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	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
2	PTEN-deficient intestinal stem cells initiate intestinal polyposis. Nature Genetics, 2007, 39, 189-198.	9.4	391
3	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
4	MAP Kinase Cascades Regulate the Cold Response by Modulating ICE1 Protein Stability. Developmental Cell, 2017, 43, 618-629.e5.	3.1	359
5	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
6	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
7	Quantitative phosphoproteome analysis using a dendrimer conjugation chemistry and tandem mass spectrometry. Nature Methods, 2005, 2, 591-598.	9.0	302
8	Advances in quantitative proteomics via stable isotope tagging and mass spectrometry. Current Opinion in Biotechnology, 2003, 14, 110-118.	3.3	264
9	BNIP3 Protein Suppresses PINK1 Kinase Proteolytic Cleavage to Promote Mitophagy. Journal of Biological Chemistry, 2016, 291, 21616-21629.	1.6	194
10	Mass Spectrometric Quantitation of Chiral Drugs by the Kinetic Method. Analytical Chemistry, 2001, 73, 1692-1698.	3.2	160
11	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
12	A RAF-SnRK2 kinase cascade mediates early osmotic stress signaling in higher plants. Nature Communications, 2020, 11, 613.	5.8	147
13	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
14	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
15	Kinetic Resolution ofd,l-Amino Acids Based on Gas-Phase Dissociation of Copper(II) Complexes. Analytical Chemistry, 1999, 71, 4427-4429.	3.2	137
16	Profiling constitutive proteolytic events in vivo. Biochemical Journal, 2007, 407, 41-48.	1.7	136
17	Peer Reviewed: Chiral analysis by MS. Analytical Chemistry, 2003, 75, 25 A-31 A.	3.2	122
18	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

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19	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
20	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
21	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
22	Rapid ambient mass spectrometric profiling of intact, untreated bacteria using desorption electrospray ionization. Chemical Communications, 2007, , 61-63.	2.2	97
23	Rapid direct lipid profiling of bacteria using desorption electrospray ionization mass spectrometry. International Journal of Mass Spectrometry, 2011, 301, 37-44.	0.7	92
24	The SnRK2 kinases modulate miRNA accumulation in Arabidopsis. PLoS Genetics, 2017, 13, e1006753.	1.5	87
25	Polar Acetalization and Transacetalization in the Gas Phase:â€‰ The Eberlin Reaction. Chemical Reviews, 2006, 106, 188-211.	23.0	83
26	Identification of Proteolytic Cleavage Sites by Quantitative Proteomics. Journal of Proteome Research, 2007, 6, 2850-2858.	1.8	83
27	Parallel Reactions for Enantiomeric Quantification of Peptides by Mass Spectrometry. Angewandte Chemie - International Edition, 2001, 40, 757-760.	7.2	82
28	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
29	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
30	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
31	EZH2 Modifies Sunitinib Resistance in Renal Cell Carcinoma by Kinome Reprogramming. Cancer Research, 2017, 77, 6651-6666.	0.4	66
32	Arabidopsis AGDP1 links H3K9me2 to DNA methylation in heterochromatin. Nature Communications, 2018, 9, 4547.	5.8	66
33	Rapid enantiomeric determination of Î±-hydroxy acids by electrospray ionization tandem mass spectrometry. Chemical Communications, 2000, , 2023-2024.	2.2	62
34	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
35	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
36	Quotient Ratio Method for Quantitative Enantiomeric Determination by Mass Spectrometry. Analytical Chemistry, 2002, 74, 3783-3789.	3.2	60

