# Pao-Chi Liao

## List of Publications by Year
## in descending order

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|---|---|---|---|
| **95**<br>papers | **2,359**<br>citations | 201674<br>**27**<br>h-index | 265206<br>**42**<br>g-index |
| **96**<br>all docs | **96**<br>docs citations | **96**<br>times ranked | **3453**<br>citing authors |

| # | ARTICLE | IF | CITATIONS |
|---|---------|----|-----------|
| 1 | Association between phthalate exposure and glutathione S-transferase M1 polymorphism in adenomyosis, leiomyoma and endometriosis. Human Reproduction, 2010, 25, 986-994. | 0.9 | 126 |
| 2 | Associations between maternal phthalate exposure and cord sex hormones in human infants. Chemosphere, 2011, 83, 1192-1199. | 8.2 | 110 |
| 3 | Cell Cycle-Dependent Regulation of Human DNA Polymerase Î±-Primase Activity by Phosphorylation. Molecular and Cellular Biology, 1999, 19, 646-656. | 2.3 | 76 |
| 4 | Proteomic analysis of human pleural effusion. Proteomics, 2005, 5, 1062-1074. | 2.2 | 75 |
| 5 | Proteomic Profiling of Human Pleural Effusion Using Two-Dimensional Nano Liquid Chromatography Tandem Mass Spectrometry. Journal of Proteome Research, 2005, 4, 1274-1286. | 3.7 | 72 |
| 6 | 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. Molecular and Cellular Proteomics, 2012, 11, 1320-1339. | 3.8 | 66 |
| 7 | 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. Journal of Proteome Research, 2009, 8, 4428-4440. | 3.7 | 63 |
| 8 | Quantitative Secretome Analysis Reveals that COL6A1 is a Metastasis-Associated Protein Using Stacking Gel-Aided Purification Combined with iTRAQ Labeling. Journal of Proteome Research, 2011, 10, 1110-1125. | 3.7 | 63 |
| 9 | Phylodynamic analysis of the canine distemper virus hemagglutinin gene. BMC Veterinary Research, 2015, 11, 164. | 1.9 | 57 |
| 10 | Micro devices integrated with microchannels and electrospray nozzles using PDMS casting techniques. Sensors and Actuators B: Chemical, 2002, 86, 280-286. | 7.8 | 55 |
| 11 | Profile of PCDD/F levels in serum of general Taiwanese between different gender, age and smoking status. Science of the Total Environment, 2005, 337, 31-43. | 8.0 | 51 |
| 12 | Small GTPase Rab37 targets tissue inhibitor of metalloproteinase 1 for exocytosis and thus suppresses tumour metastasis. Nature Communications, 2014, 5, 4804. | 12.8 | 48 |
| 13 | A disposable poly(methylmethacrylate)-based microfluidic module for protein identification by nanoelectrospray ionization-tandem mass spectrometry. Electrophoresis, 2001, 22, 3972-3977. | 2.4 | 47 |
| 14 | Risk for estrogen-dependent diseases in relation to phthalate exposure and polymorphisms of CYP17A1 and estrogen receptor genes. Environmental Science and Pollution Research, 2014, 21, 13964-13973. | 5.3 | 47 |
| 15 | 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. Molecular Biology of the Cell, 2007, 18, 5004-5013. | 2.1 | 46 |
| 16 | Proteomics analysis of plasma for potential biomarkers in the diagnosis of Alzheimer's disease. Proteomics - Clinical Applications, 2007, 1, 506-512. | 1.6 | 45 |
| 17 | Human PCDD/PCDF levels near a pentachlorophenol contamination site in Tainan, Taiwan. Chemosphere, 2006, 65, 436-448. | 8.2 | 39 |
| 18 | A comparison of PCDD/PCDFs exposure in infants via formula milk or breast milk feeding. Chemosphere, 2007, 66, 311-319. | 8.2 | 37 |

