W Andy Tao

List of Publications by Year
in descending order

112	7,415	53660	58464
papers	citations	45 h-index	82 g-index

119	119	119	9361
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Characterization of the microRNA transcriptomes and proteomics of cochlear tissue-derived small extracellular vesicles from mice of different ages after birth. Cellular and Molecular Life Sciences, 2022, 79, 154.	2.4	10
2	Extracellular Vesicles and Their Emerging Roles as Cellular Messengers in Endocrinology: An Endocrine Society Scientific Statement. Endocrine Reviews, 2022, 43, 441-468.	8.9	40
3	Proteomics, Phosphoproteomics and Mirna Analysis of Circulating Extracellular Vesicles through Automated and High-Throughput Isolation. Cells, 2022, 11, 2070.	1.8	8
4	Synergistically Bifunctional Paramagnetic Separation Enables Efficient Isolation of Urine Extracellular Vesicles and Downstream Phosphoproteomic Analysis. ACS Applied Materials & Interfaces, 2021, 13, 3622-3630.	4.0	29
5	A domesticated Harbinger transposase forms a complex with HDA6 and promotes histone H3 deacetylation at genes but not TEs in Arabidopsis. Journal of Integrative Plant Biology, 2021, 63, 1462-1474.	4.1	14
6	Universal Sample Preparation Workflow for Plant Phosphoproteomic Profiling. Methods in Molecular Biology, 2021, 2358, 93-103.	0.4	3
7	Profiling Glycoproteins on Functionalized Reverse Phase Protein Array. Methods in Molecular Biology, 2021, 2237, 207-215.	0.4	0
8	Sequential phosphoproteomics and N-glycoproteomics of plasma-derived extracellular vesicles. Nature Protocols, 2020, 15, 161-180.	5.5	56
9	Tracking Pathogen Infections by Timeâ€Resolved Chemical Proteomics. Angewandte Chemie - International Edition, 2020, 59, 2235-2240.	7.2	6
10	Tracking Pathogen Infections by Timeâ€Resolved Chemical Proteomics. Angewandte Chemie, 2020, 132, 2255-2260.	1.6	1
11	Glass Fiber-Supported Hybrid Monolithic Spin Tip for Enrichment of Phosphopeptides from Urinary Extracellular Vesicles. Analytical Chemistry, 2020, 92, 14790-14797.	3.2	8
12	The Na+ pump Ena1 is a yeast Epsin-specific cargo requiring its ubiquitination/phosphorylation sites for internalization. Journal of Cell Science, 2020, 133, .	1.2	8
13	Chemical proteomics tracks virus entry and uncovers NCAM1 as Zika virus receptor. Nature Communications, 2020, 11, 3896.	5.8	39
14	Plasma-Derived Extracellular Vesicle Phosphoproteomics through Chemical Affinity Purification. Journal of Proteome Research, 2020, 19, 2563-2574.	1.8	51
15	CDK8 is associated with RAP2.6 and SnRK2.6 and positively modulates abscisic acid signaling and drought response in Arabidopsis. New Phytologist, 2020, 228, 1573-1590.	3.5	50
16	Mapping proteome-wide targets of protein kinases in plant stress responses. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3270-3280.	3.3	102
17	A RAF-SnRK2 kinase cascade mediates early osmotic stress signaling in higher plants. Nature Communications, 2020, 11, 613.	5.8	147
18	Methyltransferase-like 21c methylates and stabilizes the heat shock protein Hspa8 in type I myofibers in mice. Journal of Biological Chemistry, 2019, 294, 13718-13728.	1.6	22

