

Lei Zhou

List of Publications by Year in descending order

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91
papers

3,558
citations

147801

31
h-index

155660

55
g-index

92
all docs

92
docs citations

92
times ranked

4287
citing authors

#	ARTICLE	IF	CITATIONS
1	In-depth analysis of the human tear proteome. <i>Journal of Proteomics</i> , 2012, 75, 3877-3885.	2.4	274
2	Identification of Tear Fluid Biomarkers in Dry Eye Syndrome Using iTRAQ Quantitative Proteomics. <i>Journal of Proteome Research</i> , 2009, 8, 4889-4905.	3.7	252
3	Tear analysis in ocular surface diseases. <i>Progress in Retinal and Eye Research</i> , 2012, 31, 527-550.	15.5	228
4	Proteomic Analysis of Human Tears: Defensin Expression after Ocular Surface Surgery. <i>Journal of Proteome Research</i> , 2004, 3, 410-416.	3.7	115
5	Plasma Metabonomic Profiling of Diabetic Retinopathy. <i>Diabetes</i> , 2016, 65, 1099-1108.	0.6	113
6	Characterization of The Human Tear Metabolome by LC-MS/MS. <i>Journal of Proteome Research</i> , 2011, 10, 4876-4882.	3.7	111
7	Amino Acid Modified Xanthone Derivatives: Novel, Highly Promising Membrane-Active Antimicrobials for Multidrug-Resistant Gram-Positive Bacterial Infections. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 739-752.	6.4	109
8	Meta-analysis of genome-wide association scans accounting for education level identifies additional loci for refractive error. <i>Nature Communications</i> , 2016, 7, 11008.	12.8	104
9	Association of tear proteins with Meibomian gland disease and dry eye symptoms. <i>British Journal of Ophthalmology</i> , 2011, 95, 848-852.	3.9	94
10	Proteomic Profiling of Inflammatory Signaling Molecules in the Tears of Patients on Chronic Glaucoma Medication. , 2011, 52, 7385.		92
11	Design and Synthesis of Amphiphilic Xanthone-Based, Membrane-Targeting Antimicrobials with Improved Membrane Selectivity. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 2359-2373.	6.4	88
12	Semisynthetic Flavone-Derived Antimicrobials with Therapeutic Potential against Methicillin-Resistant <i>Staphylococcus aureus</i> (MRSA). <i>Journal of Medicinal Chemistry</i> , 2017, 60, 6152-6165.	6.4	77
13	Linear Analogues of Human α -Defensin 3: Concepts for Design of Antimicrobial Peptides with Reduced Cytotoxicity to Mammalian Cells. <i>ChemBioChem</i> , 2008, 9, 964-973.	2.6	73
14	Quantitative Analysis of N-Linked Glycoproteins in Tear Fluid of Climatic Droplet Keratopathy by Glycopeptide Capture and iTRAQ. <i>Journal of Proteome Research</i> , 2009, 8, 1992-2003.	3.7	70
15	Structure-Dependent Charge Density as a Determinant of Antimicrobial Activity of Peptide Analogues of Defensin. <i>Biochemistry</i> , 2009, 48, 7229-7239.	2.5	64
16	Elevation of Human α -Defensins and S100 Calcium-Binding Proteins A8 and A9 in Tear Fluid of Patients with Pterygium. , 2009, 50, 2077.		62
17	Proteomic analysis of rabbit tear fluid: Defensin levels after an experimental corneal wound are correlated to wound closure. <i>Proteomics</i> , 2007, 7, 3194-3206.	2.2	57
18	Involvement of GABA Transporters in Atropine-Treated Myopic Retina As Revealed by iTRAQ Quantitative Proteomics. <i>Journal of Proteome Research</i> , 2014, 13, 4647-4658.	3.7	56