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|---|---------|-----|-----------|
| 19 | Annexin A2 on lung epithelial cell surface is recognized by severe acute respiratory syndrome-associated coronavirus spike domain 2 antibodies. Molecular Immunology, 2010, 47, 1000-1009. | 2.2 | 35 |
| 20 | Elevated PCDD/F Levels and Distinctive PCDD/F Congener Profiles in Free Range Eggs. Journal of Agricultural and Food Chemistry, 2010, 58, 7708-7714. | 5.2 | 35 |
| 21 | Prenatal exposure to phthalate ester and pubertal development in a birth cohort in central Taiwan: A 12-year follow-up study. Environmental Research, 2015, 136, 324-330. | 7.5 | 34 |
| 22 | Untargeted foodomics strategy using high-resolution mass spectrometry reveals potential indicators for fish freshness. Analytica Chimica Acta, 2020, 1127, 98-105. | 5.4 | 33 |
| 23 | Proteomics Analysis of Nasopharyngeal Carcinoma Cell Secretome Using a Hollow Fiber Culture System and Mass Spectrometry. Journal of Proteome Research, 2009, 8, 380-389. | 3.7 | 32 |
| 24 | Differential proteomic characterization between normal peritoneal fluid and diabetic peritoneal dialysate. Nephrology Dialysis Transplantation, 2010, 25, 1955-1963. | 0.7 | 32 |
| 25 | Biochemistry examinations and health disorder evaluation of Taiwanese living near incinerators and with low serum PCDD/Fs levels. Science of the Total Environment, 2006, 366, 538-548. | 8.0 | 31 |
| 26 | 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. Chemosphere, 2005, 61, 1231-1243. | 8.2 | 30 |
| 27 | Evaluation of background persistent organic pollutant levels in human from Taiwan: Polychlorinated dibenzo-p-dioxins, dibenzofurans, and biphenyls. Environment International, 2009, 35, 33-42. | 10.0 | 28 |
| 28 | An Online Automatic Sample Cleanup System for the Quantitative Detection of the Benzene Exposure Biomarker S-Phenyimercapturic Acid in Human Urine by Electrospray Ionization Tandem Mass Spectrometry. Journal of Analytical Toxicology, 2002, 26, 205-210. | 2.8 | 26 |
| 29 | Local proteins associated with methamphetamine-induced nigrostriatal dopaminergic neurotoxicity. Journal of Neurochemistry, 2005, 95, 160-168. | 3.9 | 26 |
| 30 | Proteomic profiling of human urinary proteome using nano-high performance liquid chromatography/electrospray ionization tandem mass spectrometry. Analytica Chimica Acta, 2006, 579, 158-176. | 5.4 | 25 |
| 31 | Mining Phosphopeptide Signals in Liquid Chromatographyâˆ’Mass Spectrometry Data for Protein Phosphorylation Analysis. Journal of Proteome Research, 2007, 6, 1812-1821. | 3.7 | 25 |
| 32 | Hsp90Î± Recruited by Sp1 Is Important for Transcription of 12(S)-Lipoxygenase in A431 Cells. Journal of Biological Chemistry, 2005, 280, 36283-36292. | 3.4 | 24 |
| 33 | Identification of human hepatocellular carcinoma-related proteins by proteomic approaches. Analytical and Bioanalytical Chemistry, 2007, 388, 637-643. | 3.7 | 24 |
| 34 | Background levels of Persistent Organic Pollutants in humans from Taiwan: Perfluorooctane sulfonate and perfluorooctanoic acid. Chemosphere, 2013, 93, 532-537. | 8.2 | 24 |
| 35 | Sex Steroid Hormone Levels and Reproductive Development of Eight-Year-Old Children following In Utero and Environmental Exposure to Phthalates. PLoS ONE, 2014, 9, e102788. | 2.5 | 23 |
| 36 | Hepatic stellate cells secretes type I collagen to trigger epithelial mesenchymal transition of hepatoma cells. American Journal of Cancer Research, 2014, 4, 751-63. | 1.4 | 23 |

