

# Kai Zhang

## List of Publications by Year in descending order

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96  
papers

2,559  
citations

201674

27  
h-index

233421

45  
g-index

102  
all docs

102  
docs citations

102  
times ranked

3854  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comprehensive Profiling of Protein Lysine Acetylation in <i>Escherichia coli</i> . <i>Journal of Proteome Research</i> , 2013, 12, 844-851.	3.7	234
2	Stabilization of histone demethylase PHF8 by USP7 promotes breast carcinogenesis. <i>Journal of Clinical Investigation</i> , 2016, 126, 2205-2220.	8.2	149
3	Identification and Verification of Lysine Propionylation and Butyrylation in Yeast Core Histones Using PTMap Software. <i>Journal of Proteome Research</i> , 2009, 8, 900-906.	3.7	141
4	Yes-Associated Protein Promotes Angiogenesis via Signal Transducer and Activator of Transcription 3 in Endothelial Cells. <i>Circulation Research</i> , 2018, 122, 591-605.	4.5	98
5	Click Synthesis of Hydrophilic Maltose-Functionalized Iron Oxide Magnetic Nanoparticles Based on Dopamine Anchors for Highly Selective Enrichment of Glycopeptides. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 24670-24678.	8.0	92
6	Ubiquitin-specific protease 7 sustains DNA damage response and promotes cervical carcinogenesis. <i>Journal of Clinical Investigation</i> , 2018, 128, 4280-4296.	8.2	84
7	NUPR1 maintains autolysosomal efflux by activating SNAP25 transcription in cancer cells. <i>Autophagy</i> , 2018, 14, 654-670.	9.1	70
8	miR-200b suppresses invasiveness and modulates the cytoskeletal and adhesive machinery in esophageal squamous cell carcinoma cells via targeting Kindlin-2. <i>Carcinogenesis</i> , 2014, 35, 292-301.	2.8	53
9	Proteomic analysis of the OGT interactome: novel links to epithelial-mesenchymal transition and metastasis of cervical cancer. <i>Carcinogenesis</i> , 2018, 39, 1222-1234.	2.8	53
10	Protein lysine de-2-hydroxyisobutyrylation by CobB in prokaryotes. <i>Science Advances</i> , 2019, 5, eaaw6703.	10.3	51
11	Ubiquitin ligase RNF20/40 facilitates spindle assembly and promotes breast carcinogenesis through stabilizing motor protein Eg5. <i>Nature Communications</i> , 2016, 7, 12648.	12.8	50
12	Adiponectin Suppresses T Helper 17 Cell Differentiation and Limits Autoimmune CNS Inflammation via the SIRT1/PPAR $\beta$ /ROR $\gamma$ t Pathway. <i>Molecular Neurobiology</i> , 2017, 54, 4908-4920.	4.0	50
13	LOXL2 Upregulates Phosphorylation of Ezrin to Promote Cytoskeletal Reorganization and Tumor Cell Invasion. <i>Cancer Research</i> , 2019, 79, 4951-4964.	0.9	47
14	Regulation of EZH2 by SMYD2-Mediated Lysine Methylation Is Implicated in Tumorigenesis. <i>Cell Reports</i> , 2019, 29, 1482-1498.e4.	6.4	47
15	Arctigenin Suppress Th17 Cells and Ameliorates Experimental Autoimmune Encephalomyelitis Through AMPK and PPAR $\beta$ /ROR $\gamma$ t Signaling. <i>Molecular Neurobiology</i> , 2016, 53, 5356-5366.	4.0	43
16	Systematic Identification of Lysine 2-hydroxyisobutyrylated Proteins in <i>Proteus mirabilis</i> . <i>Molecular and Cellular Proteomics</i> , 2018, 17, 482-494.	3.8	43
17	Incorporation of a flared inlet capillary tube on a Fourier transform ion cyclotron resonance mass spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 2006, 17, 772-779.	2.8	42
18	Triglyceride is an independent predictor of type 2 diabetes among middle-aged and older adults: a prospective study with 8-year follow-ups in two cohorts. <i>Journal of Translational Medicine</i> , 2019, 17, 403.	4.4	42