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19	The power of tears: how tear proteomics research could revolutionize the clinic. <i>Expert Review of Proteomics</i> , 2017, 14, 189-191.	3.0	52
20	Comparison of iTRAQ and SWATH in a clinical study with multiple time points. <i>Clinical Proteomics</i> , 2018, 15, 24.	2.1	50
21	Luteolin attenuates Wnt signaling via upregulation of FZD6 to suppress prostate cancer stemness revealed by comparative proteomics. <i>Scientific Reports</i> , 2018, 8, 8537.	3.3	50
22	Defensins: Antimicrobial peptides for therapeutic development. <i>Biotechnology Journal</i> , 2007, 2, 1353-1359.	3.5	49
23	Quantitation of 47 human tear proteins using high resolution multiple reaction monitoring (HR-MRM) based-mass spectrometry. <i>Journal of Proteomics</i> , 2015, 115, 36-48.	2.4	48
24	Proteomic analysis revealed the altered tear protein profile in a rabbit model of Sjögren's syndrome-associated dry eye. <i>Proteomics</i> , 2013, 13, 2469-2481.	2.2	47
25	Therapeutic effects of mesenchymal stem cell-derived exosomes on retinal detachment. <i>Experimental Eye Research</i> , 2020, 191, 107899.	2.6	46
26	Analysis of rabbit tear proteins by high-pressure liquid chromatography/electrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 401-412.	1.5	45
27	Nerve regeneration by human corneal stromal keratocytes and stromal fibroblasts. <i>Scientific Reports</i> , 2017, 7, 45396.	3.3	45
28	Luteolin inhibits colorectal cancer cell epithelial-to-mesenchymal transition by suppressing CREB1 expression revealed by comparative proteomics study. <i>Journal of Proteomics</i> , 2017, 161, 1-10.	2.4	42
29	Customized Consensus Spectral Library Building for Untargeted Quantitative Metabolomics Analysis with Data Independent Acquisition Mass Spectrometry and MetaboDIA Workflow. <i>Analytical Chemistry</i> , 2017, 89, 4897-4906.	6.5	42
30	A novel fragment based strategy for membrane active antimicrobials against MRSA. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 1023-1031.	2.6	36
31	Hepatic differentiation of human amniotic epithelial cells and <i>in vivo</i> therapeutic effect on animal model of cirrhosis. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2015, 30, 1673-1682.	2.8	35
32	The structural parameters for antimicrobial activity, human epithelial cell cytotoxicity and killing mechanism of synthetic monomer and dimer analogues derived from hBD3 C-terminal region. <i>Amino Acids</i> , 2011, 40, 123-133.	2.7	33
33	Ex Vivo Propagation of Human Corneal Stromal Activated Keratocytes for Tissue Engineering. <i>Cell Transplantation</i> , 2015, 24, 1845-1861.	2.5	33
34	Multiple modes of inhibition of human cytochrome P450 2J2 by dronedarone, amiodarone and their active metabolites. <i>Biochemical Pharmacology</i> , 2016, 107, 67-80.	4.4	33
35	Distribution of Cyclosporin A in the Cornea After Topical or Oral Administration. <i>Journal of Ocular Pharmacology and Therapeutics</i> , 2002, 18, 83-88.	1.4	31
36	Characterisation of human tear proteins using high-resolution mass spectrometry. <i>Annals of the Academy of Medicine, Singapore</i> , 2006, 35, 400-7.	0.4	31

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37	Inactivation of Human Cytochrome P450 3A4 and 3A5 by Dronedarone and N-Desbutyl Dronedarone. <i>Molecular Pharmacology</i> , 2016, 89, 1-13.	2.3	30
38	Proteomic and gene expression patterns of keratoconus. <i>Indian Journal of Ophthalmology</i> , 2013, 61, 389.	1.1	28
39	A Neuronal Activity-Dependent Dual Function Chromatin-Modifying Complex Regulates Arc Expression. <i>ENeuro</i> , 2015, 2, ENEURO.0020-14.2015.	1.9	28
40	Molecular dynamics simulations of a new branched antimicrobial peptide: A comparison of force fields. <i>Journal of Chemical Physics</i> , 2012, 137, 215101.	3.0	26
41	Global Metabonomic and Proteomic Analysis of Human Conjunctival Epithelial Cells (IOBA-NHC) in Response to Hyperosmotic Stress. <i>Journal of Proteome Research</i> , 2015, 14, 3982-3995.	3.7	25
42	Differential epithelial and stromal protein profiles in cone and non-cone regions of keratoconus corneas. <i>Scientific Reports</i> , 2019, 9, 2965.	3.3	25
43	Pharmacokinetic and Toxicity Study of an Intraocular Cyclosporine DDS in the Anterior Segment of Rabbit Eyes. , 2003, 44, 4895.		24
44	Rational Substitution of $\hat{\mu}$ -Lysine for $\hat{\pm}$ -Lysine Enhances the Cell and Membrane Selectivity of Pore-Forming Melittin. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 3522-3537.	6.4	24
45	Comparison of tear proteomic and neuromediator profiles changes between small incision lenticule extraction (SMILE) and femtosecond laser-assisted in-situ keratomileusis (LASIK). <i>Journal of Advanced Research</i> , 2021, 29, 67-81.	9.5	23
46	Collagen-Based Artificial Corneal Scaffold with Anti-Infective Capability for Prevention of Perioperative Bacterial Infections. <i>ACS Biomaterials Science and Engineering</i> , 2015, 1, 1324-1334.	5.2	22
47	<p>miR-520b Promotes Breast Cancer Stemness Through Hippo/YAP Signaling Pathway</p>. <i>OncoTargets and Therapy</i> , 2019, Volume 12, 11691-11700.	2.0	22
48	Optimized analytical method for cyclosporin A by high-performance liquid chromatographyâ€“electrospray ionization mass spectrometry. <i>Biomedical Applications</i> , 2001, 754, 201-207.	1.7	21
49	Recent advances in the applications of metabolomics in eye research. <i>Analytica Chimica Acta</i> , 2018, 1037, 28-40.	5.4	21
50	The penetration and distribution of topical atropine in animal ocular tissues. <i>Acta Ophthalmologica</i> , 2019, 97, e238-e247.	1.1	21
51	Effect of structural parameters of peptides on dimer formation and highly oxidized side products in the oxidation of thiols of linear analogues of human $\hat{2}$ defensin 3 by DMSO. <i>Journal of Peptide Science</i> , 2009, 15, 95-106.	1.4	20
52	Effects of punctal occlusion on global tear proteins in patients with dry eye. <i>Ocular Surface</i> , 2017, 15, 736-741.	4.4	20
53	Reactive Metabolite-induced Protein Glutathionylation: A Potentially Novel Mechanism Underlying Acetaminophen Hepatotoxicity. <i>Molecular and Cellular Proteomics</i> , 2018, 17, 2034-2050.	3.8	20
54	Intra-cameral level of ganciclovir gel, 0.15% following topical application for cytomegalovirus anterior segment infection: A pilot study. <i>PLoS ONE</i> , 2018, 13, e0191850.	2.5	20

