

# Sang Tak Lee

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

510  
citations

759233

12  
h-index

752698

20  
g-index

42  
all docs

42  
docs citations

42  
times ranked

704  
citing authors

#	ARTICLE	IF	CITATIONS
1	Radical-driven peptide backbone dissociation tandem mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2015, 34, 116-132.	5.4	41
2	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, 582-590.	2.8	33
3	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.	12.4	32
4	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, 4048.	3.8	30
5	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, 1491, 43-56.	3.7	29
6	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.	6.5	25
7	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.	8.0	25
8	Properties of Polyhexamethylene Guanidine (PHMG) Associated with Fatal Lung Injury in Korea. <i>Molecules</i> , 2020, 25, 3301.	3.8	24
9	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.	4.9	18
10	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.	1.9	17
11	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.	1.9	13
12	Ionization of Gas-Phase Polycyclic Aromatic Hydrocarbons in Electrospray Ionization Coupled with Gas Chromatography. <i>Analytical Chemistry</i> , 2018, 90, 4203-4211.	6.5	13
13	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.	3.7	13
14	Increased incorporation of gaseous CO <sub>2</sub> into succinate by <i>Escherichia coli</i> overexpressing carbonic anhydrase and phosphoenolpyruvate carboxylase genes. <i>Journal of Biotechnology</i> , 2017, 241, 101-107.	3.8	12
15	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.	3.7	12
16	Structural and biochemical study of <i>Bacillus subtilis</i> HmoB in complex with heme. <i>Biochemical and Biophysical Research Communications</i> , 2014, 446, 286-291.	2.1	11
17	Global Changes in Lipid Profiles of Mouse Cortex, Hippocampus, and Hypothalamus Upon p53 Knockout. <i>Scientific Reports</i> , 2016, 6, 36510.	3.3	11
18	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, 5284.	3.8	11

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19	Quantitative proteomic profiling of Cervicovaginal fluid from pregnant women with term and preterm birth. <i>Proteome Science</i> , 2021, 19, 3.	1.7	11
20	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.	2.8	10
21	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.	6.5	9
22	Combining asymmetrical flow field-flow fractionation with on- and off-line fluorescence detection to examine biodegradation of riverine dissolved and particulate organic matter. <i>Journal of Chromatography A</i> , 2015, 1409, 218-225.	3.7	8
23	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.	2.2	8
24	Untargeted Metabolomics and Steroid Signatures in Urine of Male Pattern Baldness Patients after Finasteride Treatment for a Year. <i>Metabolites</i> , 2020, 10, 131.	2.9	8
25	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.	3.6	8
26	Unveiling host-guest solvent interactions in solution by identifying highly unstable guest configurations in thermal non-equilibrium gas phase. <i>Scientific Reports</i> , 2022, 12, 8169.	3.3	8
27	Infrared Multiple Photon Depletion of the Gas-phase Proton-bound Cytosine Dimer. <i>Chemistry Letters</i> , 2015, 44, 1756-1758.	1.3	7
28	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.	1.0	7
29	Enhanced Incorporation of Gaseous CO <sub>2</sub> to Succinate by a Recombinant <i>Escherichia coli</i> W3110. <i>Biotechnology and Bioprocess Engineering</i> , 2019, 24, 103-108.	2.6	7
30	Characteristics of the Molecular Weight of Polyhexamethylene Guanidine (PHMG) Used as a Household Humidifier Disinfectant. <i>Molecules</i> , 2021, 26, 4490.	3.8	7
31	Effect of carbon nanomaterial dimension on the functional activity and degeneration of neurons. <i>Biomaterials</i> , 2021, 279, 121232.	11.4	7
32	Revealing Unknown Controlled Substances and New Psychoactive Substances Using High-Resolution LC-MS-MS Machine Learning Models and the Hybrid Similarity Search Algorithm. <i>Journal of Analytical Toxicology</i> , 2022, 46, 732-742.	2.8	6
33	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.	1.9	5
34	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.	2.8	5
35	<sc>MALDI-TOF</sc> Mass Spectrometric Analysis of Chemical Warfare Nerve Agent Simulants. <i>Bulletin of the Korean Chemical Society</i> , 2016, 37, 316-320.	1.9	4
36	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.	2.7	4

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37	TEMPO-Assisted Free-Radical-Initiated Peptide Sequencing Mass Spectrometry for Ubiquitin Ions: An Insight on the Gas-Phase Conformations. <i>Journal of the American Society for Mass Spectrometry</i> , 2022, 33, 471-481.	2.8	4
38	Production of uracil from methane by a newly isolated <i>Methylomonas</i> sp. SW1. <i>Journal of Biotechnology</i> , 2016, 240, 43-47.	3.8	2
39	Microbial production of uracil by an isolated <i>Methylobacterium</i> sp. WJ4 using methanol. <i>Enzyme and Microbial Technology</i> , 2018, 111, 63-66.	3.2	2
40	Sex-related differences in urinary immune-related metabolic profiling of alopecia areata patients. <i>Metabolomics</i> , 2020, 16, 15.	3.0	2
41	Development of Triglyceride Certified Reference Materials in Human Frozen Serum Using Isotope Dilution-Liquid Chromatography-Tandem Mass Spectrometry. <i>Bulletin of the Korean Chemical Society</i> , 2019, 40, 418-423.	1.9	1
42	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> , 2021, 56, e4599.	1.6	0