#	Article	IF	Citations
19	Methyltransferaseâ€like 21e inhibits 26S proteasome activity to facilitate hypertrophy of type IIb myofibers. FASEB Journal, 2019, 33, 9672-9684.	0.2	9
20	Identification of the Direct Substrates of the ABL Kinase via Kinase Assay Linked Phosphoproteomics with Multiple Drug Treatments. Journal of Proteome Research, 2019, 18, 1679-1690.	1.8	8
21	Analytical Pipeline for Discovery and Verification of Glycoproteins from Plasma-Derived Extracellular Vesicles as Breast Cancer Biomarkers. Analytical Chemistry, 2018, 90, 6307-6313.	3.2	46
22	Reciprocal Regulation of the TOR Kinase and ABA Receptor Balances Plant Growth and Stress Response. Molecular Cell, 2018, 69, 100-112.e6.	4.5	385
23	Acquisition of Cholangiocarcinoma Traits during Advanced Hepatocellular Carcinoma Development in Mice. American Journal of Pathology, 2018, 188, 656-671.	1.9	27
24	Arabidopsis AGDP1 links H3K9me2 to DNA methylation in heterochromatin. Nature Communications, 2018, 9, 4547.	5.8	66
25	Highly Efficient Phosphoproteome Capture and Analysis from Urinary Extracellular Vesicles. Journal of Proteome Research, 2018, 17, 3308-3316.	1.8	59
26	Universal Plant Phosphoproteomics Workflow and Its Application to Tomato Signaling in Response to Cold Stress*. Molecular and Cellular Proteomics, 2018, 17, 2068-2080.	2.5	57
27	Characterization and applications of extracellular vesicle proteome with post-translational modifications. TrAC - Trends in Analytical Chemistry, 2018, 107, 21-30.	5.8	33
28	High-Throughput Phosphorylation Screening and Validation through Ti(IV)-Nanopolymer Functionalized Reverse Phase Phosphoprotein Array. Analytical Chemistry, 2018, 90, 10263-10270.	3.2	3
29	Arabidopsis Duodecuple Mutant of PYL ABA Receptors Reveals PYL Repression of ABA-Independent SnRK2 Activity. Cell Reports, 2018, 23, 3340-3351.e5.	2.9	153
30	Phosphoproteins in extracellular vesicles as candidate markers for breast cancer. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3175-3180.	3.3	328
31	Estimating the Efficiency of Phosphopeptide Identification by Tandem Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2017, 28, 1127-1135.	1.2	6
32	A pair of transposon-derived proteins function in a histone acetyltransferase complex for active DNA demethylation. Cell Research, 2017, 27, 226-240.	5.7	80
33	EZH2 Modifies Sunitinib Resistance in Renal Cell Carcinoma by Kinome Reprogramming. Cancer Research, 2017, 77, 6651-6666.	0.4	66
34	MAP Kinase Cascades Regulate the Cold Response by Modulating ICE1 Protein Stability. Developmental Cell, 2017, 43, 618-629.e5.	3.1	359
35	Recent advances in phosphoproteomics and application to neurological diseases. Analyst, The, 2017, 142, 4373-4387.	1.7	33
36	Identification of Upstream Kinases by Fluorescence Complementation Mass Spectrometry. ACS Central Science, 2017, 3, 1078-1085.	5.3	9