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37	Regulation of parkin and PINK1 by neddylation. Human Molecular Genetics, 2012, 21, 2514-2523.	1.4	60
38	Kinetic method for the simultaneous chiral analysis of different amino acids in mixtures. Journal of Mass Spectrometry, 2003, 38, 386-393.	0.7	59
39	Highly Efficient Phosphoproteome Capture and Analysis from Urinary Extracellular Vesicles. Journal of Proteome Research, 2018, 17, 3308-3316.	1.8	59
40	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
41	Sequential phosphoproteomics and N-glycoproteomics of plasma-derived extracellular vesicles. Nature Protocols, 2020, 15, 161-180.	5.5	56
42	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
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	Rapid Enantiomeric Quantification of an Antiviral Nucleoside Agent (d,l-FMAU,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Td (2â€˜-Fluor Chemistry, 2001, 44, 3541-3544.	2.9	51
45	Plasma-Derived Extracellular Vesicle Phosphoproteomics through Chemical Affinity Purification. Journal of Proteome Research, 2020, 19, 2563-2574.	1.8	51
46	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
47	Identification of Serine/Threonine Kinase Substrates in the Human Pathogen Group B Streptococcus. Journal of Proteome Research, 2009, 8, 2563-2574.	1.8	49
48	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
49	Playing tag with quantitative proteomics. Analytical and Bioanalytical Chemistry, 2009, 393, 503-513.	1.9	46
50	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
51	MET18 Connects the Cytosolic Iron-Sulfur Cluster Assembly Pathway to Active DNA Demethylation in Arabidopsis. PLoS Genetics, 2015, 11, e1005559.	1.5	43
52	A Novel Quantitative Proteomics Strategy To Study Phosphorylation-Dependent Peptideâ^'Protein Interactions. Journal of Proteome Research, 2007, 6, 133-140.	1.8	42
53	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
54	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

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55	Chemical proteomics tracks virus entry and uncovers NCAM1 as Zika virus receptor. Nature Communications, 2020, 11, 3896.	5.8	39
56	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
57	Identification of Direct Tyrosine Kinase Substrates Based on Protein Kinase Assay-Linked Phosphoproteomics. Molecular and Cellular Proteomics, 2013, 12, 2969-2980.	2.5	35
58	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
59	Recent advances in phosphoproteomics and application to neurological diseases. Analyst, The, 2017, 142, 4373-4387.	1.7	33
60	Characterization and applications of extracellular vesicle proteome with post-translational modifications. TrAC - Trends in Analytical Chemistry, 2018, 107, 21-30.	5.8	33
61	Phosphorylation Assay Based on Multifunctionalized Soluble Nanopolymer. Analytical Chemistry, 2011, 83, 2767-2774.	3.2	30
62	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
63	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
64	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
65	Acquisition of Cholangiocarcinoma Traits during Advanced Hepatocellular Carcinoma Development in Mice. American Journal of Pathology, 2018, 188, 656-671.	1.9	27
66	Chemical Visualization of Phosphoproteomes on Membrane. Molecular and Cellular Proteomics, 2012, 11, 629-639.	2.5	26
67	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
68	Replacement of Câ˜O by Pâ˜O in Cyclic Acetals and Ketals. Angewandte Chemie - International Edition, 1999, 38, 386-389.	7.2	22
69	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
70	A novel quantitative proteomics reagent based on soluble nanopolymers. Chemical Communications, 2007, , 1251.	2.2	21
71	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
72	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

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73	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
74	Chiral Preferences in the Dissociation of Homogeneous Amino Acid/Metal Ion Clusters. European Journal of Mass Spectrometry, 2002, 8, 107-115.	0.5	20
75	Is phosphoproteomics ready for clinical research?. Clinica Chimica Acta, 2013, 420, 23-27.	0.5	18
76	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
77	Time-Resolved Proteomic Visualization of Dendrimer Cellular Entry and Trafficking. Journal of the American Chemical Society, 2015, 137, 12772-12775.	6.6	18
78	Global Phosphoproteomics of Activated B Cells Using Complementary Metal Ion Functionalized Soluble Nanopolymers. Analytical Chemistry, 2014, 86, 6363-6371.	3.2	17
79	Current technologies to identify protein kinase substrates in high throughput. Frontiers in Biology, 2013, 8, 216-227.	0.7	16
80	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
81	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
82	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
83	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
84	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
85	Functionalized Soluble Nanopolymers for Phosphoproteome Analysis. Methods in Molecular Biology, 2011, 790, 277-285.	0.4	12
86	Quantitative Analysis of Snake Venoms Using Soluble Polymer-based Isotope Labeling. Molecular and Cellular Proteomics, 2008, 7, 785-799.	2.5	11
87	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
88	Identification of Upstream Kinases by Fluorescence Complementation Mass Spectrometry. ACS Central Science, 2017, 3, 1078-1085.	5.3	9
89	Methyltransferaseâ€like 21e inhibits 26S proteasome activity to facilitate hypertrophy of type IIb myofibers. FASEB Journal, 2019, 33, 9672-9684.	0.2	9
90	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

