

# Sang Tak Lee

## List of Publications by Year in descending order

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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	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
2	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
3	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
4	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
5	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
6	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
7	Quantitative proteomic profiling of Cervicovaginal fluid from pregnant women with term and preterm birth. <i>Proteome Science</i> , 2021, 19, 3.	1.7	11
8	Characteristics of the Molecular Weight of Polyhexamethylene Guanidine (PHMG) Used as a Household Humidifier Disinfectant. <i>Molecules</i> , 2021, 26, 4490.	3.8	7
9	Effect of carbon nanomaterial dimension on the functional activity and degeneration of neurons. <i>Biomaterials</i> , 2021, 279, 121232.	11.4	7
10	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
11	Properties of Polyhexamethylene Guanidine (PHMG) Associated with Fatal Lung Injury in Korea. <i>Molecules</i> , 2020, 25, 3301.	3.8	24
12	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
13	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
14	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
15	Sex-related differences in urinary immune-related metabolic profiling of alopecia areata patients. <i>Metabolomics</i> , 2020, 16, 15.	3.0	2
16	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
17	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
18	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

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19	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
20	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
21	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
22	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
23	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
24	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
25	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
26	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
27	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
28	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
29	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
30	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
31	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
32	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
33	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
34	<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
35	Global Changes in Lipid Profiles of Mouse Cortex, Hippocampus, and Hypothalamus Upon p53 Knockout. <i>Scientific Reports</i> , 2016, 6, 36510.	3.3	11
36	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

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37	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. Bulletin of the Korean Chemical Society, 2016, 37, 1029-1038.	1.9	13
38	Infrared Multiple Photon Depletion of the Gas-phase Proton-bound Cytosine Dimer. Chemistry Letters, 2015, 44, 1756-1758.	1.3	7
39	Radical-driven peptide backbone dissociation tandem mass spectrometry. Mass Spectrometry Reviews, 2015, 34, 116-132.	5.4	41
40	Combining asymmetrical flow field-flow fractionation with on- and off-line fluorescence detection to examine biodegradation of riverine dissolved and particulate organic matter. Journal of Chromatography A, 2015, 1409, 218-225.	3.7	8
41	Structural and biochemical study of Bacillus subtilis HmoB in complex with heme. Biochemical and Biophysical Research Communications, 2014, 446, 286-291.	2.1	11
42	Multivariate Analysis of Electron Detachment Dissociation and Infrared Multiphoton Dissociation Mass Spectra of Heparan Sulfate Tetrasaccharides Differing Only in Hexuronic acid Stereochemistry. Journal of the American Society for Mass Spectrometry, 2011, 22, 582-590.	2.8	33