#	Article	IF	Citations
37	A protein complex regulates RNA processing of intronic heterochromatin-containing genes in Arabidopsis. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E7377-E7384.	3.3	74
38	The SnRK2 kinases modulate miRNA accumulation in Arabidopsis. PLoS Genetics, 2017, 13, e1006753.	1.5	87
39	Identification of Plant Kinase Substrates Based on Kinase Assay-Linked Phosphoproteomics. Methods in Molecular Biology, 2017, 1636, 327-335.	0.4	1
40	BNIP3 Protein Suppresses PINK1 Kinase Proteolytic Cleavage to Promote Mitophagy. Journal of Biological Chemistry, 2016, 291, 21616-21629.	1.6	194
41	Three-Dimensionally Functionalized Reverse Phase Glycoprotein Array for Cancer Biomarker Discovery and Validation. Journal of the American Chemical Society, 2016, 138, 15311-15314.	6.6	34
42	Multiplexed Imaging of Protein Phosphorylation on Membranes Based on Ti^{IV} Functionalized Nanopolymers. ChemBioChem, 2016, 17, 900-903.	1.3	3
43	The E3 ubiquitin ligase CHIP mediates ubiquitination and proteasomal degradation of PRMT5. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 335-346.	1.9	54
44	Identification of Direct Kinase Substrates via Kinase Assay-Linked Phosphoproteomics. Methods in Molecular Biology, 2016, 1355, 263-273.	0.4	6
45	Universal Nonâ€Antibody Detection of Protein Phosphorylation Using pIMAGO. Current Protocols in Chemical Biology, 2015, 7, 17-25.	1.7	1
46	Nitric oxide negatively regulates abscisic acid signaling in guard cells by S-nitrosylation of OST1. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 613-618.	3.3	318
47	The Methyl-CpG-Binding Protein MBD7 Facilitates Active DNA Demethylation to Limit DNA Hyper-Methylation and Transcriptional Gene Silencing. Molecular Cell, 2015, 57, 971-983.	4.5	112
48	Sensitive measurement of total protein phosphorylation level in complex protein samples. Analyst, The, 2015, 140, 3390-3396.	1.7	5
49	In-depth analyses of B cell signaling through tandem mass spectrometry of phosphopeptides enriched by PolyMAC. International Journal of Mass Spectrometry, 2015, 377, 744-753.	0.7	18
50	The Sensor Histidine Kinase RgfC Affects Group B Streptococcal Virulence Factor Expression Independent of Its Response Regulator RgfA. Infection and Immunity, 2015, 83, 1078-1088.	1.0	12
51	Time-Resolved Proteomic Visualization of Dendrimer Cellular Entry and Trafficking. Journal of the American Chemical Society, 2015, 137, 12772-12775.	6.6	18
52	MET18 Connects the Cytosolic Iron-Sulfur Cluster Assembly Pathway to Active DNA Demethylation in Arabidopsis. PLoS Genetics, 2015, 11, e1005559.	1.5	43
53	Quantitation of the Phosphoproteome Using the Library-Assisted eXtracted Ion Chromatogram (LAXIC) Strategy. Methods in Molecular Biology, 2014, 1156, 407-416.	0.4	2
54	Tissue phosphoproteomics with PolyMAC identifies potential therapeutic targets in a transgenic mouse model of HER2 positive breast cancer. Electrophoresis, 2014, 35, 3463-3469.	1.3	12

#	Article	IF	Citations
55	Identification of Extracellular Signal-regulated Kinase 1 (ERK1) Direct Substrates using Stable Isotope Labeled Kinase Assay-Linked Phosphoproteomics. Molecular and Cellular Proteomics, 2014, 13, 3199-3210.	2.5	41
56	Global Phosphoproteomics of Activated B Cells Using Complementary Metal Ion Functionalized Soluble Nanopolymers. Analytical Chemistry, 2014, 86, 6363-6371.	3.2	17
57	Specific Visualization and Identification of Phosphoproteome in Gels. Analytical Chemistry, 2014, 86, 6741-6747.	3.2	7
58	Current technologies to identify protein kinase substrates in high throughput. Frontiers in Biology, 2013, 8, 216-227.	0.7	16
59	A Quantitative Proteomics-Based Competition Binding Assay to Characterize pITAMâ€“Protein Interactions. Analytical Chemistry, 2013, 85, 5071-5077.	3.2	4
60	Phosphatase of Regenerating Liver 3 (PRL3) Provokes a Tyrosine Phosphoproteome to Drive Prometastatic Signal Transduction. Molecular and Cellular Proteomics, 2013, 12, 3759-3777.	2.5	28
61	Identification of the Components of a Glycolytic Enzyme Metabolon on the Human Red Blood Cell Membrane. Journal of Biological Chemistry, 2013, 288, 848-858.	1.6	102
62	Is phosphoproteomics ready for clinical research?. Clinica Chimica Acta, 2013, 420, 23-27.	0.5	18
63	Syk Inhibits the Activity of Protein Kinase A by Phosphorylating Tyrosine 330 of the Catalytic Subunit. Journal of Biological Chemistry, 2013, 288, 10870-10881.	1.6	14
64	Quantitative phosphoproteomics identifies SnRK2 protein kinase substrates and reveals the effectors of abscisic acid action. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11205-11210.	3.3	394
65	Quantitative Measurement of Phosphoproteome Response to Osmotic Stress in Arabidopsis Based on Library-Assisted eXtracted Ion Chromatogram (LAXIC). Molecular and Cellular Proteomics, 2013, 12, 2354-2369.	2.5	62
66	Identification of Direct Tyrosine Kinase Substrates Based on Protein Kinase Assay-Linked Phosphoproteomics. Molecular and Cellular Proteomics, 2013, 12, 2969-2980.	2.5	35
67	Sensitive kinase assay linked with phosphoproteomics for identifying direct kinase substrates. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5615-5620.	3.3	115
68	Regulation of parkin and PINK1 by neddylation. Human Molecular Genetics, 2012, 21, 2514-2523.	1.4	60
69	Multiplexed Quantitation of Protein Expression and Phosphorylation Based on Functionalized Soluble Nanopolymers. Journal of the American Chemical Society, 2012, 134, 18201-18204.	6.6	21
70	Identification of cytoskeletal elements enclosing the ATP pools that fuel human red blood cell membrane cation pumps. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 12794-12799.	3.3	54
71	Chemical Visualization of Phosphoproteomes on Membrane. Molecular and Cellular Proteomics, 2012, 11, 629-639.	2.5	26
72	Direct detection of fatty acid ethyl esters using low temperature plasma (LTP) ambient ionization mass spectrometry for rapid bacterial differentiation. Analyst, The, 2011, 136, 3091.	1.7	37