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55	SOX4 maintains the stemness of cancer cells via transcriptionally enhancing HDAC1 revealed by comparative proteomics study. <i>Cell and Bioscience</i> , 2021, 11, 23.	4.8	20
56	Tear Proteins Calcium binding protein A4 (S100A4) and Prolactin Induced Protein (PIP) are Potential Biomarkers for Thyroid Eye Disease. <i>Scientific Reports</i> , 2018, 8, 16936.	3.3	19
57	SKP1 promotes YAP-mediated colorectal cancer stemness via suppressing RASSF1. <i>Cancer Cell International</i> , 2020, 20, 579.	4.1	19
58	Topical fluorometholone treatment and desiccating stress change inflammatory protein expression in tears. <i>Ocular Surface</i> , 2018, 16, 84-92.	4.4	18
59	Proteomic analysis of aqueous humor in patients with pathologic myopia. <i>Journal of Proteomics</i> , 2021, 234, 104088.	2.4	18
60	Comparative Analysis of Two Femtosecond LASIK Platforms Using iTRAQ Quantitative Proteomics. , 2014, 55, 3396.		17
61	Local S100A8 Levels Correlate With Recurrence of Experimental Autoimmune Uveitis and Promote Pathogenic T Cell Activity. , 2018, 59, 1332.		16
62	Infigratinib Is a Reversible Inhibitor and Mechanism-Based Inactivator of Cytochrome P450 3A4. <i>Drug Metabolism and Disposition</i> , 2021, 49, 856-868.	3.3	16
63	Expression, purification and characterization of fourth FAS1 domain of TGF β 1-associated corneal dystrophic mutants. <i>Protein Expression and Purification</i> , 2012, 84, 108-115.	1.3	15
64	Plasma Metabolome and Lipidome Associations with Type 2 Diabetes and Diabetic Nephropathy. <i>Metabolites</i> , 2021, 11, 228.	2.9	15
65	High-Density Lipoprotein 3 Cholesterol and Primary Open-Angle Glaucoma. <i>Ophthalmology</i> , 2022, 129, 285-294.	5.2	13
66	Predicting HCC Response to Multikinase Inhibitors With In Vivo Cirrhotic Mouse Model for Personalized Therapy. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2021, 11, 1313-1325.	4.5	12
67	A murine model demonstrating reversal of structural and functional correlates of cirrhosis with progenitor cell transplantation. <i>Scientific Reports</i> , 2019, 9, 15446.	3.3	11
68	A cellular and proteomic approach to assess proteins extracted from cryopreserved human amnion in the cultivation of corneal stromal keratocytes for stromal cell therapy. <i>Eye and Vision (London, England)</i> , 2020, 7, 10.		10
69	Proteomic Analysis of Plasma sEVs Reveals That TNFAIP8 Is a New Biomarker of Cell Proliferation in Diabetic Retinopathy. <i>Journal of Proteome Research</i> , 2021, 20, 1770-1782.	3.7	11
70	Mechanism-Based Inactivation of Cytochrome P450 3A4 and 3A5 by the Fibroblast Growth Factor Receptor Inhibitor Erdafitinib. <i>Chemical Research in Toxicology</i> , 2021, 34, 1800-1813.	3.3	11
71	Mathematical models of amino acid panel for assisting diagnosis of children acute leukemia. <i>Journal of Translational Medicine</i> , 2019, 17, 38.	4.4	9
72	Mediators of Corneal Haze Following Implantation of Presbyopic Corneal Inlays. , 2019, 60, 868.		9

