

Han-Bin Oh

List of Publications by Year in Descending Order

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Version: 2024-04-26

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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.

94
papers

2,219
citations

21
h-index

45
g-index

97
ext. papers

2,451
ext. citations

4.2
avg, IF

4.58
L-index

#	Paper	IF	Citations
94	Unveiling host-guest-solvent interactions in solution by identifying highly unstable host-guest configurations in thermal non-equilibrium gas phase.. <i>Scientific Reports</i> , 2022 , 12, 8169	4.9	2
93	Characteristics of the Molecular Weight of Polyhexamethylene Guanidine (PHMG) Used as a Household Humidifier Disinfectant. <i>Molecules</i> , 2021 , 26,	4.8	2
92	Biofilm development of <i>Bacillus siamensis</i> ATKU1 on pristine short chain low-density polyethylene: A case study on microbe-microplastics interaction. <i>Journal of Hazardous Materials</i> , 2021 , 409, 124516	12.8	14
91	Liposome leakage and increased cellular permeability induced by guanidine-based oligomers: effects of liposome composition on liposome leakage and human lung epithelial barrier permeability.. <i>RSC Advances</i> , 2021 , 11, 32000-32011	3.7	1
90	Inactivation of the [(1, 2)-xylosyltransferase and the [(1, 3)-fucosyltransferase gene in rice (<i>Oryza sativa</i>) by multiplex CRISPR/Cas9 strategy. <i>Plant Cell Reports</i> , 2021 , 40, 1025-1035	5.1	4
89	A solvent-free headspace GC/MS method for sensitive screening of N-nitrosodimethylamine in drug products. <i>Analytical Methods</i> , 2021 , 13, 3402-3409	3.2	0
88	Reliable screening and classification of phosphodiesterase type 5 inhibitors in dietary supplements using gas chromatography / mass spectrometry combined with specific common ions. <i>Journal of Chromatography A</i> , 2020 , 1623, 461210	4.5	7
87	Multiresidue analysis of 85 persistent organic pollutants in small human serum samples by modified QuEChERS preparation with different ionization sources in mass spectrometry. <i>Journal of Chromatography A</i> , 2020 , 1623, 461170	4.5	7
86	Graph theory-based reaction pathway searches and DFT calculations for the mechanism studies of free radical-initiated peptide sequencing mass spectrometry (FRIPS MS): a model gas-phase reaction of GGR tri-peptide. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 5057-5069	3.6	2
85	Sex-related differences in urinary immune-related metabolic profiling of alopecia areata patients. <i>Metabolomics</i> , 2020 , 16, 15	4.7	1
84	Characteristics of Exposure to Chloromethylisothiazolinone (CMIT) and Methylisothiazolinone (MIT) among Humidifier Disinfectant-Associated Lung Injury (HDLI) Patients in South Korea. <i>Molecules</i> , 2020 , 25,	4.8	5
83	Photo-Oxidative Protection of Chlorophyll in C-Phycocyanin Aqueous Medium. <i>Antioxidants</i> , 2020 , 9,	7.1	3
82	Properties of Polyhexamethylene Guanidine (PHMG) Associated with Fatal Lung Injury in Korea. <i>Molecules</i> , 2020 , 25,	4.8	10
81	Noncovalent Complexes of Cyclodextrin with Small Organic Molecules: Applications and Insights into Host-Guest Interactions in the Gas Phase and Condensed Phase. <i>Molecules</i> , 2020 , 25,	4.8	10
80	Untargeted Metabolomics and Steroid Signatures in Urine of Male Pattern Baldness Patients after Finasteride Treatment for a Year. <i>Metabolites</i> , 2020 , 10,	5.6	5
79	Abnormal behaviors in the calibration curves of liquid chromatography-tandem mass spectrometry occurring in the quantitative analysis of surfactants near critical micelle concentrations. <i>Journal of Mass Spectrometry</i> , 2020 , 56, e4599	2.2	
78	Comprehensive screening of multiclass illegal adulterants in herbal supplements and Spice-type drugs using specific MS/MS fragmentations by UHPLC-Q/TOF-MS. <i>Analytical Methods</i> , 2019 , 11, 5260-5273	7.2	2

