

Kelvin Sze-Yin Leung

List of Publications by Year in descending order

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99
papers

3,467
citations

117571

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168321

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docs citations

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times ranked

4436
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of high-performance liquid chromatographic fingerprints for distinguishing Chinese Angelica from related umbelliferae herbs. <i>Journal of Chromatography A</i> , 2005, 1073, 383-392.	1.8	170
2	Evaluating the environmental impact of artificial sweeteners: A study of their distributions, photodegradation and toxicities. <i>Water Research</i> , 2014, 52, 260-274.	5.3	132
3	Quantification of Zeaxanthin Dipalmitate and Total Carotenoids in Lycium Fruits (<i>Fructus Lycii</i>). <i>Plant Foods for Human Nutrition</i> , 2005, 60, 161-164.	1.4	124
4	Authentication is Fundamental for Standardization of Chinese Medicines. <i>Planta Medica</i> , 2006, 72, 865-874.	0.7	104
5	Risks of organic UV filters: a review of environmental and human health concern studies. <i>Science of the Total Environment</i> , 2021, 755, 142486.	3.9	102
6	Environmental occurrence and ecological risk assessment of organic UV filters in marine organisms from Hong Kong coastal waters. <i>Science of the Total Environment</i> , 2016, 566-567, 489-498.	3.9	94
7	Assay of free ferulic acid and total ferulic acid for quality assessment of <i>Angelica sinensis</i> . <i>Journal of Chromatography A</i> , 2005, 1068, 209-219.	1.8	90
8	Qualitative and quantitative analyses of nucleosides and nucleobases in <i>Ganoderma</i> spp. by HPLC-DAD-MS. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007, 44, 807-811.	1.4	82
9	Toxicity Assessment of Nine Types of Decoction Pieces from the Daughter Root of <i>Aconitum carmichaeli</i> (Fuzi) Based on the Chemical Analysis of their Diester Diterpenoid Alkaloids. <i>Planta Medica</i> , 2010, 76, 825-830.	0.7	76
10	Simultaneous determination of naphthoquinone derivatives in Boraginaceous herbs by high-performance liquid chromatography. <i>Analytica Chimica Acta</i> , 2006, 577, 26-31.	2.6	73
11	Strategies to overcome spectral interference in ICP-MS detection. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 1078-1088.	1.6	72
12	LC-MS/MS in the routine clinical laboratory: has its time come?. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 2289-2301.	1.9	71
13	Identification and determination of the major constituents in traditional Chinese medicinal plant <i>Polygonum multiflorum</i> Thunb by HPLC coupled with PAD and ESI/MS. <i>Phytochemical Analysis</i> , 2007, 18, 181-187.	1.2	67
14	Antitumor activity of diethynylfluorene derivatives of gold(I). <i>Bioorganic and Medicinal Chemistry</i> , 2009, 17, 7872-7877.	1.4	65
15	Selective recognition of arsenic by tailoring ion-imprinted polymer for ICP-MS quantification. <i>Talanta</i> , 2012, 89, 162-168.	2.9	62
16	Effects of Weathering on the Sorption Behavior and Toxicity of Polystyrene Microplastics in Multi-solute Systems. <i>Water Research</i> , 2020, 187, 116419.	5.3	61
17	Differentiation of Asian ginseng, American ginseng and Notoginseng by Fourier transform infrared spectroscopy combined with two-dimensional correlation infrared spectroscopy. <i>Journal of Molecular Structure</i> , 2008, 883-884, 91-98.	1.8	60
18	Highly sensitive and selective organophosphate screening in twelve commodities of fruits, vegetables and herbal medicines by dispersive liquid-liquid microextraction. <i>Analytica Chimica Acta</i> , 2013, 775, 58-66.	2.6	58

