

Pao-Chi Liao

List of Publications by Year in descending order

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95
papers

2,359
citations

201674

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265206

42
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96
all docs

96
docs citations

96
times ranked

3453
citing authors

#	ARTICLE	IF	CITATIONS
1	LCMD: Lung Cancer Metabolome Database. Computational and Structural Biotechnology Journal, 2022, 20, 65-78.	4.1	8
2	Post-Deconvolution MS/MS Spectra Extraction with Data-Independent Acquisition for Comprehensive Profiling of Urinary Glucuronide-Conjugated Metabolome. Analytical Chemistry, 2022, 94, 2740-2748.	6.5	5
3	Exploration of long-term exposure markers for phthalate esters in human hair using liquid chromatography-tandem mass spectrometry. Analytica Chimica Acta, 2022, 1200, 339610.	5.4	12
4	Extraction strategies for tackling complete hair metabolome using LC-HRMS-based analysis. Talanta, 2021, 223, 121708.	5.5	14
5	Discovery of Spoilage Markers for Chicken Eggs Using Liquid Chromatography-High Resolution Mass Spectrometry-Based Untargeted and Targeted Foodomics. Journal of Agricultural and Food Chemistry, 2021, 69, 4331-4341.	5.2	18
6	Visualization of statistically processed LC-MS-based metabolomics data for identifying significant features in a multiple-group comparison. Chemometrics and Intelligent Laboratory Systems, 2021, 210, 104271.	3.5	10
7	Untargeted foodomics strategy using high-resolution mass spectrometry reveals potential indicators for fish freshness. Analytica Chimica Acta, 2020, 1127, 98-105.	5.4	33
8	Comparative UHPLC-Q-Orbitrap HRMS-Based Metabolomics Unveils Biochemical Changes of Black Garlic during Aging Process. Journal of Agricultural and Food Chemistry, 2020, 68, 14049-14058.	5.2	15
9	Assessment of Serological Early Biomarker Candidates for Lung Adenocarcinoma by using Multiple Reaction Monitoring-Mass Spectrometry. Proteomics - Clinical Applications, 2020, 14, e1900095.	1.6	7
10	AKT-mediated phosphorylation enhances protein stability and transcription activity of ZNF322A to promote lung cancer progression. Oncogene, 2019, 38, 6723-6736.	5.9	21
11	Assessing the Similarity between Random Copolymer Drug Glatiramer Acetate by Using LC-MS Data Coupling with Hypothesis Testing. Analytical Chemistry, 2019, 91, 14281-14289.	6.5	2
12	Using a high-resolution mass spectrometry-based metabolomics strategy for comprehensively screening and identifying biomarkers of phthalate exposure: Method development and application. Environment International, 2019, 128, 261-270.	10.0	11
13	Exposure marker discovery of di-(2-propylheptyl) phthalate using ultra-performance liquid chromatography-mass spectrometry and a rat model. Journal of Food and Drug Analysis, 2019, 27, 585-594.	1.9	2
14	Identification of potential urinary exposure markers for the toxicant diisononyl phthalate in rubber worker urine specimens by high-resolution mass spectrometry-based metabolomics. Urine, 2019, 1, 8-16.	4.0	0
15	Development and validation of an analytical procedure for quantitation of surfactants in dishwashing detergents using ultra-performance liquid chromatography-mass spectrometry. Talanta, 2019, 194, 778-785.	5.5	13
16	Profiling and comparison of toxicant metabolites in hair and urine using a mass spectrometry-based metabolomic data processing method. Analytica Chimica Acta, 2019, 1052, 84-95.	5.4	14
17	Exposure marker discovery of di(isononyl)cyclohexane-1,2-dicarboxylate using two mass spectrometry-based metabolite profiling data processing methods. Environmental Science and Pollution Research, 2018, 25, 11999-12011.	5.3	8
18	Identification of urinary biomarkers of exposure to di-(2-propylheptyl) phthalate using high-resolution mass spectrometry and two data-screening approaches. Chemosphere, 2018, 193, 170-177.	8.2	11