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19	Separation of peptides by pressurized capillary electrochromatography. <i>Journal of Chromatography A</i> , 2003, 987, 453-458.	3.7	41
20	Intermittent hypoxia mediated by TSP1 dependent on STAT3 induces cardiac fibroblast activation and cardiac fibrosis. <i>ELife</i> , 2020, 9, .	6.0	39
21	A molecularly imprinted polymer as an antibody mimic with affinity for lysine acetylated peptides. <i>Journal of Materials Chemistry B</i> , 2016, 4, 920-928.	5.8	38
22	Cytotoxic necrotizing factor 1 promotes prostate cancer progression through activating the Cdc42-PAK1 axis. <i>Journal of Pathology</i> , 2017, 243, 208-219.	4.5	37
23	Obtaining Resveratrol: from Chemical Synthesis to Biotechnological Production. <i>Mini-Reviews in Organic Chemistry</i> , 2010, 7, 272-281.	1.3	34
24	Protein lysine acetylation analysis: current MS-based proteomic technologies. <i>Analyst</i> , The, 2013, 138, 1628.	3.5	34
25	Comparative analysis of histone H3 and H4 post-translational modifications of esophageal squamous cell carcinoma with different invasive capabilities. <i>Journal of Proteomics</i> , 2015, 112, 180-189.	2.4	33
26	Maltose-Functionalized Hydrophilic Magnetic Nanoparticles with Polymer Brushes for Highly Selective Enrichment of N-Linked Glycopeptides. <i>ACS Omega</i> , 2018, 3, 1572-1580.	3.5	33
27	USP52 acts as a deubiquitinase and promotes histone chaperone ASF1A stabilization. <i>Nature Communications</i> , 2018, 9, 1285.	12.8	33
28	Development of a DNA-Templated Peptide Probe for Photoaffinity Labeling and Enrichment of the Histone Modification Reader Proteins. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7993-7997.	13.8	29
29	Systematic Proteome and Lysine Succinylome Analysis Reveals Enhanced Cell Migration by Hyposuccinylation in Esophageal Squamous Cell Carcinoma. <i>Molecular and Cellular Proteomics</i> , 2021, 20, 100053.	3.8	28
30	USP9X-mediated deubiquitination of B-cell CLL/lymphoma 9 potentiates Wnt signaling and promotes breast carcinogenesis. <i>Journal of Biological Chemistry</i> , 2019, 294, 9844-9857.	3.4	26
31	PHF20L1 as a H3K27me2 reader coordinates with transcriptional repressors to promote breast tumorigenesis. <i>Science Advances</i> , 2020, 6, eaaz0356.	10.3	26
32	HRP2-DPF3-BAF complex coordinates histone modification and chromatin remodeling to regulate myogenic gene transcription. <i>Nucleic Acids Research</i> , 2020, 48, 6563-6582.	14.5	25
33	Surface modification of titanium with hydroxyapatite layer induced by phase-transited lysozyme coating. <i>Materials Science and Engineering C</i> , 2018, 92, 206-215.	7.3	24
34	Association of hypertension and hypertriglyceridemia on incident hyperuricemia: an 8-year prospective cohort study. <i>Journal of Translational Medicine</i> , 2020, 18, 409.	4.4	24
35	Pressurized capillary electrochromatography separation of peptides with strong cation exchange and hydrophilic interaction. <i>Journal of Separation Science</i> , 2003, 26, 1389-1394.	2.5	22
36	DNA-Templated Aptamer Probe for Identification of Target Proteins. <i>Analytical Chemistry</i> , 2017, 89, 4071-4076.	6.5	22

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37	Serum proteomic-based analysis identifying autoantibodies against PRDX2 and PRDX3 as potential diagnostic biomarkers in nasopharyngeal carcinoma. <i>Clinical Proteomics</i> , 2017, 14, 6.	2.1	22
38	A bifunctional monolithic column for combined protein preconcentration and digestion for high throughput proteomics research. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007, 849, 223-230.	2.3	21
39	Higher triglyceride level predicts hyperuricemia: A prospective study of 6-year follow-up. <i>Journal of Clinical Lipidology</i> , 2018, 12, 185-192.	1.5	21
40	High glucose regulates ERp29 in hepatocellular carcinoma by LncRNA MEG3-miRNA 483-3p pathway. <i>Life Sciences</i> , 2019, 232, 116602.	4.3	21
41	Plumbagin suppresses dendritic cell functions and alleviates experimental autoimmune encephalomyelitis. <i>Journal of Neuroimmunology</i> , 2014, 273, 42-52.	2.3	20
42	Inhibition of polycomb repressor complex 2 ameliorates neointimal hyperplasia by suppressing trimethylation of H3K27 in vascular smooth muscle cells. <i>British Journal of Pharmacology</i> , 2019, 176, 3206-3219.	5.4	19
43	Improved osteoblast adhesion and osseointegration on TiO <sub>2</sub> nanotubes surface with hydroxyapatite coating. <i>Dental Materials Journal</i> , 2019, 38, 278-286.	1.8	19
44	ER-anchored CRTH2 antagonizes collagen biosynthesis and organ fibrosis via binding LARP6. <i>EMBO Journal</i> , 2021, 40, e107403.	7.8	19
45	Comprehensive Analysis for Histone Acetylation of Human Colon Cancer Cells Treated with a novel HDAC Inhibitor. <i>Current Pharmaceutical Design</i> , 2014, 20, 1866-1873.	1.9	19
46	Oncoprotein SND1 hijacks nascent MHC-I heavy chain to ER-associated degradation, leading to impaired CD8 <sup>+</sup> T cell response in tumor. <i>Science Advances</i> , 2020, 6, .	10.3	18
47	Macrophage MST1/2 Disruption Impairs Post-Infarction Cardiac Repair via LTB4. <i>Circulation Research</i> , 2021, 129, 909-926.	4.5	18
48	Current separative strategies used for resveratrol determination from natural sources. <i>Analytical Methods</i> , 2011, 3, 2454.	2.7	17
49	Preparation and characterization of DNA aptamer based spin column for enrichment and separation of histones. <i>Chemical Communications</i> , 2012, 48, 6684.	4.1	17
50	P300/CBP-associated factor (PCAF)-mediated acetylation of Fascin at lysine 471 inhibits its actin bundling activity and tumor metastasis in esophageal cancer. <i>Cancer Communications</i> , 2021, 41, 1398-1416.	9.2	16
51	Quantitative proteomics reveals the downregulation of GRB2 as a prominent node of F806-targeted cell proliferation network. <i>Journal of Proteomics</i> , 2015, 117, 145-155.	2.4	15
52	Spleen tyrosine kinase SYK (L) interacts with YY 1 and coordinately suppresses SNAI 2 transcription in lung cancer cells. <i>FEBS Journal</i> , 2018, 285, 4229-4245.	4.7	15
53	Transcriptional coregulator NUPR1 maintains tamoxifen resistance in breast cancer cells. <i>Cell Death and Disease</i> , 2021, 12, 149.	6.3	15
54	Determination of trans-Resveratrol in China Great Wall "Fazenda" Red Wine by Use of Micellar Electrokinetic Chromatography. <i>Chromatographia</i> , 2005, 62, 289-294.	1.3	14