77	Enhanced Incorporation of Gaseous CO ₂ to Succinate by a Recombinant Escherichia coli W3110. <i>Biotechnology and Bioprocess Engineering</i> , 2019 , 24, 103-108	3.1	4
76	LC-MS/MS Software for Screening Unknown Erectile Dysfunction Drugs and Analogues: Artificial Neural Network Classification, Peak-Count Scoring, Simple Similarity Search, and Hybrid Similarity Search Algorithms. <i>Analytical Chemistry</i> , 2019 , 91, 9119-9128	7.8	10
75	Synergistic effects of urban tributary mixing on dissolved organic matter biodegradation in an impounded river system. <i>Science of the Total Environment</i> , 2019 , 676, 105-119	10.2	12
74	Quantitative MALDI-TOF mass spectrometric analysis of biocidal polyhexamethylene guanidine (PHMG) oligomers in consumer products. <i>International Journal of Mass Spectrometry</i> , 2019 , 435, 298-304 ¹⁻⁹		5
73	Free Radical-Initiated Peptide Sequencing Mass Spectrometry for Phosphopeptide Post-translational Modification Analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 2019 , 30, 538-547	3.5	2
72	Rapid screening of sulfonamides in dietary supplements based on extracted common ion chromatogram and neutral loss scan by LC-Q/TOF-mass spectrometry. <i>Journal of Food and Drug Analysis</i> , 2019 , 27, 164-174	7	10
71	Ionization of Gas-Phase Polycyclic Aromatic Hydrocarbons in Electrospray Ionization Coupled with Gas Chromatography. <i>Analytical Chemistry</i> , 2018 , 90, 4203-4211	7.8	9
70	Fragmentation Pathways of Tadalafil and Its Analogues in Electrospray Ionization Tandem Mass Spectrometry. <i>Bulletin of the Korean Chemical Society</i> , 2018 , 39, 190-196	1.2	4
69	Microbial production of uracil by an isolated Methylobacterium sp. WJ4 using methanol. <i>Enzyme and Microbial Technology</i> , 2018 , 111, 63-66	3.8	1
68	Chiral differentiation of d- and l-isoleucine using permethylated β -cyclodextrin: infrared multiple photon dissociation spectroscopy, ion-mobility mass spectrometry, and DFT calculations. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 30428-30436	3.6	14
67	GC/MS Method for the Quantitative Analysis of Limonene from Genetically Engineered <i>Saccharomyces cerevisiae</i> . <i>Bulletin of the Korean Chemical Society</i> , 2018 , 39, 1368-1372	1.2	0
66	Reliable screening and confirmation of 156 multi-class illegal adulterants in dietary supplements based on extracted common ion chromatograms by ultra-high-performance liquid chromatography-quadrupole/time of flight-mass spectrometry. <i>Journal of Chromatography A</i> , 2017 , 1584, 43-51	4.5	18
65	Application of paper EWOD (electrowetting-on-dielectrics) chip: Protein tryptic digestion and its detection using MALDI-TOF mass spectrometry. <i>Biochip Journal</i> , 2017 , 11, 146-152	4	13
64	Chiral differentiation of d- and l-alanine by permethylated β -cyclodextrin: IRMPD spectroscopy and DFT methods. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 14729-14737	3.6	15
63	Increased incorporation of gaseous CO into succinate by Escherichia coli overexpressing carbonic anhydrase and phosphoenolpyruvate carboxylase genes. <i>Journal of Biotechnology</i> , 2017 , 241, 101-107	3.7	5
62	Online Simultaneous Hydrogen/Deuterium Exchange of Multitarget Gas-Phase Molecules by Electrospray Ionization Mass Spectrometry Coupled with Gas Chromatography. <i>Analytical Chemistry</i> , 2017 , 89, 12284-12292	7.8	8
61	Prediction of liquid chromatography retention times of erectile dysfunction drugs and analogues using chemometric approaches. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2017 , 40, 790-797	1.3	4
60	Sample preparation of chemical warfare agent simulants on a digital microfluidic (DMF) device using magnetic bead-based solid-phase extraction. <i>Microfluidics and Nanofluidics</i> , 2017 , 21, 1	2.8	6