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73	The Isotope-Coded Affinity Tag Method for Quantitative Protein Profile Comparison and Relative Quantitation of Cysteine Redox Modifications. <i>Current Protocols in Protein Science</i> , 2015, 82, 23.2.1-23.2.19.	2.8	8
74	Machine learning to determine relative contribution of modifiable and non-modifiable risk factors of major eye diseases. <i>British Journal of Ophthalmology</i> , 2022, 106, 267-274.	3.9	8
75	A serum metabolomics study of patients with nAMD in response to anti-VEGF therapy. <i>Scientific Reports</i> , 2020, 10, 1341.	3.3	8
76	Increased Protein S-Glutathionylation in Leber's Hereditary Optic Neuropathy (LHON). <i>International Journal of Molecular Sciences</i> , 2020, 21, 3027.	4.1	8
77	Quantitative Proteomic Analysis of N-linked Glycoproteins in Human Tear Fluid. <i>Methods in Molecular Biology</i> , 2013, 951, 297-306.	0.9	7
78	Proteomics Profiling of Plasma Exosomes in VKH Patients. <i>Current Molecular Medicine</i> , 2021, 21, 675-689.	1.3	7
79	Comparison of fibrin glue and Vicryl sutures in conjunctival autografting for pterygium surgery. <i>Molecular Vision</i> , 2017, 23, 275-285.	1.1	7
80	Data on protein changes of chick vitreous during normal eye growth using data-independent acquisition (SWATH-MS). <i>Data in Brief</i> , 2020, 30, 105576.	1.0	6
81	SOX2 maintains the stemness of retinoblastoma stem-like cells through Hippo/YAP signaling pathway. <i>Experimental Eye Research</i> , 2022, 214, 108887.	2.6	6
82	Chromatographic identification of a biochemical alteration in the aqueous humour of megalophthalmic Black Moor goldfish. <i>Biomedical Applications</i> , 2001, 751, 349-355.	1.7	5
83	Prophylactic Vancomycin Drops Reduce the Severity of Early Bacterial Keratitis in Keratoprosthesis. <i>PLoS ONE</i> , 2015, 10, e0139653.	2.5	5
84	Lipidomics Analysis of the Tears in the Patients Receiving LASIK, FS-LASIK, or SBK Surgery. <i>Frontiers in Medicine</i> , 2021, 8, 731462.	2.6	5
85	A new method of high-speed cellular protein separation and insight into subcellular compartmentalization of proteins. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 767-775.	3.7	3
86	Lacrimal Gland, Ocular Surface, and Dry Eye. <i>Journal of Ophthalmology</i> , 2016, 2016, 1-2.	1.3	3
87	Elevation of Lactic Acid Concentration Associated with Megalophthalmia in Black Moor Goldfish. <i>Experimental Eye Research</i> , 2001, 73, 897-900.	2.6	2
88	Quantitative Proteomic Analysis of Retina in Oxygen-Induced Retinopathy Mice using iTRAQ with 2D NanoLC-nanoESI-MS/MS. <i>Journal of Integrated OMICS</i> , 2011, 1, .	0.5	1
89	Changes in Tear Proteome After Acupuncture Treatment in Dry Eye. <i>Clinical Ophthalmology</i> , 2021, Volume 15, 4585-4590.	1.8	1
90	Chemical Characterization of a New Carbohydrate Metabolite in the Vitreous of Black Moor Goldfish by Liquid Chromatography-Electrospray Mass Spectrometry and Nuclear Magnetic Resonance Spectroscopy, 2003, 17, 715-724.	0.8	0

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91	Defensins: Key Molecules in Ocular Surface Protection. <i>Current Immunology Reviews</i> , 2011, 7, 295-307.	1.2	0