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55	Loss of fragile site-associated tumor suppressor promotes antitumor immunity via macrophage polarization. <i>Nature Communications</i> , 2021, 12, 4300.	12.8	14
56	Mitochondrial GCN5L1 regulates glutaminase acetylation and hepatocellular carcinoma. <i>Clinical and Translational Medicine</i> , 2022, 12, e852.	4.0	14
57	Preparation and characterization of C16 monolithic columns for capillary electrochromatography. <i>Journal of Separation Science</i> , 2005, 28, 217-224.	2.5	13
58	JMJD6 modulates DNA damage response through downregulating H4K16ac independently of its enzymatic activity. <i>Cell Death and Differentiation</i> , 2020, 27, 1052-1066.	11.2	13
59	Competition between PAF1 and MLL1/COMPASS confers the opposing function of LEDGF/p75 in HIV latency and proviral reactivation. <i>Science Advances</i> , 2020, 6, eaaz8411.	10.3	13
60	A decision tree-based combination of ezrin-interacting proteins to estimate the prognostic risk of patients with esophageal squamous cell carcinoma. <i>Human Pathology</i> , 2017, 66, 115-125.	2.0	12
61	An Integrated Approach Based on a DNA Self-Assembly Technique for Characterization of Crosstalk among Combinatorial Histone Modifications. <i>Analytical Chemistry</i> , 2018, 90, 3692-3696.	6.5	12
62	An Efficient Approach for Selective Enrichment of Histone Modification Readers Using Self-Assembled Multivalent Photoaffinity Peptide Probes. <i>Analytical Chemistry</i> , 2018, 90, 11385-11392.	6.5	12
63	A feedforward circuit shaped by ECT2 and USP7 contributes to breast carcinogenesis. <i>Theranostics</i> , 2020, 10, 10769-10790.	10.0	12
64	PHF8-promoted TOPBP1 demethylation drives ATR activation and preserves genome stability. <i>Science Advances</i> , 2021, 7, .	10.3	12
65	Analysis of trans-Resveratrol in Grapes by Micro-High Performance Liquid Chromatography. <i>Analytical Sciences</i> , 2008, 24, 1019-1023.	1.6	11
66	Analytical strategies used to identify the readers of histone modifications: A review. <i>Analytica Chimica Acta</i> , 2015, 891, 32-42.	5.4	11
67	A PARylation-phosphorylation cascade promotes TOPBP1 loading and RPA-RAD51 exchange in homologous recombination. <i>Molecular Cell</i> , 2022, 82, 2571-2587.e9.	9.7	11
68	Identification of dual histone modification-binding protein interaction by combining mass spectrometry and isothermal titration calorimetric analysis. <i>Journal of Advanced Research</i> , 2020, 22, 35-46.	9.5	10
69	Restrained ion population transfer: a novel ion transfer method for mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 1955-1964.	1.5	9
70	Maleic Anhydride Labeling-Based Approach for Quantitative Proteomics and Successive Derivatization of Peptides. <i>Analytical Chemistry</i> , 2017, 89, 8259-8265.	6.5	9
71	Unrestrictive identification of non-phosphorylation PTMs in yeast kinases by MS and PTMap. <i>Proteomics</i> , 2010, 10, 896-903.	2.2	8
72	Development of a DNA-templated Peptide Probe for Photoaffinity Labeling and Enrichment of the Histone Modification Reader Proteins. <i>Angewandte Chemie</i> , 2016, 128, 8125-8129.	2.0	8