59	TEMPO-Assisted Free Radical-Initiated Peptide Sequencing Mass Spectrometry (FRIPS MS) in Q-TOF and Orbitrap Mass Spectrometers: Single-Step Peptide Backbone Dissociations in Positive Ion Mode. <i>Journal of the American Society for Mass Spectrometry</i> , 2017 , 28, 154-163	3.5	7
58	Collisional Activation Dissociation Mass Spectrometry Studies of Oligosaccharides Conjugated with Na ⁺ -Encapsulated Dibenzo-18-Crown-6 Ether. <i>Mass Spectrometry Letters</i> , 2016 , 7, 96-101		2
57	MALDI-TOF Mass Spectrometric Analysis of Chemical Warfare Nerve Agent Simulants. <i>Bulletin of the Korean Chemical Society</i> , 2016 , 37, 316-320	1.2	4
56	Production of uracil from methane by a newly isolated <i>Methylomonas</i> sp. SW1. <i>Journal of Biotechnology</i> , 2016 , 240, 43-47	3.7	2
55	A Liquid Chromatography-Quadrupole-Time of Flight Mass Spectrometry (LC-Q-TOF MS) Study for Analyzing 35 Corticosteroid Compounds: Elucidation of MS/MS Fragmentation Pathways. <i>Bulletin of the Korean Chemical Society</i> , 2016 , 37, 1029-1038	1.2	11
54	Design and synthesis of new mass tags for matrix-free laser desorption ionization mass spectrometry (LDI-MS) based on 6,11-dihydrothiochromeno[4,3-b]indole. <i>Tetrahedron</i> , 2016 , 72, 5612-5619	2.4	8
53	Quantitative analysis of polyhexamethylene guanidine (PHMG) oligomers via matrix-assisted laser desorption/ionization time-of-flight mass spectrometry with an ionic-liquid matrix. <i>Rapid Communications in Mass Spectrometry</i> , 2015 , 29, 213-9	2.2	14
52	Proposed nomenclature for peptide ion fragmentation. <i>International Journal of Mass Spectrometry</i> , 2015 , 390, 24-27	1.9	51
51	Infrared Multiple Photon Depletion of the Gas-phase Proton-bound Cytosine Dimer. <i>Chemistry Letters</i> , 2015 , 44, 1756-1758	1.7	6
50	Guanidination of lysine residue improves the sensitivity and facilitates the interpretation of free radical initiated peptide sequencing (FRIPS) mass spectrometry results. <i>International Journal of Mass Spectrometry</i> , 2015 , 390, 110-117	1.9	6
49	Bromine isotopic signature facilitates de novo sequencing of peptides in free-radical-initiated peptide sequencing (FRIPS) mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2015 , 50, 378-87	2.2	7
48	Radical-driven peptide backbone dissociation tandem mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2015 , 34, 116-32	11	35
47	Infrared multiple photon dissociation spectroscopy and density functional theory (DFT) studies of protonated permethylated β -cyclodextrin-water non-covalent complexes. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 8376-83	3.6	14
46	Photodissociation of TEMPO-modified peptides: new approaches to radical-directed dissociation of biomolecules. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 4871-9	3.6	17
45	Structural and biochemical study of <i>Bacillus subtilis</i> HmoB in complex with heme. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 446, 286-91	3.4	6
44	Structural and functional characterization of an Isd-type haem-degradation enzyme from <i>Listeria monocytogenes</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014 , 70, 615-26		12
43	Structural and functional characterization of an Isd-type haem-degradation enzyme from <i>Listeria monocytogenes</i> . Corrigendum. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2014 , 70, 1498-1498		
42	Density Functional Theory (DFT) Study of Gas-phase O.C Bond Dissociation Energy of Models for o-TEMPO-Bz-C(O)-Peptide: A Model Study for Free Radical Initiated Peptide Sequencing. <i>Bulletin of the Korean Chemical Society</i> , 2014 , 35, 770-774	1.2	1

