2
49	Microhydration of Biomolecules: Revealing the Native Structures by Cold Ion IR Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 907-911	6.4	6
48	Ultraviolet Photodissociation of Peptides: New Insight on the Mobile Proton Model. <i>Journal of Experimental and Theoretical Physics</i> , <b>2020</b> , 130, 626-632	1	2
47	Spectroscopic Evidence for Peptide-Bond-Selective Ultraviolet Photodissociation. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 206-209	6.4	3
46	Identification and Quantification of Any Isoforms of Carbohydrates by 2D UV-MS Fingerprinting of Cold Ions. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 14624-14632	7.8	9
45	Revealing Single-Bond Anomeric Selectivity in Carbohydrate-Protein Interactions. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 3327-3331	6.4	3
44	Method for Identification of Threonine Isoforms in Peptides by Ultraviolet Photofragmentation of Cold Ions. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 6709-6715	7.8	4
43	Interplay of H-Bonds with Aromatics in Isolated Complexes Identifies Isomeric Carbohydrates. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 7346-7350	16.4	15
42	Interplay of H-Bonds with Aromatics in Isolated Complexes Identifies Isomeric Carbohydrates. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 7424-7428	3.6	1
41	Gas-phase structures reflect the pain-relief potency of enkephalin peptides. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 22700-22703	3.6	2
40	Identification of isoforms of aspartic acid residues in peptides by 2D UV-MS fingerprinting of cold ions. <i>Analyst, The</i> , <b>2018</b> , 143, 833-836	5	7
39	Initial Steps of Amyloidogenic Peptide Assembly Revealed by Cold-Ion Spectroscopy. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 213-217	16.4	10
38	Initial Steps of Amyloidogenic Peptide Assembly Revealed by Cold-Ion Spectroscopy. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 219-223	3.6	2
37	Cold ion spectroscopy for structural identifications of biomolecules. <i>International Reviews in Physical Chemistry</i> , <b>2018</b> , 37, 559-606	7	23
36	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> , <b>2018</b> , 20, 24894-24901	3.6	9
35	Peptide Bond Ultraviolet Absorption Enables Vibrational Cold-Ion Spectroscopy of Nonaromatic Peptides. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 5262-5266	6.4	5

34	Exploring the relevance of gas-phase structures to biology: cold ion spectroscopy of the decapeptide neurokinin A. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 3468-3472	3.6	11
33	Identification of Isomeric Ephedrines by Cold Ion UV Spectroscopy: Toward Practical Implementation. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 544-547	7.8	13
32	High Susceptibility of Histidine to Charge Solvation Revealed by Cold Ion Spectroscopy. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 15639-15643	16.4	10
31	A Decapeptide Hydrated by Two Waters: Conformers Determined by Theory and Validated by Cold Ion Spectroscopy. <i>Journal of Physical Chemistry A</i> , <b>2017</b> , 121, 9401-9408	2.8	11
30	High Susceptibility of Histidine to Charge Solvation Revealed by Cold Ion Spectroscopy. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 15845-15849	3.6	1
29	Vibrational Signatures of Conformer-Specific Intramolecular Interactions in Protonated Tryptophan. <i>Journal of Physical Chemistry A</i> , <b>2016</b> , 120, 5598-608	2.8	29
28	Nonstatistical UV Fragmentation of Gas-Phase Peptides Reveals Conformers and Their Structural Features. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 1067-71	6.4	16
27	Resonance Energy Transfer Relates the Gas-Phase Structure and Pharmacological Activity of Opioid Peptides. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 699-702	3.6	6
26	Resonance Energy Transfer Relates the Gas-Phase Structure and Pharmacological Activity of Opioid Peptides. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 689-92	16.4	22
