

Kelvin Sze-Yin Leung

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98
papers

2,636
citations

29
h-index

45
g-index

99
ext. papers

3,058
ext. citations

5.7
avg, IF

5.41
L-index

#	Paper	IF	Citations
98	Development of high-performance liquid chromatographic fingerprints for distinguishing Chinese Angelica from related umbelliferae herbs. <i>Journal of Chromatography A</i> , 2005 , 1073, 383-92	4.5	158
97	Evaluating the environmental impact of artificial sweeteners: a study of their distributions, photodegradation and toxicities. <i>Water Research</i> , 2014 , 52, 260-74	12.5	103
96	Quantification of zeaxanthin dipalmitate and total carotenoids in Lycium fruits (Fructus Lycii). <i>Plant Foods for Human Nutrition</i> , 2005 , 60, 161-4	3.9	103
95	Authentication is fundamental for standardization of Chinese medicines. <i>Planta Medica</i> , 2006 , 72, 865-74	3.1	92
94	Assay of free ferulic acid and total ferulic acid for quality assessment of Angelica sinensis. <i>Journal of Chromatography A</i> , 2005 , 1068, 209-19	4.5	70
93	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	10.2	67
92	Toxicity assessment of nine types of decoction pieces from the daughter root of Aconitum carmichaeli (Fuzi) based on the chemical analysis of their diester diterpenoid alkaloids. <i>Planta Medica</i> , 2010 , 76, 825-30	3.1	65
91	Qualitative and quantitative analyses of nucleosides and nucleobases in Ganoderma spp. by HPLC-DAD-MS. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007 , 44, 807-11	3.5	64
90	Simultaneous determination of naphthoquinone derivatives in Boraginaceae herbs by high-performance liquid chromatography. <i>Analytica Chimica Acta</i> , 2006 , 577, 26-31	6.6	61
89	Antitumor activity of diethynylfluorene derivatives of gold(I). <i>Bioorganic and Medicinal Chemistry</i> , 2009 , 17, 7872-7	3.4	56
88	Identification and determination of the major constituents in traditional Chinese medicinal plant Polygonum multiflorum Thunb by HPLC coupled with PAD and ESI/MS. <i>Phytochemical Analysis</i> , 2007 , 18, 181-7	3.4	56
87	Selective recognition of arsenic by tailoring ion-imprinted polymer for ICP-MS quantification. <i>Talanta</i> , 2012 , 89, 162-8	6.2	54
86	LC-MS/MS in the routine clinical laboratory: has its time come?. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 2289-301	4.4	52
85	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	6.6	48
84	Photocatalytic transformation of acesulfame: Transformation products identification and embryotoxicity study. <i>Water Research</i> , 2016 , 89, 68-75	12.5	47
83	Simultaneous qualitative and quantitative analyses of the major constituents in the rhizome of Ligusticum Chuanxiong using HPLC-DAD-MS. <i>Chemical and Pharmaceutical Bulletin</i> , 2006 , 54, 255-9	1.9	47
82	Analytical challenges: determination of tetrodotoxin in human urine and plasma by LC-MS/MS. <i>Marine Drugs</i> , 2011 , 9, 2291-303	6	46