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19	Secretomic Analysis of Host-Pathogen Interactions Reveals That Elongation Factor-Tu Is a Potential Adherence Factor of <i>Helicobacter pylori</i> during Pathogenesis. <i>Journal of Proteome Research</i> , 2017, 16, 264-273.	3.7	15
20	Exposure Marker Discovery of Phthalates Using Mass Spectrometry. <i>Mass Spectrometry</i> , 2017, 6, S0062-S0062.	0.6	7
21	Identification of Phosphorylated Cyclin-Dependent Kinase 1 Associated with Colorectal Cancer Survival Using Label-Free Quantitative Analyses. <i>PLoS ONE</i> , 2016, 11, e0158844.	2.5	9
22	Urinary exposure marker discovery for toxicants using ultra-high pressure liquid chromatography coupled with Orbitrap high resolution mass spectrometry and three untargeted metabolomics approaches. <i>Analytica Chimica Acta</i> , 2016, 939, 73-83.	5.4	16
23	The potential use of diisononyl phthalate metabolites hair as biomarkers to assess long-term exposure demonstrated by a rat model. <i>Chemosphere</i> , 2015, 118, 219-228.	8.2	20
24	Down-regulation of TIMP-1 inhibits cell migration, invasion, and metastatic colonization in lung adenocarcinoma. <i>Tumor Biology</i> , 2015, 36, 3957-3967.	1.8	15
25	Qualification and Verification of Serological Biomarker Candidates for Lung Adenocarcinoma by Targeted Mass Spectrometry. <i>Journal of Proteome Research</i> , 2015, 14, 3039-3050.	3.7	18
26	Activation of the Ubiquitin Proteasome Pathway by Silk Fibroin Modified Chitosan Nanoparticles in Hepatic Cancer Cells. <i>International Journal of Molecular Sciences</i> , 2015, 16, 1657-1676.	4.1	10
27	Optimization of titanium dioxide and immunoaffinity-based enrichment procedures for tyrosine phosphopeptide using matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 1343-1356.	3.7	12
28	Phylogenetic analysis of the canine distemper virus hemagglutinin gene. <i>BMC Veterinary Research</i> , 2015, 11, 164.	1.9	57
29	Prenatal exposure to phthalate ester and pubertal development in a birth cohort in central Taiwan: A 12-year follow-up study. <i>Environmental Research</i> , 2015, 136, 324-330.	7.5	34
30	Small GTPase Rab37 targets tissue inhibitor of metalloproteinase 1 for exocytosis and thus suppresses tumour metastasis. <i>Nature Communications</i> , 2014, 5, 4804.	12.8	48
31	Label-free proteomic analysis of environmental acidification-influenced <i>Streptococcus pyogenes</i> secretome reveals a novel acid-induced protein histidine triad protein A (HtpA) involved in necrotizing fasciitis. <i>Journal of Proteomics</i> , 2014, 109, 90-103.	2.4	15
32	Risk for estrogen-dependent diseases in relation to phthalate exposure and polymorphisms of CYP17A1 and estrogen receptor genes. <i>Environmental Science and Pollution Research</i> , 2014, 21, 13964-13973.	5.3	47
33	Sex Steroid Hormone Levels and Reproductive Development of Eight-Year-Old Children following In Utero and Environmental Exposure to Phthalates. <i>PLoS ONE</i> , 2014, 9, e102788.	2.5	23
34	Hepatic stellate cells secrete type I collagen to trigger epithelial mesenchymal transition of hepatoma cells. <i>American Journal of Cancer Research</i> , 2014, 4, 751-63.	1.4	23
35	Secretome analysis using a hollow fiber culture system for cancer biomarker discovery. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2013, 1834, 2285-2292.	2.3	7
36	A comparative proteomics analysis of peritoneal dialysate before and after the occurrence of peritonitis episode by mass spectrometry. <i>Clinica Chimica Acta</i> , 2013, 420, 34-44.	1.1	19