25	Innenrücktitelbild: Resonance Energy Transfer Relates the Gas-Phase Structure and Pharmacological Activity of Opioid Peptides (Angew. Chem. 2/2016). <i>Angewandte Chemie</i> , <b>2016</b> , 128, 831-831	3.6	
24	Colors for molecular masses: fusion of spectroscopy and mass spectrometry for identification of biomolecules. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 4607-11	7.8	30
23	Dissociation threshold of H <sub>2</sub> 18O: Validating ab initio calculations by state-selective triple-resonance spectroscopy. <i>Chemical Physics Letters</i> , <b>2015</b> , 627, 73-76	2.5	5
22	Conformational structures of a decapeptide validated by first principles calculations and cold ion spectroscopy. <i>ChemPhysChem</i> , <b>2015</b> , 16, 1374-8	3.2	25
21	Cryogenic methods for the spectroscopy of large, biomolecular ions. <i>Topics in Current Chemistry</i> , <b>2015</b> , 364, 43-97		34
20	Microhydration effects on the encapsulation of potassium ion by dibenzo-18-crown-6. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 1815-24	16.4	37
19	Identification of tyrosine-phosphorylated peptides using cold ion spectroscopy. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 9288-91	16.4	16
18	Cryogenically cooled octupole ion trap for spectroscopy of biomolecular ions. <i>Review of Scientific Instruments</i> , <b>2014</b> , 85, 033105	1.7	42
17	Fragmentation mechanism of UV-excited peptides in the gas phase. <i>Journal of Chemical Physics</i> , <b>2014</b> , 141, 154309	3.9	31

16	Accurate bond dissociation energy of water determined by triple-resonance vibrational spectroscopy and ab initio calculations. <i>Chemical Physics Letters</i> , <b>2013</b> , 568-569, 14-20	2.5	54
15	Exploring the mechanism of IR-UV double-resonance for quantitative spectroscopy of protonated polypeptides and proteins. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 6002-5	16.4	53
14	Titelbild: Exploring the Mechanism of IR-UV Double-Resonance for Quantitative Spectroscopy of Protonated Polypeptides and Proteins (Angew. Chem. 23/2013). <i>Angewandte Chemie</i> , <b>2013</b> , 125, 6001-6001	16.4	53
13	Exploring the Mechanism of IR-UV Double-Resonance for Quantitative Spectroscopy of Protonated Polypeptides and Proteins. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 6118-6121	3.6	8
12	Interplay of intra- and intermolecular H-bonding in a progressively solvated macrocyclic peptide. <i>Science</i> , <b>2012</b> , 336, 320-3	33.3	138
11	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> , <b>2011</b> , 133, 12256-63	16.4	80
10	Kalte Ionenspektroskopie zur Lösung der Gasphasenstruktur eines Decapeptids. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 5495-5498	3.6	9
9	Cold-ion spectroscopy reveals the intrinsic structure of a decapeptide. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 5383-6	16.4	58
8	Highly resolved spectra of gas-phase gramicidin s: a benchmark for peptide structure calculations. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 4040-1	16.4	72
7	Spectroscopy and conformational preferences of gas-phase helices. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 125-32	3.6	111
6	Spectroscopic studies of cold, gas-phase biomolecular ions. <i>International Reviews in Physical Chemistry</i> , <b>2009</b> , 28, 481-515	7	289
5	Spectroscopic signatures of gas-phase helices: Ac-Phe-(Ala) <sub>5</sub> -Lys-H <sup>+</sup> and Ac-Phe-(Ala) <sub>10</sub> -Lys-H <sup>+</sup> . <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 13820-1	16.4	113
4	Conformation-specific spectroscopy and photodissociation of cold, protonated tyrosine and phenylalanine. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 11814-20	16.4	178
3	Conformation-specific infrared and ultraviolet spectroscopy of tyrosine-based protonated dipeptides. <i>Journal of Chemical Physics</i> , <b>2007</b> , 127, 154322	3.9	78
2	Microsolvation effects on the excited-state dynamics of protonated tryptophan. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 16938-43	16.4	130
1	Electronic spectroscopy of cold, protonated tryptophan and tyrosine. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 2816-7	16.4	239