81	Systematic evaluation of organochlorine pesticide residues in Chinese materia medica. <i>Phytotherapy Research</i> , 2005 , 19, 514-8	6.7	46
80	Quality assessment of Rhizoma et Radix Notopterygii by HPTLC and HPLC fingerprinting and HPLC quantitative analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007 , 44, 812-7	3.5	45
79	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	3.4	45
78	Strategies to overcome spectral interference in ICP-MS detection. <i>Journal of Analytical Atomic Spectrometry</i> , 2016 , 31, 1078-1088	3.7	44
77	Degradation of tetracycline and sulfadiazine during continuous thermophilic composting of pig manure and sawdust. <i>Environmental Technology (United Kingdom)</i> , 2013 , 34, 2433-41	2.6	41
76	Transformation of acesulfame in chlorination: Kinetics study, identification of byproducts, and toxicity assessment. <i>Water Research</i> , 2017 , 117, 157-166	12.5	39
75	Comparative analysis of Ligusticum chuanxiong and related umbelliferous medicinal plants by high performance liquid chromatography-electrospray ionization mass spectrometry. <i>Planta Medica</i> , 2007 , 73, 392-8	3.1	34
74	Application of atmospheric pressure chemical ionisation mass spectrometry in the identification and differentiation of Panax species. <i>Phytochemical Analysis</i> , 2007 , 18, 146-50	3.4	31
73	Forensic analysis of laser printed ink by X-ray fluorescence and laser-excited plume fluorescence. <i>Analytical Chemistry</i> , 2013 , 85, 4311-5	7.8	30
72	Identification and comparative determination of senkyunolide A in traditional Chinese medicinal plants Ligusticum chuanxiong and Angelica sinensis by HPLC coupled with DAD and ESI-MS. <i>Chemical and Pharmaceutical Bulletin</i> , 2005 , 53, 1480-3	1.9	30
71	Review of biological and pharmacological activities of the endemic Taiwanese bitter medicinal mushroom, Antrodia camphorata (M. Zang et C. H. Su) Sh. H. Wu et al. (higher Basidiomycetes). <i>International Journal of Medicinal Mushrooms</i> , 2012 , 14, 241-56	1.3	30
70	Quantification of ligustilides in the roots of Angelica sinensis and related umbelliferous medicinal plants by high-performance liquid chromatography and liquid chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2004 , 1046, 101-7	4.5	30
69	CODEX-compliant eleven organophosphorus pesticides screening in multiple commodities using headspace-solid phase microextraction-gas chromatography-mass spectrometry. <i>Food Chemistry</i> , 2013 , 136, 710-7	8.5	29
68	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	12.9	29
67	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, 1030-6	6.2	29
66	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	13	29
65	Distinguishing the medicinal herb Oldenlandia diffusa from similar species of the same genus using fluorescence microscopy. <i>Microscopy Research and Technique</i> , 2006 , 69, 277-82	2.8	28
64	Determination of patchoulic alcohol in Herba Pogostemonis by GC-MS-MS. <i>Chemical and Pharmaceutical Bulletin</i> , 2005 , 53, 856-60	1.9	28

63	Risks of organic UV filters: a review of environmental and human health concern studies. <i>Science of the Total Environment</i> , 2021 , 755, 142486	10.2	27
62	Influence of livestock activities on residue antibiotic levels of rivers in Hong Kong. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 9058-9066	5.1	25
61	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	3.7	25
60	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, 783-90	4.4	25
59	An indirubin derivative, E804, exhibits potent angiostatic activity. <i>Biochemical Pharmacology</i> , 2012 , 83, 598-607	6	24
58	Ionic-liquid-based dispersive liquid-liquid microextraction for high-throughput multiple food contaminant screening. <i>Journal of Separation Science</i> , 2013 , 36, 3791-8	3.4	23
57	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>Phytotherapy Research</i> , 2009 , 80, 468-74	3.2	23
56	Joint Effects of Multiple UV Filters on Zebrafish Embryo Development. <i>Environmental Science & Technology</i> , 2018 , 52, 9460-9467	10.3	22
55	Comparative study on the aristolochic acid I content of <i>Herba Asari</i> for safe use. <i>Phytomedicine</i> , 2008 , 15, 741-8	6.5	22
54	Establishment of HPLC-DAD-MS fingerprint of fresh <i>Houttuynia cordata</i> . <i>Chemical and Pharmaceutical Bulletin</i> , 2005 , 53, 1604-9	1.9	22
53	Establishment of GC-MS fingerprint of fresh <i>Houttuynia cordata</i> . <i>Chemical and Pharmaceutical Bulletin</i> , 2005 , 53, 1484-9	1.9	22
52	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	12.9	21
51	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, 2160-4	4.5	21
50	Sorption and desorption of organic UV filters onto microplastics in single and multi-solute systems. <i>Environmental Pollution</i> , 2019 , 254, 113066	9.3	20
49	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, 9881-8	7.8	20
48	Differentiation of rhizoma et radix <i>Polygoni cuspidati</i> from closely related herbs by HPLC fingerprinting. <i>Chemical and Pharmaceutical Bulletin</i> , 2006 , 54, 1179-86	1.9	20
47	Current evidence for the hepatoprotective activities of the medicinal mushroom <i>Antrodia cinnamomea</i> . <i>Chinese Medicine</i> , 2013 , 8, 21	4.7	19
46	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	3.4	19