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19	Photocatalytic transformation of acesulfame: Transformation products identification and embryotoxicity study. <i>Water Research</i> , 2016, 89, 68-75.	5.3	58
20	Simultaneous Qualitative and Quantitative Analyses of the Major Constituents in the Rhizome of <i>Ligusticum Chuanxiong</i> Using HPLC-DAD-MS. <i>Chemical and Pharmaceutical Bulletin</i> , 2006, 54, 255-259.	0.6	54
21	Systematic evaluation of organochlorine pesticide residues in Chinese materia medica. <i>Phytotherapy Research</i> , 2005, 19, 514-518.	2.8	53
22	Analytical Challenges: Determination of Tetrodotoxin in Human Urine and Plasma by LC-MS/MS. <i>Marine Drugs</i> , 2011, 9, 2291-2303.	2.2	53
23	Dense thiol arrays for metal-organic frameworks: boiling water stability, Hg removal beyond 2 ppb and facile crosslinking. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14566-14570.	5.2	52
24	Degradation of tetracycline and sulfadiazine during continuous thermophilic composting of pig manure and sawdust. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 2433-2441.	1.2	51
25	Quality assessment of <i>Rhizoma et Radix Notopterygii</i> by HPTLC and HPLC fingerprinting and HPLC quantitative analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007, 44, 812-817.	1.4	50
26	Transformation of acesulfame in chlorination: Kinetics study, identification of byproducts, and toxicity assessment. <i>Water Research</i> , 2017, 117, 157-166.	5.3	49
27	Glucuronide and sulfate conjugates of tetrabromobisphenol A (TBBPA): Chemical synthesis and correlation between their urinary levels and plasma TBBPA content in voluntary human donors. <i>Environment International</i> , 2017, 98, 46-53.	4.8	39
28	Joint Effects of Multiple UV Filters on Zebrafish Embryo Development. <i>Environmental Science & Technology</i> , 2018, 52, 9460-9467.	4.6	38
29	Quantification of ligustilides in the roots of <i>Angelica sinensis</i> and related umbelliferous medicinal plants by high-performance liquid chromatography and liquid chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2004, 1046, 101-107.	1.8	38
30	Comparative Analysis of <i>Ligusticum chuanxiong</i> and Related Umbelliferous Medicinal Plants by High Performance Liquid Chromatography-Electrospray Ionization Mass Spectrometry. <i>Planta Medica</i> , 2007, 73, 392-398.	0.7	37
31	Sorption and desorption of organic UV filters onto microplastics in single and multi-solute systems. <i>Environmental Pollution</i> , 2019, 254, 113066.	3.7	36
32	Determination of Patchoulic Alcohol in <i>Herba Pogostemonis</i> by GC-MS-MS. <i>Chemical and Pharmaceutical Bulletin</i> , 2005, 53, 856-860.	0.6	35
33	Influence of livestock activities on residue antibiotic levels of rivers in Hong Kong. <i>Environmental Science and Pollution Research</i> , 2017, 24, 9058-9066.	2.7	35
34	Application of atmospheric pressure chemical ionisation mass spectrometry in the identification and differentiation of <i>Panax</i> Species. <i>Phytochemical Analysis</i> , 2007, 18, 146-150.	1.2	34
35	Development and validation of a high-throughput double solid phase extraction-liquid chromatography-tandem mass spectrometry method for the determination of tetrodotoxin in human urine and plasma. <i>Talanta</i> , 2011, 83, 1030-1036.	2.9	34
36	Forensic Analysis of Laser Printed Ink by X-ray Fluorescence and Laser-Excited Plume Fluorescence. <i>Analytical Chemistry</i> , 2013, 85, 4311-4315.	3.2	34

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37	Identification and Comparative Determination of Senkyunolide A in Traditional Chinese Medicinal Plants <i>Ligusticum chuanxiong</i> and <i>Angelica sinensis</i> by HPLC Coupled with DAD and ESI-MS. <i>Chemical and Pharmaceutical Bulletin</i> , 2005, 53, 1480-1483.	0.6	33
38	CODEX-compliant eleven organophosphorus pesticides screening in multiple commodities using headspace-solid phase microextraction-gas chromatography-mass spectrometry. <i>Food Chemistry</i> , 2013, 136, 710-717.	4.2	33
39	Environmental behavior of 12 UV filters and photocatalytic profile of ethyl-4-aminobenzoate. <i>Journal of Hazardous Materials</i> , 2017, 337, 115-125.	6.5	31
40	Review of Biological and Pharmacological Activities of the Endemic Taiwanese Bitter Medicinal Mushroom, <i>Antrodia camphorata</i> (M. Zang et C. H. Su) Sh. H. Wu et al. (Higher Basidiomycetes). <i>International Journal of Medicinal Mushrooms</i> , 2012, 14, 241-256.	0.9	31
41	Establishment of HPLC-DAD-MS Fingerprint of Fresh <i>Houttuynia cordata</i> . <i>Chemical and Pharmaceutical Bulletin</i> , 2005, 53, 1604-1609.	0.6	30
42	Rapid speciation of methylated and ethylated mercury in urine using headspace solid phase microextraction coupled to LC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 1758.	1.6	30
43	Distinguishing the medicinal herb <i>Oldenlandia diffusa</i> from similar species of the same genus using fluorescence microscopy. <i>Microscopy Research and Technique</i> , 2006, 69, 277-282.	1.2	29
44	An indirubin derivative, E804, exhibits potent angiosuppressive activity. <i>Biochemical Pharmacology</i> , 2012, 83, 598-607.	2.0	29
45	Establishment of GC-MS Fingerprint of Fresh <i>Houttuynia cordata</i> . <i>Chemical and Pharmaceutical Bulletin</i> , 2005, 53, 1484-1489.	0.6	28
46	Comparative study on the aristolochic acid I content of <i>Herba Asari</i> for safe use. <i>Phytomedicine</i> , 2008, 15, 741-748.	2.3	28
47	Improved liquid chromatography-tandem mass spectrometry method in clinical utility for the diagnosis of Cushing's syndrome. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 396, 783-790.	1.9	28
48	The crucial role of heavy metals on the interaction of engineered nanoparticles with polystyrene microplastics. <i>Water Research</i> , 2021, 201, 117317.	5.3	28
49	Occurrence of phthalate esters in over-the-counter medicines from China and its implications for human exposure. <i>Environment International</i> , 2017, 98, 137-142.	4.8	27
50	Simultaneous quantification of eight bioactive components of <i>Houttuynia cordata</i> and related Saururaceae medicinal plants by on-line high performance liquid chromatography-diode array detector-electrospray mass spectrometry. <i>FASEB J</i> , 2009, 80, 468-474.	1.1	26
51	Organic UV filter exposure and pubertal development: A prospective follow-up study of urban Chinese adolescents. <i>Environment International</i> , 2020, 143, 105961.	4.8	26
52	Ionic-liquid-based dispersive liquid-liquid microextraction for high-throughput multiple food contaminant screening. <i>Journal of Separation Science</i> , 2013, 36, 3791-3798.	1.3	25
53	Glucuronide and Sulfate Conjugates of Bisphenol A: Chemical Synthesis and Correlation Between Their Urinary Levels and Plasma Bisphenol A Content in Voluntary Human Donors. <i>Archives of Environmental Contamination and Toxicology</i> , 2017, 73, 410-420.	2.1	25
54	Current evidence for the hepatoprotective activities of the medicinal mushroom <i>Antrodia cinnamomea</i> . <i>Chinese Medicine</i> , 2013, 8, 21.	1.6	24

