Weiliang Huang

List of Publications by Year
in descending order

39	911	394421	501196
papers	citations	19 h-index	28 g-index

42	42	42	1556
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Extracellular Heme Uptake and the Challenge of Bacterial Cell Membranes. Annual Review of Biochemistry, 2017, 86, 799-823.	11.1	99
2	Directed evolution of cytochrome P450 enzymes for biocatalysis: exploiting the catalytic versatility of enzymes with relaxed substrate specificity. Biochemical Journal, 2015, 467, 1-15.	3.7	67
3	Noncoding dsRNA induces retinoic acid synthesis to stimulate hair follicle regeneration via TLR3. Nature Communications, 2019, 10, 2811.	12.8	64
4	Proteomic Analysis of the Pseudomonas aeruginosa Iron Starvation Response Reveals PrrF Small Regulatory RNA-Dependent Iron Regulation of Twitching Motility, Amino Acid Metabolism, and Zinc Homeostasis Proteins. Journal of Bacteriology, 2019, 201, .	2.2	54
5	PAMDB: a comprehensive Pseudomonas aeruginosa metabolome database. Nucleic Acids Research, 2018, 46, D575-D580.	14.5	45
6	Neutrophil microparticle production and inflammasome activation by hyperglycemia due to cytoskeletal instability. Journal of Biological Chemistry, 2017, 292, 18312-18324.	3.4	40
7	A rapid seamless method for gene knockout in Pseudomonas aeruginosa. BMC Microbiology, 2017, 17, 199.	3.3	39
8	Quantitative Whole-Cell Cytochrome P450 Measurement Suitable for High-Throughput Application. Journal of Biomolecular Screening, 2008, 13, 135-141.	2.6	36
9	A shuffled CYP2C library with a high degree of structural integrity and functional versatility. Archives of Biochemistry and Biophysics, 2007, 467, 193-205.	3.0	35
10	Iminoguanidines as Allosteric Inhibitors of the Iron-Regulated Heme Oxygenase (HemO) of Pseudomonas aeruginosa. Journal of Medicinal Chemistry, 2016, 59, 6929-6942.	6.4	33
11	Alterations in retinoic acid signaling affect the development of the mouse coronary vasculature. Developmental Dynamics, 2018, 247, 976-991.	1.8	33
12	Extending the diversity of cytochrome P450 enzymes by DNA family shuffling. Gene, 2007, 395, 40-48.	2.2	31
13	A Shuffled CYP1A Library Shows Both Structural Integrity and Functional Diversity. Drug Metabolism and Disposition, 2007, 35, 2177-2185.	3.3	28
14	Heme uptake and utilization by hypervirulent Acinetobacter baumannii LAC-4 is dependent on a canonical heme oxygenase (abHemO). Archives of Biochemistry and Biophysics, 2019, 672, 108066.	3.0	25
15	Post-transcriptional regulation of the Pseudomonas aeruginosa heme assimilation system (Has) fine-tunes extracellular heme sensing. Journal of Biological Chemistry, 2019, 294, 2771-5555.	3.4	24
16	Proteomic Evaluation of the Acute Radiation Syndrome of the Gastrointestinal Tract in a Murine Total-body Irradiation Model. Health Physics, 2019, 116, 516-528.	0.5	23
17	Acute Proteomic Changes in the Lung After WTLI in a Mouse Model: Identification of Potential Initiating Events for Delayed Effects of Acute Radiation Exposure. Health Physics, 2019, 116, 503-515.	0.5	23
18	Proteomic Evaluation of the Natural History of the Acute Radiation Syndrome of the Gastrointestinal Tract in a Non-human Primate Model of Partial-body Irradiation with Minimal Bone Marrow Sparing Includes Dysregulation of the Retinoid Pathway. Health Physics, 2020, 119, 604-620.	0.5	21