#	Article	IF	Citations
73	Phosphorylation Assay Based on Multifunctionalized Soluble Nanopolymer. Analytical Chemistry, 2011, 83, 2767-2774.	3.2	30
74	Characterization of toxins from the broad-banded water snake Helicops angulatus (Linnaeus, 1758): isolation of a cysteine-rich secretory protein, Helicopsin. Archives of Toxicology, 2011, 85, 305-313.	1.9	25
75	Proteomic Studies of Syk-Interacting Proteins Using a Novel Amine-Specific Isotope Tag and GFP Nanotrap. Journal of the American Society for Mass Spectrometry, 2011, 22, 319-328.	1.2	21
76	Identification of Drug Targets In Vitro and in Living Cells by Solubleâ€Nanopolymerâ€Based Proteomics. Angewandte Chemie - International Edition, 2011, 50, 4133-4136.	7.2	21
77	Rapid direct lipid profiling of bacteria using desorption electrospray ionization mass spectrometry. International Journal of Mass Spectrometry, 2011, 301, 37-44.	0.7	92
78	Functionalized Soluble Nanopolymers for Phosphoproteome Analysis. Methods in Molecular Biology, 2011, 790, 277-285.	0.4	12
79	In-depth Analyses of Kinase-dependent Tyrosine Phosphoproteomes Based on Metal Ion-functionalized Soluble Nanopolymers. Molecular and Cellular Proteomics, 2010, 9, 2162-2172.	2.5	143
80	Playing tag with quantitative proteomics. Analytical and Bioanalytical Chemistry, 2009, 393, 503-513.	1.9	46
81	Identification of Serine/Threonine Kinase Substrates in the Human Pathogen Group B Streptococcus. Journal of Proteome Research, 2009, 8, 2563-2574.	1.8	49
82	Quantitative Phospho-proteomics Based on Soluble Nanopolymers. Methods in Molecular Biology, 2009, 527, 117-129.	0.4	6
83	Quantitative Analysis of Snake Venoms Using Soluble Polymer-based Isotope Labeling. Molecular and Cellular Proteomics, 2008, 7, 785-799.	2.5	11
84	Soluble polymer-based isotopic labeling (SoPIL): a new strategy to discover protein biomarkers?. Expert Review of Proteomics, 2007, 4, 603-607.	1.3	2
85	Profiling constitutive proteolytic events in vivo. Biochemical Journal, 2007, 407, 41-48.	1.7	136
86	Soluble nanopolymer-based phosphoproteomics for studying protein phosphatase. Methods, 2007, 42, 289-297.	1.9	6
87	A Novel Quantitative Proteomics Strategy To Study Phosphorylation-Dependent Peptideâ^'Protein Interactions. Journal of Proteome Research, 2007, 6, 133-140.	1.8	42
88	Rapid ambient mass spectrometric profiling of intact, untreated bacteria using desorption electrospray ionization. Chemical Communications, 2007, , 61-63.	2.2	97
89	An integrated chemical, mass spectrometric and computational strategy for (quantitative) phosphoproteomics: application to Drosophila melanogaster Kc167 cells. Molecular BioSystems, 2007, 3, 275.	2.9	76
90	A novel quantitative proteomics reagent based on soluble nanopolymers. Chemical Communications, 2007, , 1251.	2.2	21