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37	Background levels of Persistent Organic Pollutants in humans from Taiwan: Perfluorooctane sulfonate and perfluorooctanoic acid. <i>Chemosphere</i> , 2013, 93, 532-537.	8.2	24
38	Synthesis and characterization of alkyne functionalized nanomaterial for the enrichment of phosphopeptides. <i>Materials Letters</i> , 2013, 92, 433-436.	2.6	2
39	Comparative Proteomic Analysis of Peritoneal Dialysate from Chronic Glomerulonephritis Patients. <i>BioMed Research International</i> , 2013, 2013, 1-10.	1.9	7
40	Secretomic Analysis Identifies Alpha-1 Antitrypsin (A1AT) as a Required Protein in Cancer Cell Migration, Invasion, and Pericellular Fibronectin Assembly for Facilitating Lung Colonization of Lung Adenocarcinoma Cells. <i>Molecular and Cellular Proteomics</i> , 2012, 11, 1320-1339.	3.8	66
41	Coexposure of Dioxin-like Polychlorinated Biphenyls and Polychlorinated Dibenzo- <i>p</i> -dioxins and Dibenzofurans in Free-Range Hens and Implications Derived from Congener Profile Analysis. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 1963-1972.	5.2	16
42	Impact of uremic environment on peritoneum: A proteomic view. <i>Journal of Proteomics</i> , 2012, 75, 2053-2063.	2.4	13
43	Quantitative Secretome Analysis Reveals that COL6A1 is a Metastasis-Associated Protein Using Stacking Gel-Aided Purification Combined with iTRAQ Labeling. <i>Journal of Proteome Research</i> , 2011, 10, 1110-1125.	3.7	63
44	Identification of Di-isononyl Phthalate Metabolites for Exposure Marker Discovery Using In Vitro/In Vivo Metabolism and Signal Mining Strategy with LC-MS Data. <i>Analytical Chemistry</i> , 2011, 83, 8725-8731.	6.5	16
45	Differential Secretomics of <i>Streptococcus pyogenes</i> Reveals a Novel Peroxide Regulator (PerR)-regulated Extracellular Virulence Factor Mitogen Factor3 (MF3). <i>Molecular and Cellular Proteomics</i> , 2011, 10, M110.007013.	3.8	19
46	Antibacterial activity of poloxamer-modified montmorillonite clay against <i>E. coli</i> . <i>Materials Letters</i> , 2011, 65, 3092-3094.	2.6	13
47	Associations between maternal phthalate exposure and cord sex hormones in human infants. <i>Chemosphere</i> , 2011, 83, 1192-1199.	8.2	110
48	An occupational exposure assessment of polychlorinated dibenzo- <i>p</i> -dioxin and dibenzofurans in firefighters. <i>Chemosphere</i> , 2011, 83, 1353-1359.	8.2	20
49	Protein tyrosine phosphatase non-receptor type 14 is a novel sperm-motility biomarker. <i>Journal of Assisted Reproduction and Genetics</i> , 2011, 28, 851-861.	2.5	14
50	Collection of in vivo-like liver cell secretome with alternative sample enrichment method using a hollow fiber bioreactor culture system combined with tangential flow filtration for secretomics analysis. <i>Analytica Chimica Acta</i> , 2011, 684, 81-88.	5.4	18
51	Urinary protein profiling by liquid chromatography/tandem mass spectrometry: ADAM28 is overexpressed in bladder transitional cell carcinoma. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 2851-2862.	1.5	21
52	Age-dependent congener profiles of polychlorinated dibenzo- <i>p</i> -dioxins and dibenzofurans in the general population of Taiwan. <i>Chemosphere</i> , 2010, 81, 469-477.	8.2	6
53	A statistical procedure to selectively detect metabolite signals in LC-MS data based on using variable isotope ratios. <i>Journal of the American Society for Mass Spectrometry</i> , 2010, 21, 232-241.	2.8	21
54	A label-free differential proteomic analysis of mouse bronchoalveolar lavage fluid exposed to ultrafine carbon black. <i>Analytica Chimica Acta</i> , 2010, 673, 160-166.	5.4	8