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91	Glass Fiber-Supported Hybrid Monolithic Spin Tip for Enrichment of Phosphopeptides from Urinary Extracellular Vesicles. Analytical Chemistry, 2020, 92, 14790-14797.	3.2	8
92	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
93	Proteomics, Phosphoproteomics and Mirna Analysis of Circulating Extracellular Vesicles through Automated and High-Throughput Isolation. Cells, 2022, 11, 2070.	1.8	8
94	Eberlin reaction of arenesulfenylium cations with cyclic acetals and ketals: ring contraction and cycloreversion. Perkin Transactions II RSC, 2001, , 350-355.	1.1	7
95	Specific Visualization and Identification of Phosphoproteome in Gels. Analytical Chemistry, 2014, 86, 6741-6747.	3.2	7
96	Soluble nanopolymer-based phosphoproteomics for studying protein phosphatase. Methods, 2007, 42, 289-297.	1.9	6
97	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
98	Tracking Pathogen Infections by Timeâ€Resolved Chemical Proteomics. Angewandte Chemie - International Edition, 2020, 59, 2235-2240.	7.2	6
99	Identification of Direct Kinase Substrates via Kinase Assay-Linked Phosphoproteomics. Methods in Molecular Biology, 2016, 1355, 263-273.	0.4	6
100	Quantitative Phospho-proteomics Based on Soluble Nanopolymers. Methods in Molecular Biology, 2009, 527, 117-129.	0.4	6
101	Sensitive measurement of total protein phosphorylation level in complex protein samples. Analyst, The, 2015, 140, 3390-3396.	1.7	5
102	A Quantitative Proteomics-Based Competition Binding Assay to Characterize pITAMâ€“Protein Interactions. Analytical Chemistry, 2013, 85, 5071-5077.	3.2	4
103	Multiplexed Imaging of Protein Phosphorylation on Membranes Based on Ti^{IV} Functionalized Nanopolymers. ChemBioChem, 2016, 17, 900-903.	1.3	3
104	High-Throughput Phosphorylation Screening and Validation through Ti(IV)-Nanopolymer Functionalized Reverse Phase Phosphoprotein Array. Analytical Chemistry, 2018, 90, 10263-10270.	3.2	3
105	Universal Sample Preparation Workflow for Plant Phosphoproteomic Profiling. Methods in Molecular Biology, 2021, 2358, 93-103.	0.4	3
106	Soluble polymer-based isotopic labeling (SoPIL): a new strategy to discover protein biomarkers?. Expert Review of Proteomics, 2007, 4, 603-607.	1.3	2
107	Quantitation of the Phosphoproteome Using the Library-Assisted eXtracted Ion Chromatogram (LAXIC) Strategy. Methods in Molecular Biology, 2014, 1156, 407-416.	0.4	2
108	Universal Nonâ€Antibody Detection of Protein Phosphorylation Using pIMAGO. Current Protocols in Chemical Biology, 2015, 7, 17-25.	1.7	1

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109	Tracking Pathogen Infections by Timeâ€Resolved Chemical Proteomics. Angewandte Chemie, 2020, 132, 2255-2260.	1.6	1
110	Identification of Plant Kinase Substrates Based on Kinase Assay-Linked Phosphoproteomics. Methods in Molecular Biology, 2017, 1636, 327-335.	0.4	1
111	Low molecular weight protein phosphatase APH mediates tyrosine dephosphorylation and ABA response in Arabidopsis.. Stress Biology, 0, , .	1.5	1
112	Profiling Glycoproteins on Functionalized Reverse Phase Protein Array. Methods in Molecular Biology, 2021, 2237, 207-215.	0.4	0