45	Environmental behavior of 12 UV filters and photocatalytic profile of ethyl-4-aminobenzoate. <i>Journal of Hazardous Materials</i> , 2017 , 337, 115-125	12.8	18
44	Removing acesulfame with the peroxone process: Transformation products, pathways and toxicity. <i>Chemosphere</i> , 2019 , 221, 647-655	8.4	18
43	Effects of Weathering on the Sorption Behavior and Toxicity of Polystyrene Microplastics in Multi-solute Systems. <i>Water Research</i> , 2020 , 187, 116419	12.5	18
42	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	3.2	17
41	Preliminary occurrence studies of antibiotic residues in Hong Kong and Pearl River Delta. <i>Environmental Monitoring and Assessment</i> , 2013 , 185, 745-54	3.1	17
40	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, 393-8	5	17
39	Optimization and validation of a chromatographic method for the simultaneous quantification of six bioactive compounds in Rhizoma et Radix <i>Polygoni Cuspidati</i> . <i>Journal of Pharmacy and Pharmacology</i> , 2008 , 60, 107-13	4.8	17
38	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, 1373-81	4.4	16
37	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	1.9	16
36	The mechanism of ArF laser-induced fluorescence of dense plume matter. <i>Journal of Analytical Atomic Spectrometry</i> , 2016 , 31, 2363-2374	3.7	16
35	Determination of iridoid glucosides for quality assessment of <i>Herba Oldenlandiae</i> by high-performance liquid chromatography. <i>Chemical and Pharmaceutical Bulletin</i> , 2006 , 54, 1131-7	1.9	15
34	Elemental Analysis of Chinese Black Inks on Xuan Paper by ArF Laser-Excited Plume Fluorescence. <i>Analytical Chemistry</i> , 2016 , 88, 10971-10978	7.8	14
33	Simultaneous determination of seven elemental species in estuarine waters by LC-ICP-DRC-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2010 , 25, 880	3.7	14
32	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	3.7	13
31	Improved chromatographic fingerprints for facile differentiation of two <i>Ganoderma</i> spp. <i>Biomedical Chromatography</i> , 2009 , 23, 280-8	1.7	13
30	Harmonization of monographic standards is needed to ensure the quality of Chinese medicinal materials. <i>Chinese Medicine</i> , 2009 , 4, 18	4.7	13
29	The evaluation on embryotoxicity of <i>Dipsaci Radix</i> with mice and embryonic stem cells. <i>Journal of Ethnopharmacology</i> , 2014 , 151, 114-22	5	12
28	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	6.2	12