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55	Differential proteomic characterization between normal peritoneal fluid and diabetic peritoneal dialysate. <i>Nephrology Dialysis Transplantation</i> , 2010, 25, 1955-1963.	0.7	32
56	Association between phthalate exposure and glutathione S-transferase M1 polymorphism in adenomyosis, leiomyoma and endometriosis. <i>Human Reproduction</i> , 2010, 25, 986-994.	0.9	126
57	Identification of Tyrosine-Phosphorylated Proteins Associated with Lung Cancer Metastasis using Label-Free Quantitative Analyses. <i>Journal of Proteome Research</i> , 2010, 9, 4102-4112.	3.7	15
58	Annexin A2 on lung epithelial cell surface is recognized by severe acute respiratory syndrome-associated coronavirus spike domain 2 antibodies. <i>Molecular Immunology</i> , 2010, 47, 1000-1009.	2.2	35
59	Elevated PCDD/F Levels and Distinctive PCDD/F Congener Profiles in Free Range Eggs. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 7708-7714.	5.2	35
60	Novel virus-associated proteins encoded by UL112-113 of human cytomegalovirus. <i>Journal of General Virology</i> , 2009, 90, 2840-2848.	2.9	6
61	Assessing the binding selectivity of molecularly imprinted polymer artificial antibodies by mass spectrometry-based profiling system. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 91A, 597-604.	4.0	16
62	The suppression of MAD1 by AKT-mediated phosphorylation activates MAD1 target genes transcription. <i>Molecular Carcinogenesis</i> , 2009, 48, 1048-1058.	2.7	19
63	Discovery of Retinoblastoma-Associated Binding Protein 46 as a Novel Prognostic Marker for Distant Metastasis in Nonsmall Cell Lung Cancer by Combined Analysis of Cancer Cell Secretome and Pleural Effusion Proteome. <i>Journal of Proteome Research</i> , 2009, 8, 4428-4440.	3.7	63
64	Combining Alkaline Phosphatase Treatment and Hybrid Linear Ion Trap/Orbitrap High Mass Accuracy Liquid Chromatography-Mass Spectrometry Data for the Efficient and Confident Identification of Protein Phosphorylation. <i>Analytical Chemistry</i> , 2009, 81, 7778-7787.	6.5	19
65	Evaluation of background persistent organic pollutant levels in human from Taiwan: Polychlorinated dibenzo-p-dioxins, dibenzofurans, and biphenyls. <i>Environment International</i> , 2009, 35, 33-42.	10.0	28
66	Proteomics Analysis of Nasopharyngeal Carcinoma Cell Secretome Using a Hollow Fiber Culture System and Mass Spectrometry. <i>Journal of Proteome Research</i> , 2009, 8, 380-389.	3.7	32
67	Proteomic analysis of pericardial effusion: Characteristics of tuberculosis-related proteins. <i>Proteomics - Clinical Applications</i> , 2008, 2, 458-466.	1.6	8
68	Proteomic analysis of proteins associated with tt-DDE induced toxicity in BEAS-2B cells. <i>Biochemical and Biophysical Research Communications</i> , 2008, 376, 519-524.	2.1	7
69	Taiwan proteomics society: an organization affiliated with HUPO. <i>Molecular and Cellular Proteomics</i> , 2008, 7, 1584-5.	3.8	0
70	Investigation of effects attributed to spherical carbon nanomaterials in proteomic matrix-assisted laser desorption ionization-time of flight mass spectrometer. , 2007, , .		0
71	Epidermal Growth Factor Increases the Interaction between Nucleolin and Heterogeneous Nuclear Ribonucleoprotein K/Poly(C) Binding Protein 1 Complex to Regulate the Gastrin mRNA Turnover. <i>Molecular Biology of the Cell</i> , 2007, 18, 5004-5013.	2.1	46
72	A comparison of PCDD/PCDFs exposure in infants via formula milk or breast milk feeding. <i>Chemosphere</i> , 2007, 66, 311-319.	8.2	37