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|---|---------|-----|-----------|
| 37 | Proteomics analysis revealed changes in rat bronchoalveolar lavage fluid proteins associated with oil mist exposure. Proteomics, 2006, 6, 2236-2250. | 2.2 | 21 |
| 38 | A statistical procedure to selectively detect metabolite signals in LC-MS data based on using variable isotope ratios. Journal of the American Society for Mass Spectrometry, 2010, 21, 232-241. | 2.8 | 21 |
| 39 | Urinary protein profiling by liquid chromatography/tandem mass spectrometry: ADAM28 is overexpressed in bladder transitional cell carcinoma. Rapid Communications in Mass Spectrometry, 2011, 25, 2851-2862. | 1.5 | 21 |
| 40 | AKT-mediated phosphorylation enhances protein stability and transcription activity of ZNF322A to promote lung cancer progression. Oncogene, 2019, 38, 6723-6736. | 5.9 | 21 |
| 41 | An occupational exposure assessment of polychlorinated dibenzo-p-dioxin and dibenzofurans in firefighters. Chemosphere, 2011, 83, 1353-1359. | 8.2 | 20 |
| 42 | The potential use of diisononyl phthalate metabolites hair as biomarkers to assess long-term exposure demonstrated by a rat model. Chemosphere, 2015, 118, 219-228. | 8.2 | 20 |
| 43 | 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 biomarkerS-phenylmercapturic acid in human urine. Rapid Communications in Mass Spectrometry, 2004, 18, 1310-1316. | 1.5 | 19 |
| 44 | The suppression of MAD1 by AKTâ€mediated phosphorylation activates MAD1 target genes transcription. Molecular Carcinogenesis, 2009, 48, 1048-1058. | 2.7 | 19 |
| 45 | Combining Alkaline Phosphatase Treatment and Hybrid Linear Ion Trap/Orbitrap High Mass Accuracy Liquid Chromatographyâˆ'Mass Spectrometry Data for the Efficient and Confident Identification of Protein Phosphorylation. Analytical Chemistry, 2009, 81, 7778-7787. | 6.5 | 19 |
| 46 | Differential Secretomics of Streptococcus pyogenes Reveals a Novel Peroxide Regulator (PerR)-regulated Extracellular Virulence Factor Mitogen Factor3 (MF3). Molecular and Cellular Proteomics, 2011, 10, M110.007013. | 3.8 | 19 |
| 47 | A comparative proteomics analysis of peritoneal dialysate before and after the occurrence of peritonitis episode by mass spectrometry. Clinica Chimica Acta, 2013, 420, 34-44. | 1.1 | 19 |
| 48 | 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. Analytica Chimica Acta, 2011, 684, 81-88. | 5.4 | 18 |
| 49 | Qualification and Verification of Serological Biomarker Candidates for Lung Adenocarcinoma by Targeted Mass Spectrometry. Journal of Proteome Research, 2015, 14, 3039-3050. | 3.7 | 18 |
| 50 | 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 |
| 51 | Assessing the binding selectivity of molecularly imprinted polymer artificial antibodies by mass spectrometryâ€based profiling system. Journal of Biomedical Materials Research - Part A, 2009, 91A, 597-604. | 4.0 | 16 |
| 52 | Identification of Di-isononyl Phthalate Metabolites for Exposure Marker Discovery Using In Vitro/In Vivo Metabolism and Signal Mining Strategy with LC-MS Data. Analytical Chemistry, 2011, 83, 8725-8731. | 6.5 | 16 |
| 53 | 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. Journal of Agricultural and Food Chemistry, 2012, 60, 1963-1972. | 5.2 | 16 |
| 54 | Urinary exposure marker discovery for toxicants using ultra-high pressure liquid chromatography coupled with Orbitrap high resolution mass spectrometry and three untargeted metabolomics approaches. Analytica Chimica Acta, 2016, 939, 73-83. | 5.4 | 16 |

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| 55 | 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. Analytica Chimica Acta, 2006, 555, 34-40. | 5.4 | 15 |
| 56 | 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. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2007, 860, 49-56. | 2.3 | 15 |
| 57 | Identification of Tyrosine-Phosphorylated Proteins Associated with Lung Cancer Metastasis using Label-Free Quantitative Analyses. Journal of Proteome Research, 2010, 9, 4102-4112. | 3.7 | 15 |
| 58 | Label-free proteomic analysis of environmental acidification-influenced Streptococcus pyogenes secretome reveals a novel acid-induced protein histidine triad protein A (HtpA) involved in necrotizing fasciitis. Journal of Proteomics, 2014, 109, 90-103. | 2.4 | 15 |
| 59 | Down-regulation of TIMP-1 inhibits cell migration, invasion, and metastatic colonization in lung adenocarcinoma. Tumor Biology, 2015, 36, 3957-3967. | 1.8 | 15 |
| 60 | Secretomic Analysis of Host–Pathogen Interactions Reveals That Elongation Factor-Tu Is a Potential Adherence Factor of <i>Helicobacter pylori</i> during Pathogenesis. Journal of Proteome Research, 2017, 16, 264-273. | 3.7 | 15 |
| 61 | 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 |
| 62 | An electrospray ionization tandem mass spectrometry based system with an online dual-loop cleanup device for simultaneous quantitation of urinary benzene exposure biomarkerstrans,trans-muconic acid andS-phenylmercapturic acid. Rapid Communications in Mass Spectrometry, 2004, 18, 2743-2752. | 1.5 | 14 |
| 63 | Protein tyrosine phosphatase non-receptor type 14 is a novel sperm-motility biomarker. Journal of Assisted Reproduction and Genetics, 2011, 28, 851-861. | 2.5 | 14 |
| 64 | 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 |
| 65 | Extraction strategies for tackling complete hair metabolome using LC-HRMS-based analysis. Talanta, 2021, 223, 121708. | 5.5 | 14 |
| 66 | Quantitative detection ofN7-(2-hydroxyethyl)guanine adducts in DNA using high-performance liquid chromatography/electrospray ionization tandem mass spectrometry. Journal of Mass Spectrometry, 2001, 36, 336-343. | 1.6 | 13 |
| 67 | Antibacterial activity of poloxamer-modified montmorillonite clay against E. coli. Materials Letters, 2011, 65, 3092-3094. | 2.6 | 13 |
| 68 | Impact of uremic environment on peritoneum: A proteomic view. Journal of Proteomics, 2012, 75, 2053-2063. | 2.4 | 13 |
| 69 | 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 |
| 70 | Optimization of titanium dioxide and immunoaffinity-based enrichment procedures for tyrosine phosphopeptide using matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. Analytical and Bioanalytical Chemistry, 2015, 407, 1343-1356. | 3.7 | 12 |
| 71 | 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 |
| 72 | Proteomics analysis of serous fluids and effusions: Pleural, pericardial, and peritoneal. Proteomics - Clinical Applications, 2007, 1, 834-844. | 1.6 | 11 |