#	Article	IF	Citations
19	Proteomics of Non-human Primate Plasma after Partial-body Radiation with Minimal Bone Marrow Sparing. Health Physics, 2020, 119, 621-632.	0.5	20
20	Ligand-induced allostery in the interaction of the Pseudomonas aeruginosa heme binding protein with heme oxygenase. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3421-3426.	7.1	18
21	A large portion of the astrocyte proteome is dedicated to perivascular endfeet, including critical components of the electron transport chain. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 2546-2560.	4.3	14
22	ReX: A suite of computational tools for the design, visualization, and analysis of chimeric protein libraries. BioTechniques, 2016, 60, 91-94.	1.8	13
23	Engineering Thermostable CYP2D Enzymes for Biocatalysis Using Combinatorial Libraries of Ancestors for Directed Evolution (CLADE). ChemCatChem, 2019, 11, 841-850.	3.7	12
24	Rational evolution of the cofactorâ€binding site of cytochrome P450 reductase yields variants with increased activity towards specific cytochrome P450 enzymes. FEBS Journal, 2019, 286, 4473-4493.	4.7	12
25	The Functional Consequences of the Novel Ribosomal Pausing Site in SARS-CoV-2 Spike Glycoprotein RNA. International Journal of Molecular Sciences, 2021, 22, 6490.	4.1	12
26	The Human Innate Immune Protein Calprotectin Elicits a Multimetal Starvation Response in Pseudomonas aeruginosa. Microbiology Spectrum, 2021, 9, e0051921.	3.0	10
27	Acute Proteomic Changes in Lung after Radiation: Toward Identifying Initiating Events of Delayed Effects of Acute Radiation Exposure in Non-human Primate after Partial Body Irradiation with Minimal Bone Marrow Sparing. Health Physics, 2021, 121, 384-394.	0.5	10
28	Dysregulated retinoic acid signaling in airway smooth muscle cells in asthma. FASEB Journal, 2021, 35, e22016.	0.5	10
29	Static Growth Promotes PrrF and 2-Alkyl-4(1 H)-Quinolone Regulation of Type VI Secretion Protein Expression in Pseudomonas aeruginosa. Journal of Bacteriology, 2020, 202, .	2.2	9
30	Acute Proteomic Changes in Non-human Primate Kidney after Partial-body Radiation with Minimal Bone Marrow Sparing. Health Physics, 2021, 121, 345-351.	0.5	8
31	Multi-omic Analysis of Non-human Primate Heart after Partial-body Radiation with Minimal Bone Marrow Sparing. Health Physics, 2021, 121, 352-371.	0.5	8
32	Quantifying Kinase-Specific Phosphorylation Stoichiometry Using Stable Isotope Labeling In a Reverse In-Gel Kinase Assay. Analytical Chemistry, 2016, 88, 11468-11475.	6.5	6
33	The Asp99â€“Arg188 salt bridge of the Pseudomonas aeruginosa HemO is critical in allowing conformational flexibility during catalysis. Journal of Biological Inorganic Chemistry, 2018, 23, 1057-1070.	2.6	6
34	Mechanistic Analysis of an Extracellular Signalâ€“Regulated Kinase 2â€“Interacting Compound that Inhibits Mutant BRAF-Expressing Melanoma Cells by Inducing Oxidative Stress. Journal of Pharmacology and Experimental Therapeutics, 2021, 376, 84-97.	2.5	5
35	Effect of Radiation on the Essential Nutrient Homeostasis and Signaling of Retinoids in a Non-human Primate Model with Minimal Bone Marrow Sparing. Health Physics, 2021, 121, 406-418.	0.5	5
36	MAPLE: A Microbiome Analysis Pipeline Enabling Optimal Peptide Search and Comparative Taxonomic and Functional Analysis. Journal of Proteome Research, 2021, 20, 2882-2894.	3.7	4

#	Article	IF	Citations
37	Complementary Lipidomic, Proteomic, and Mass Spectrometry Imaging Approach to the Characterization of the Acute Effects of Radiation in the Non-human Primate Mesenteric Lymph Node after Partial-body Irradiation with Minimal Bone Marrow Sparing. Health Physics, 2021, 121, 372-383.	0.5	3
38	Role of cellular retinolâ€binding protein, type 1 and retinoid homeostasis in the adult mouse heart: A multiâ€omic approach. FASEB Journal, 2022, 36, e22242.	0.5	3
39	Understanding RNA Binding by the Nonclassical Zinc Finger Protein CPSF30, a Key Factor in Polyadenylation during Pre-mRNA Processing. Biochemistry, 2021, 60, 780-790.	2.5	2