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55	Removing acesulfame with the peroxone process: Transformation products, pathways and toxicity. <i>Chemosphere</i> , 2019, 221, 647-655.	4.2	24
56	Differentiation of Rhizoma Et Radix Polygoni Cuspidati from Closely Related Herbs by HPLC Fingerprinting. <i>Chemical and Pharmaceutical Bulletin</i> , 2006, 54, 1179-1186.	0.6	23
57	Determination of paralytic shellfish toxins in dinoflagellate <i>Alexandrium tamarense</i> by using isotachopheresis/capillary electrophoresis. <i>Journal of Separation Science</i> , 2006, 29, 399-404.	1.3	21
58	Toward the use of surface modified activated carbon in speciation: Selective preconcentration of selenite and selenate in environmental waters. <i>Journal of Chromatography A</i> , 2011, 1218, 2160-2164.	1.8	21
59	Synthesis and Characterization of Bromophenol Glucuronide and Sulfate Conjugates for Their Direct LC-MS/MS Quantification in Human Urine as Potential Exposure Markers for Polybrominated Diphenyl Ethers. <i>Analytical Chemistry</i> , 2012, 84, 9881-9888.	3.2	21
60	Acesulfame aerobic biodegradation by enriched consortia and <i>Chelatococcus</i> spp.: Kinetics, transformation products, and genomic characterization. <i>Water Research</i> , 2021, 202, 117454.	5.3	21
61	Improved chromatographic fingerprints for facile differentiation of two <i>Ganoderma</i> spp.. <i>Biomedical Chromatography</i> , 2009, 23, 280-288.	0.8	20
62	Optimization and validation of a chromatographic method for the simultaneous quantification of six bioactive compounds in Rhizoma et Radix Polygoni Cuspidati. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 60, 107-113.	1.2	20
63	The effects of <i>Boehmeria nivea</i> (L.) Gaud. on embryonic development: In vivo and in vitro studies. <i>Journal of Ethnopharmacology</i> , 2011, 134, 393-398.	2.0	20
64	Quantifying silver nanoparticle association and elemental content in single cells using dual mass mode in quadrupole-based inductively coupled plasma-mass spectrometry. <i>Analytica Chimica Acta</i> , 2019, 1061, 50-59.	2.6	20
65	Single particle ICP-MS combined with internal standardization for accurate characterization of polydisperse nanoparticles in complex matrices. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 2148-2155.	1.6	20
66	Preliminary occurrence studies of antibiotic residues in Hong Kong and Pearl River Delta. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 745-754.	1.3	19
67	Elemental bioimaging of platinum in mouse tissues by laser ablation-inductively coupled plasma-mass spectrometry for the study of localization behavior of structurally similar complexes. <i>International Journal of Mass Spectrometry</i> , 2016, 404, 40-47.	0.7	19
68	Determination of Iridoid Glucosides for Quality Assessment of Herba Oldenlandiae by High-Performance Liquid Chromatography. <i>Chemical and Pharmaceutical Bulletin</i> , 2006, 54, 1131-1137.	0.6	18
69	Harmonization of monographic standards is needed to ensure the quality of Chinese medicinal materials. <i>Chinese Medicine</i> , 2009, 4, 18.	1.6	18
70	The mechanism of ArF laser-induced fluorescence of dense plume matter. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 2363-2374.	1.6	18
71	Elemental Analysis of Chinese Black Inks on Xuan Paper by ArF Laser-Excited Plume Fluorescence. <i>Analytical Chemistry</i> , 2016, 88, 10971-10978.	3.2	18
72	The evaluation on embryotoxicity of <i>Dipsaci Radix</i> with mice and embryonic stem cells. <i>Journal of Ethnopharmacology</i> , 2014, 151, 114-122.	2.0	17