41	Tandem mass spectrometric analysis of isosorbide-1,4-cyclohexane-dicarboxylic acid polyester oligomer cations using ion-trap mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2013 , 27, 1913-8	2.2	4
40	One-step peptide backbone dissociations in negative-ion free radical initiated peptide sequencing mass spectrometry. <i>Analytical Chemistry</i> , 2013 , 85, 7044-51	7.8	27
39	MALDI-TOF Analysis of Polyhexamethylene Guanidine (PHMG) Oligomers Used as a Commercial Antibacterial Humidifier Disinfectant. <i>Bulletin of the Korean Chemical Society</i> , 2013 , 34, 1708-1714	1.2	12
38	Charge-Directed Peptide Backbone Dissociations of o-TEMPO-Bz-C(O)-Peptides. <i>Mass Spectrometry Letters</i> , 2013 , 4, 71-74		10
37	MALDI in-source decay mass spectrometry of polyamidoamine dendrimers. <i>Journal of the American Society for Mass Spectrometry</i> , 2012 , 23, 1821-5	3.5	9
36	Protein Analysis Using a Combination of an Online Monolithic Trypsin Immobilized Enzyme Reactor and Collisionally-Activated Dissociation/Electron Transfer Dissociation Dual Tandem Mass Spectrometry. <i>Bulletin of the Korean Chemical Society</i> , 2012 , 33, 3233-3240	1.2	3
35	A Multidimensional System for Phosphopeptide Analysis Using TiO ₂ Enrichment and Ion-exchange Chromatography with Mass Spectrometry. <i>Bulletin of the Korean Chemical Society</i> , 2012 , 33, 3298-3302	1.2	3
34	Examination of Various Metal Ion Sources for Reducing Nonspecific Zinc finger-Zn ²⁺ -Complex Formation in ESI Mass Spectrometry. <i>Mass Spectrometry Letters</i> , 2012 , 3, 82-85		2
33	Multivariate analysis of electron detachment dissociation and infrared multiphoton dissociation mass spectra of heparan sulfate tetrasaccharides differing only in hexuronic acid stereochemistry. <i>Journal of the American Society for Mass Spectrometry</i> , 2011 , 22, 582-90	3.5	31
32	Disulfide bond cleavage in TEMPO-free radical initiated peptide sequencing mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2011 , 46, 830-9	2.2	37
31	Zinc-finger motif noncovalent interactions with double-stranded DNA characterized by negative-ion electrospray ionization mass spectrometry. <i>Analyst, The</i> , 2011 , 136, 3739-46	5	7
30	Host-guest chemistry in the gas phase: complex formation with 18-crown-6 enhances helicity of alanine-based peptides. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 14215-20	2.8	10
29	Synergetic and antagonistic role of natural antioxidant in the autoxidation of soybean oil. <i>Journal of Industrial and Engineering Chemistry</i> , 2011 , 17, 537-542	6.3	7
28	Dynamic modeling of lactic acid fermentation metabolism with <i>Lactococcus lactis</i> . <i>Journal of Microbiology and Biotechnology</i> , 2011 , 21, 162-9	3.3	16
27	Determination of the Intracellular Concentrations of Metabolites in <i>Escherichia coli</i> Collected during the Exponential and Stationary Growth Phases using Liquid Chromatography-Mass Spectrometry. <i>Bulletin of the Korean Chemical Society</i> , 2011 , 32, 524-530	1.2	14
26	High Accuracy Mass Measurement Approach in the Identification of Phospholipids in Lipid Extracts: 7 T Fourier-transform Mass Spectrometry and MS/MS Validation. <i>Bulletin of the Korean Chemical Society</i> , 2011 , 32, 1170-1178	1.2	1
25	An anomalous dissociation of protonated cluster ions of DNA guanine-cytosine base-pair. <i>Mass Spectrometry Letters</i> , 2011 , 2, 73-75		14
24	Collisionally-Activated Dissociation of Peptides with a Disulfide Bond: Confirmation of the Mobile-Proton Model Based Explanation 2010 , 1, 5-8		3