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73	LAP2 $\pm$ preserves genome integrity through assisting RPA deposition on damaged chromatin. <i>Genome Biology</i> , 2022, 23, 64.	8.8	8
74	TmcA functions as a lysine 2-hydroxyisobutyryltransferase to regulate transcription. <i>Nature Chemical Biology</i> , 2022, 18, 142-151.	8.0	8
75	Mixed Mode of Hydrophilic and Ionic Interaction Pressurized Capillary Electrochromatography for Separation of Basic Compounds. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2003, 26, 2119-2131.	1.0	6
76	Preparation and characterization of vorinostat-coated beads for profiling of novel target proteins. <i>Journal of Chromatography A</i> , 2014, 1372, 34-41.	3.7	6
77	Probing the Binding Interfaces of Histone-Aptamer by Photo Cross-Linking Mass Spectrometry. <i>ACS Chemical Biology</i> , 2017, 12, 57-62.	3.4	6
78	Preparation and Porous Property of C14-Monolithic Column for Capillary Electrochromatography. <i>Chromatographia</i> , 2005, 61, 55-60.	1.3	5
79	New Developments of Quantitative Mass Spectrometry-based Proteomics. <i>Chinese Journal of Analytical Chemistry</i> , 2010, 38, 434-441.	1.7	5
80	Data for global lysine-acetylation analysis in rice ( <i>Oryza sativa</i> ). <i>Data in Brief</i> , 2016, 7, 411-417.	1.0	5
81	Profiling post-translational modifications of histones in neural differentiation of embryonic stem cells using liquid chromatography-mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016, 1017-1018, 36-44.	2.3	5
82	Effects of lysine 2-hydroxyisobutyrylation on bacterial FabI activity and resistance to triclosan. <i>Biochimie</i> , 2021, 182, 197-205.	2.6	5
83	An early prediction model for chronic kidney disease. <i>Scientific Reports</i> , 2022, 12, 2765.	3.3	5
84	Combinatorial Peptide Ligand Library-Based Photoaffinity Probe for the Identification of Phosphotyrosine-Binding Domain Proteins. <i>Analytical Chemistry</i> , 2019, 91, 3221-3226.	6.5	4
85	Epithelial cell transforming factor ECT2 is an important regulator of DNA double-strand break repair and genome stability. <i>Journal of Biological Chemistry</i> , 2021, 297, 101036.	3.4	4
86	An Integrated Approach for Combinatorial Readout of Dual Histone Modifications by Epigenetic Tandem Domains. <i>Analytical Chemistry</i> , 2020, 92, 6218-6223.	6.5	3
87	Identification of Abnormal Proteins in Plasma from Gout Patients by LC-MS/MS. <i>Separations</i> , 2021, 8, 85.	2.4	3
88	DNA-guided photoactivatable probe-based chemical proteomics reveals the reader protein of mRNA methylation. <i>iScience</i> , 2021, 24, 103046.	4.1	3
89	Ischemic stroke following STA-MCA double bypass. <i>Translational Neuroscience</i> , 2022, 13, 20-29.	1.4	3
90	Preparation and Evaluation of a Series of Reversed-Phase Monolithic Columns for Capillary Electrochromatography. <i>Analytical Letters</i> , 2004, 37, 2363-2377.	1.8	2

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91	Identification of hydroxylation at aromatic amino acid residues in yeast kinase using mass spectrometry with affinity enrichment. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 185-189.	1.5	2
92	Identification of Two Novel Modifications at Tryptophan Residues. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 1787-1790.	2.8	1
93	Sulfonated calix[4]arene functionalized SiO <sub>2</sub> @TiO <sub>2</sub> for recognition of lysine methylation. <i>Talanta</i> , 2021, 224, 121819.	5.5	1
94	Systematic screening of protein modifications in four kinases using affinity enrichment and mass spectrometry analysis with unrestrictive sequence alignment. <i>Analytica Chimica Acta</i> , 2011, 691, 62-67.	5.4	0
95	Analysis of Differentially Expressed Proteins and Modifications Induced by Formaldehyde Using LC-MS/MS. <i>Separations</i> , 2022, 9, 112.	2.4	0
96	Characterization of molecular and immune landscape of microvascular invasion in hepatocellular carcinoma and prognostic significance.. <i>Journal of Clinical Oncology</i> , 2022, 40, e16162-e16162.	1.6	0