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73	Fate of UV filter Ethylhexyl methoxycinnamate in rat model and human urine: Metabolism, exposure and demographic associations. <i>Science of the Total Environment</i> , 2019, 686, 729-736.	3.9	17
74	Degradation of acesulfame in UV/monochloramine process: Kinetics, transformation pathways and toxicity assessment. <i>Journal of Hazardous Materials</i> , 2021, 403, 123935.	6.5	17
75	Simultaneous determination of seven elemental species in estuarine waters by LC-ICP-DRC-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 880.	1.6	16
76	Development, optimization, and use of an APCI source with temperature-controlled vaporization of solid and liquid samples. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 1373-1381.	1.9	16
77	Quantification of acylglycines in human urine by HPLC electrospray ionization-tandem mass spectrometry and the establishment of pediatric reference interval in local Chinese. <i>Talanta</i> , 2012, 88, 193-200.	2.9	15
78	Quality evaluation of mycelial <i>Antrodia camphorata</i> using high-performance liquid chromatography (HPLC) coupled with diode array detector and mass spectrometry (DAD-MS). <i>Chinese Medicine</i> , 2010, 5, 4.	1.6	14
79	Current developments in clinical sample preconcentration prior to elemental analysis by atomic spectrometry: a comprehensive literature review. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 234-241.	1.6	14
80	Current applications and future perspectives on elemental analysis of non-invasive samples for human biomonitoring. <i>Talanta</i> , 2021, 234, 122683.	2.9	13
81	Dual-elemental analysis of single particles using quadrupole-based inductively coupled plasma-mass spectrometry. <i>Analytica Chimica Acta</i> , 2022, 1192, 339389.	2.6	13
82	Determination of plasma cholesterol sulfate by LC-APCI-MS/MS in the context of pediatric autism. <i>Talanta</i> , 2013, 116, 115-121.	2.9	12
83	Transformations of organic micropollutants undergoing permanganate/bisulfite treatment: Kinetics, pathways and toxicity. <i>Chemosphere</i> , 2019, 237, 124524.	4.2	12
84	Integration of sub-organ quantitative imaging LA-ICP-MS and fractionation reveals differences in translocation and transformation of CeO ₂ and Ce ³⁺ in mice. <i>Analytica Chimica Acta</i> , 2019, 1082, 18-29.	2.6	11
85	Improved quality assessment of proprietary Chinese medicines based on multi-chemical class fingerprinting. <i>Journal of Separation Science</i> , 2009, 32, 2892-2902.	1.3	10
86	Redox mediators and irradiation improve fenton degradation of acesulfame. <i>Chemosphere</i> , 2019, 217, 374-382.	4.2	10
87	Development of a LC-MS/MS method for the determination of antrodin B and antrodin C from <i>Antrodia camphorata</i> extract in rat plasma for pharmacokinetic study. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2010, 53, 781-784.	1.4	8
88	Measurement of yunaconitine and crassicauline A in small-volume blood serum samples by LC-MS/MS: Tracing of aconite poisoning in clinical diagnosis. <i>Talanta</i> , 2012, 97, 491-498.	2.9	8
89	Current trends in atomic mass spectrometry for the speciation and imaging of metal-based nanomaterials. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 2127-2139.	1.6	8
90	Therapeutic drug monitoring using LA-ICP-MS: Initial studies with metalldrugs in mouse whiskers. <i>Microchemical Journal</i> , 2016, 127, 94-101.	2.3	6

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91	Comparative physicochemical properties and toxicity of organic UV filters and their photocatalytic transformation products. <i>Environmental Pollution</i> , 2021, 286, 117551.	3.7	6
92	Organic UV filters mixture exposure and childhood adiposity: A prospective follow-up study in China. <i>Environment International</i> , 2022, 158, 106912.	4.8	6
93	Study of the cytotoxicity of reactive dyeing effluent treated by Fenton oxidation. <i>Coloration Technology</i> , 2013, 129, 398-402.	0.7	5
94	Synthesis, Structural Characterization, Electrochemistry, and Reactivities of Heptaosmium Carbonyl Clusters Bearing Thioxane Ligands – Crystal and Molecular Structures of		