23	Numerous isomers of serine octamer ions characterized by infrared photodissociation spectroscopy. <i>ChemPhysChem</i> , 2009 , 10, 2603-6	3.2	35
22	Characterization of permethylated β -cyclodextrin-peptide noncovalently bound complexes using electron capture dissociation mass spectrometry (ECD MS). <i>International Journal of Mass Spectrometry</i> , 2009 , 279, 47-52	1.9	20
21	Ultraviolet photodissociation at 266 nm of phosphorylated peptide cations. <i>Rapid Communications in Mass Spectrometry</i> , 2009 , 23, 3609-20	2.2	25
20	Investigation of the MALDI process used to characterize self-assembled monolayers of alkanethiolates on gold. <i>Langmuir</i> , 2009 , 25, 3692-7	4	6
19	Gas-phase peptide sequencing by TEMPO-mediated radical generation. <i>Analyst, The</i> , 2009 , 134, 1706-12	5	55
18	Optimized Automatic Noise Level Calculations for Broadband FT-ICR Mass Spectra of Petroleum Give More Reliable and Faster Peak Picking Results. <i>Bulletin of the Korean Chemical Society</i> , 2009 , 30, 2665-2668	1.2	57
17	Base-pair interactions in the gas-phase proton-bonded complexes of C+G and C+GC. <i>Journal of Chemical Physics</i> , 2007 , 127, 245102	3.9	21
16	Evaluation of the internal temperatures of an 8.6 kDa protein cation exposed to a hot dispenser cathode employed in electron capture dissociation mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2006 , 20, 1918-24	2.2	10
15	Electron capture dissociation mass spectrometry of peptide cations containing a lysine homologue: a mobile proton model for explaining the observation of b-type product ions. <i>Rapid Communications in Mass Spectrometry</i> , 2006 , 20, 3167-75	2.2	18
14	Theoretical study of the ionic hydrogen bond in the isolated proton-bound dimer of cytosine. <i>Chemical Physics Letters</i> , 2006 , 432, 269-274	2.5	25
13	Observation of pronounced b*,y cleavages in the electron capture dissociation mass spectrometry of polyamidoamine (PAMAM) dendrimer ions with amide functionalities. <i>Journal of the American Society for Mass Spectrometry</i> , 2006 , 17, 536-543	3.5	34
12	Infrared photodissociation spectroscopy of electrosprayed ions in a Fourier transform mass spectrometer. <i>Journal of the American Chemical Society</i> , 2005 , 127, 4076-83	16.4	149
11	Tautomerism and isomerism of guanine-cytosine DNA base pair: Ab initio and density functional theory approaches. <i>Computational and Theoretical Chemistry</i> , 2005 , 730, 241-249		15
10	Nonergodic and conformational control of the electron capture dissociation of protein cations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 14011-6	11.5	149
9	Top down characterization of secreted proteins from Mycobacterium tuberculosis by electron capture dissociation mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2003 , 14, 253-61	3.5	70
8	Plasma electron capture dissociation for the characterization of large proteins by top down mass spectrometry. <i>Analytical Chemistry</i> , 2003 , 75, 1599-603	7.8	71
7	Secondary and tertiary structures of gaseous protein ions characterized by electron capture dissociation mass spectrometry and photofragment spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 15863-8	11.5	210
6	Top-down mass spectrometry of a 29-kDa protein for characterization of any posttranslational modification to within one residue. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 1774-9	11.5	232

5	Hydrogen Atom Loss in Electron-Capture Dissociation: A Fourier Transform-Ion Cyclotron Resonance Study with Single Isotopomeric Ubiquitin Ions. <i>European Journal of Mass Spectrometry</i> , 2002 , 8, 177-180	1.1	48
4	Detailed unfolding and folding of gaseous ubiquitin ions characterized by electron capture dissociation. <i>Journal of the American Chemical Society</i> , 2002 , 124, 6407-20	16.4	273
3	Dynamics of harpooning studied by transition state spectroscopy. Part III. Li...FCH ₃ . <i>Faraday Discussions</i> , 2001 , 191-207; discussion 233-45	3.6	12
2	Dynamics of harpooning studied by transition state spectroscopy. II. Li...FH. <i>Journal of Chemical Physics</i> , 2000 , 113, 9897-9900	3.9	28
1	Photoelectron spectroscopy of pyridine cluster anions, (Py) _n ⁻ (n=4-13). <i>Journal of Chemical Physics</i> , 1999 , 111, 4041-4050	3.9	24