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73	Mining Phosphopeptide Signals in Liquid Chromatography-Mass Spectrometry Data for Protein Phosphorylation Analysis. <i>Journal of Proteome Research</i> , 2007, 6, 1812-1821.	3.7	25
74	Evaluation of electrospray ionization and atmospheric pressure chemical ionization for simultaneous detection of estrone and its metabolites using high-performance liquid chromatography/tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007, 860, 49-56.	2.3	15
75	Proteomics analysis of plasma for potential biomarkers in the diagnosis of Alzheimer's disease. <i>Proteomics - Clinical Applications</i> , 2007, 1, 506-512.	1.6	45
76	Proteomics analysis of serous fluids and effusions: Pleural, pericardial, and peritoneal. <i>Proteomics - Clinical Applications</i> , 2007, 1, 834-844.	1.6	11
77	Identification of human hepatocellular carcinoma-related proteins by proteomic approaches. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 388, 637-643.	3.7	24
78	Human PCDD/PCDF levels near a pentachlorophenol contamination site in Tainan, Taiwan. <i>Chemosphere</i> , 2006, 65, 436-448.	8.2	39
79	Proteomics analysis revealed changes in rat bronchoalveolar lavage fluid proteins associated with oil mist exposure. <i>Proteomics</i> , 2006, 6, 2236-2250.	2.2	21
80	Validation of an online dual-loop cleanup device with an electrospray ionization tandem mass spectrometry-based system for simultaneous quantitative analysis of urinary benzene exposure biomarkers trans,trans-muconic acid and S-phenylmercapturic acid. <i>Analytica Chimica Acta</i> , 2006, 555, 34-40.	5.4	15
81	Proteomic profiling of human urinary proteome using nano-high performance liquid chromatography/electrospray ionization tandem mass spectrometry. <i>Analytica Chimica Acta</i> , 2006, 579, 158-176.	5.4	25
82	Biochemistry examinations and health disorder evaluation of Taiwanese living near incinerators and with low serum PCDD/Fs levels. <i>Science of the Total Environment</i> , 2006, 366, 538-548.	8.0	31
83	Local proteins associated with methamphetamine-induced nigrostriatal dopaminergic neurotoxicity. <i>Journal of Neurochemistry</i> , 2005, 95, 160-168.	3.9	26
84	Profile of PCDD/F levels in serum of general Taiwanese between different gender, age and smoking status. <i>Science of the Total Environment</i> , 2005, 337, 31-43.	8.0	51
85	Proteomic analysis of human pleural effusion. <i>Proteomics</i> , 2005, 5, 1062-1074.	2.2	75
86	Hsp90 α Recruited by Sp1 Is Important for Transcription of 12(S)-Lipoxygenase in A431 Cells. <i>Journal of Biological Chemistry</i> , 2005, 280, 36283-36292.	3.4	24
87	Congener profiles of PCBs and PCDD/Fs in Yucheng victims fifteen years after exposure to toxic rice-bran oils and their implications for epidemiologic studies. <i>Chemosphere</i> , 2005, 61, 1231-1243.	8.2	30
88	Proteomic Profiling of Human Pleural Effusion Using Two-Dimensional Nano Liquid Chromatography Tandem Mass Spectrometry. <i>Journal of Proteome Research</i> , 2005, 4, 1274-1286.	3.7	72
89	Development and validation of an isotope-dilution electrospray ionization tandem mass spectrometry method with an on-line sample clean-up device for the quantitative analysis of the benzene exposure biomarker S-phenylmercapturic acid in human urine. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 1310-1316.	1.5	19
90	An electrospray ionization tandem mass spectrometry based system with an online dual-loop cleanup device for simultaneous quantitation of urinary benzene exposure biomarker trans,trans-muconic acid and S-phenylmercapturic acid. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 2743-2752.	1.5	14

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91	An Online Automatic Sample Cleanup System for the Quantitative Detection of the Benzene Exposure Biomarker S-Phenymercaptopuric Acid in Human Urine by Electrospray Ionization Tandem Mass Spectrometry. <i>Journal of Analytical Toxicology</i> , 2002, 26, 205-210.	2.8	26
92	Micro devices integrated with microchannels and electrospray nozzles using PDMS casting techniques. <i>Sensors and Actuators B: Chemical</i> , 2002, 86, 280-286.	7.8	55
93	Quantitative detection of N ⁷ -(2-hydroxyethyl)guanine adducts in DNA using high-performance liquid chromatography/electrospray ionization tandem mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2001, 36, 336-343.	1.6	13
94	A disposable poly(methylmethacrylate)-based microfluidic module for protein identification by nanoelectrospray ionization-tandem mass spectrometry. <i>Electrophoresis</i> , 2001, 22, 3972-3977.	2.4	47
95	Cell Cycle-Dependent Regulation of Human DNA Polymerase δ -Primase Activity by Phosphorylation. <i>Molecular and Cellular Biology</i> , 1999, 19, 646-656.	2.3	76