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|---|---------|-----|-----------|
| 73 | 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 |
| 74 | 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 |
| 75 | Activation of the Ubiquitin Proteasome Pathway by Silk Fibroin Modified Chitosan Nanoparticles in Hepatic Cancer Cells. International Journal of Molecular Sciences, 2015, 16, 1657-1676. | 4.1 | 10 |
| 76 | 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 |
| 77 | Identification of Phosphorylated Cyclin-Dependent Kinase 1 Associated with Colorectal Cancer Survival Using Label-Free Quantitative Analyses. PLoS ONE, 2016, 11, e0158844. | 2.5 | 9 |
| 78 | Proteomic analysis of pericardial effusion: Characteristics of tuberculosisâ€related proteins. Proteomics - Clinical Applications, 2008, 2, 458-466. | 1.6 | 8 |
| 79 | A label-free differential proteomic analysis of mouse bronchoalveolar lavage fluid exposed to ultrafine carbon black. Analytica Chimica Acta, 2010, 673, 160-166. | 5.4 | 8 |
| 80 | 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 |
| 81 | LCMD: Lung Cancer Metabolome Database. Computational and Structural Biotechnology Journal, 2022, 20, 65-78. | 4.1 | 8 |
| 82 | Proteomic analysis of proteins associated with tt-DDE induced toxicity in BEAS-2B cells. Biochemical and Biophysical Research Communications, 2008, 376, 519-524. | 2.1 | 7 |
| 83 | Secretome analysis using a hollow fiber culture system for cancer biomarker discovery. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 2285-2292. | 2.3 | 7 |
| 84 | Comparative Proteomic Analysis of Peritoneal Dialysate from Chronic Glomerulonephritis Patients. BioMed Research International, 2013, 2013, 1-10. | 1.9 | 7 |
| 85 | Exposure Marker Discovery of Phthalates Using Mass Spectrometry. Mass Spectrometry, 2017, 6, S0062-S0062. | 0.6 | 7 |
| 86 | Assessment of Serological Early Biomarker Candidates for Lung Adenocarcinoma by using Multiple Reaction Monitoringâ€Mass Spectrometry. Proteomics - Clinical Applications, 2020, 14, e1900095. | 1.6 | 7 |
| 87 | Novel virus-associated proteins encoded by UL112â€"113 of human cytomegalovirus. Journal of General Virology, 2009, 90, 2840-2848. | 2.9 | 6 |
| 88 | Age-dependent congener profiles of polychlorinated dibenzo-p-dioxins and dibenzofurans in the general population of Taiwan. Chemosphere, 2010, 81, 469-477. | 8.2 | 6 |
| 89 | 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 |
| 90 | Synthesis and characterization of alkyne functionalized nanomaterial for the enrichment of phosphopeptides. Materials Letters, 2013, 92, 433-436. | 2.6 | 2 |

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| 91 | 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 |
| 92 | 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 |
| 93 | Investigation of effects attributed to spherical carbon nanomaterials in proteomic matrix-assisted laser desorption ionization-time of flight mass spectrometer. , 2007, , . | | 0 |
| 94 | 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 |
| 95 | Taiwan proteomics society: an organization affiliated with HUPO. Molecular and Cellular Proteomics, 2008, 7, 1584-5. | 3.8 | 0 |