27	Determination of plasma cholesterol sulfate by LC-APCI-MS/MS in the context of pediatric autism. <i>Talanta</i> , 2013 , 116, 115-21	6.2	12
26	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	4.7	12
25	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	6.6	11
24	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	3.7	10
23	Redox mediators and irradiation improve fenton degradation of acesulfame. <i>Chemosphere</i> , 2019 , 217, 374-382	8.4	9
22	Integration of sub-organ quantitative imaging LA-ICP-MS and fractionation reveals differences in translocation and transformation of CeO and Ce in mice. <i>Analytica Chimica Acta</i> , 2019 , 1082, 18-29	6.6	7
21	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	3.7	7
20	Improved quality assessment of proprietary Chinese medicines based on multi-chemical class fingerprinting. <i>Journal of Separation Science</i> , 2009 , 32, 2892-902	3.4	7
19	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, 781-4	3.5	7
18	Organic UV filter exposure and pubertal development: A prospective follow-up study of urban Chinese adolescents. <i>Environment International</i> , 2020 , 143, 105961	12.9	7
17	Degradation of acesulfame in UV/monochloramine process: Kinetics, transformation pathways and toxicity assessment. <i>Journal of Hazardous Materials</i> , 2021 , 403, 123935	12.8	7
16	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	10.2	6
15	Therapeutic drug monitoring using LA-ICP-MS: Initial studies with metallodrugs in mouse whiskers. <i>Microchemical Journal</i> , 2016 , 127, 94-101	4.8	6
14	Transformations of organic micropollutants undergoing permanganate/bisulfite treatment: Kinetics, pathways and toxicity. <i>Chemosphere</i> , 2019 , 237, 124524	8.4	6
13	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, 491-8	6.2	6
12	Study of the cytotoxicity of reactive dyeing effluent treated by Fenton oxidation. <i>Coloration Technology</i> , 2013 , 129, 398-402	2	5
11	The crucial role of heavy metals on the interaction of engineered nanoparticles with polystyrene microplastics. <i>Water Research</i> , 2021 , 201, 117317	12.5	5
10	Synthesis, Structural Characterization, Electrochemistry, and Reactivities of Heptaosmium Carbonyl Clusters Bearing Thioxane Ligands [Crystal and Molecular Structures of $[\text{Os}_7(\text{CO})_{16}\{\text{E}(\text{CH}_2)_2\text{OCH}_2\text{CH}_2\}_2]$, $[\text{Os}_7(\text{CO})_{17}\{\text{E}(\text{CH}_2)_2\text{OCH}_2\text{CH}_2\}\{\text{S}(\text{CH}_2)_2\text{OCH}_2\text{CH}_2\}]$, and $[\text{Os}_7(\text{CO})_{18}\{\text{E}(\text{CH}_2)_2\text{OCH}_2\text{CH}_2\}]$. <i>European Journal of Inorganic Chemistry</i> , 1999 , 1999, 1757-1763	2.3	4

9	Current applications and future perspectives on elemental analysis of non-invasive samples for human biomonitoring. <i>Talanta</i> , 2021 , 234, 122683	6.2	4
8	Angiosuppressive properties of marine-derived compounds-a mini review. <i>Environmental Science and Pollution Research</i> , 2017 , 24, 8990-9001	5.1	3
7	Dual-elemental analysis of single particles using quadrupole-based inductively coupled plasma-mass spectrometry.. <i>Analytica Chimica Acta</i> , 2022 , 1192, 339389	6.6	3
6	Acesulfame aerobic biodegradation by enriched consortia and <i>Chelatococcus</i> spp.: Kinetics, transformation products, and genomic characterization. <i>Water Research</i> , 2021 , 202, 117454	12.5	3
5	Measurement uncertainty for total ash and acid-insoluble ash determination of Chinese materia medica. <i>Accreditation and Quality Assurance</i> , 2005 , 10, 289-294	0.7	2
4	Improved chromatographic assessment of Chinese medicinal products by multi-chemical classes analysis. <i>Planta Medica</i> , 2009 , 75, 1171-9	3.1	1
3	An integrated ICP-MS-based analytical approach to fractionate and characterize ionic and nanoparticulate Ce species.. <i>Analytical and Bioanalytical Chemistry</i> , 2022 , 1	4.4	1
2	Organic UV filters mixture exposure and childhood adiposity: A prospective follow-up study in China. <i>Environment International</i> , 2021 , 158, 106912	12.9	1
1	Comparative physicochemical properties and toxicity of organic UV filters and their photocatalytic transformation products. <i>Environmental Pollution</i> , 2021 , 286, 117551	9.3	1