#	Article	IF	Citations
91	Identification of Proteolytic Cleavage Sites by Quantitative Proteomics. Journal of Proteome Research, 2007, 6, 2850-2858.	1.8	83
92	PTEN-deficient intestinal stem cells initiate intestinal polyposis. Nature Genetics, 2007, 39, 189-198.	9.4	391
93	Polar Acetalization and Transacetalization in the Gas Phase:â€‰ The Eberlin Reaction. Chemical Reviews, 2006, 106, 188-211.	23.0	83
94	Quantitative phosphoproteome analysis using a dendrimer conjugation chemistry and tandem mass spectrometry. Nature Methods, 2005, 2, 591-598.	9.0	302
95	Proteomic analysis identifies that 14-3-3Â interacts with Â-catenin and facilitates its activation by Akt. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 15370-15375.	3.3	138
96	Kinetic method for the simultaneous chiral analysis of different amino acids in mixtures. Journal of Mass Spectrometry, 2003, 38, 386-393.	0.7	59
97	Advances in quantitative proteomics via stable isotope tagging and mass spectrometry. Current Opinion in Biotechnology, 2003, 14, 110-118.	3.3	264
98	Peer Reviewed: Chiral analysis by MS. Analytical Chemistry, 2003, 75, 25 A-31 A.	3.2	122
99	Chiral Preferences in the Dissociation of Homogeneous Amino Acid/Metal Ion Clusters. European Journal of Mass Spectrometry, 2002, 8, 107-115.	0.5	20
100	Quotient Ratio Method for Quantitative Enantiomeric Determination by Mass Spectrometry. Analytical Chemistry, 2002, 74, 3783-3789.	3.2	60
101	Ligand and metal-ion effects in metal-ion clusters used for chiral analysis of Î±-hydroxy acids by the kinetic method. Analytical and Bioanalytical Chemistry, 2002, 373, 618-627.	1.9	47
102	Eberlin reaction of arenesulfenylium cations with cyclic acetals and ketals: ring contraction and cycloreversion. Perkin Transactions II RSC, 2001, , 350-355.	1.1	7
103	Mass Spectrometric Quantitation of Chiral Drugs by the Kinetic Method. Analytical Chemistry, 2001, 73, 1692-1698.	3.2	160
104	Rapid Enantiomeric Quantification of an Antiviral Nucleoside Agent (d,l-FMAU,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td (2â€˜-Fluor Chemistry, 2001, 44, 3541-3544.	2.9	51
105	Differentiation and quantitation of isomeric dipeptides by low-energy dissociation of copper(II)-bound complexes. Journal of the American Society for Mass Spectrometry, 2001, 12, 490-496.	1.2	62
106	Gas-phase SN2 reactivity of dicoordinated borinium cations using pentaquadrupole mass spectrometry. Journal of the American Society for Mass Spectrometry, 2001, 12, 948-955.	1.2	12
107	Parallel Reactions for Enantiomeric Quantification of Peptides by Mass Spectrometry. Angewandte Chemie - International Edition, 2001, 40, 757-760.	7.2	82
108	Rapid enantiomeric determination of Î±-hydroxy acids by electrospray ionization tandem mass spectrometry. Chemical Communications, 2000, , 2023-2024.	2.2	62

#	Article	IF	Citations
109	Replacement of Câ€™O by Pâ€™O in Cyclic Acetals and Ketals. Angewandte Chemie - International Edition, 1999, 38, 386-389.	7.2	22
110	Kinetic Resolution ofd,l-Amino Acids Based on Gas-Phase Dissociation of Copper(II) Complexes. Analytical Chemistry, 1999, 71, 4427-4429.	3.2	137
111	Synthesis of B- and P-Heterocycles by Reaction of Cyclic Acetals and Ketals with Borinium and Phosphonium Ions. Journal of Organic Chemistry, 1999, 64, 3213-3223.	1.7	29
112	Low molecular weight protein phosphatase APH mediates tyrosine dephosphorylation and ABA response in Arabidopsis.. Stress Biology, 0, , .	1.5	1