

Weiliang Huang

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

911
citations

394421

19
h-index

501196

28
g-index

42
all docs

42
docs citations

42
times ranked

1556
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Role of cellular retinol-binding protein, type 1 and retinoid homeostasis in the adult mouse heart: A multi-omic approach. <i>FASEB Journal</i> , 2022, 36, e22242. | 0.5 | 3 |
| 2 | Mechanistic Analysis of an Extracellular Signal-Regulated Kinase 2-Interacting Compound that Inhibits Mutant BRAF-Expressing Melanoma Cells by Inducing Oxidative Stress. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2021, 376, 84-97. | 2.5 | 5 |
| 3 | Understanding RNA Binding by the Nonclassical Zinc Finger Protein CPSF30, a Key Factor in Polyadenylation during Pre-mRNA Processing. <i>Biochemistry</i> , 2021, 60, 780-790. | 2.5 | 2 |
| 4 | MAPLE: A Microbiome Analysis Pipeline Enabling Optimal Peptide Search and Comparative Taxonomic and Functional Analysis. <i>Journal of Proteome Research</i> , 2021, 20, 2882-2894. | 3.7 | 4 |
| 5 | A large portion of the astrocyte proteome is dedicated to perivascular endfeet, including critical components of the electron transport chain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 2546-2560. | 4.3 | 14 |
| 6 | The Functional Consequences of the Novel Ribosomal Pausing Site in SARS-CoV-2 Spike Glycoprotein RNA. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6490. | 4.1 | 12 |
| 7 | The Human Innate Immune Protein Calprotectin Elicits a Multimetal Starvation Response in <i>Pseudomonas aeruginosa</i> . <i>Microbiology Spectrum</i> , 2021, 9, e0051921. | 3.0 | 10 |
| 8 | 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. <i>Health Physics</i> , 2021, 121, 384-394. | 0.5 | 10 |
| 9 | 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. <i>Health Physics</i> , 2021, 121, 372-383. | 0.5 | 3 |
| 10 | Effect of Radiation on the Essential Nutrient Homeostasis and Signaling of Retinoids in a Non-human Primate Model with Minimal Bone Marrow Sparing. <i>Health Physics</i> , 2021, 121, 406-418. | 0.5 | 5 |
| 11 | Acute Proteomic Changes in Non-human Primate Kidney after Partial-body Radiation with Minimal Bone Marrow Sparing. <i>Health Physics</i> , 2021, 121, 345-351. | 0.5 | 8 |
| 12 | Multi-omic Analysis of Non-human Primate Heart after Partial-body Radiation with Minimal Bone Marrow Sparing. <i>Health Physics</i> , 2021, 121, 352-371. | 0.5 | 8 |
| 13 | Dysregulated retinoic acid signaling in airway smooth muscle cells in asthma. <i>FASEB Journal</i> , 2021, 35, e22016. | 0.5 | 10 |
| 14 | Static Growth Promotes PrrF and 2-Alkyl-4(1-Hydroxy)-Quinolone Regulation of Type VI Secretion Protein Expression in <i>Pseudomonas aeruginosa</i> . <i>Journal of Bacteriology</i> , 2020, 202, . | 2.2 | 9 |
| 15 | Proteomics of Non-human Primate Plasma after Partial-body Radiation with Minimal Bone Marrow Sparing. <i>Health Physics</i> , 2020, 119, 621-632. | 0.5 | 20 |
| 16 | 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. <i>Health Physics</i> , 2020, 119, 604-620. | 0.5 | 21 |
| 17 | Engineering Thermostable CYP2D Enzymes for Biocatalysis Using Combinatorial Libraries of Ancestors for Directed Evolution (CLADE). <i>ChemCatChem</i> , 2019, 11, 841-850. | 3.7 | 12 |
| 18 | Heme uptake and utilization by hypervirulent <i>Acinetobacter baumannii</i> LAC-4 is dependent on a canonical heme oxygenase (abHemO). <i>Archives of Biochemistry and Biophysics</i> , 2019, 672, 108066. | 3.0 | 25 |

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|----|---|------|-----------|
| 19 | Rational evolution of the cofactor-binding site of cytochrome P450 reductase yields variants with increased activity towards specific cytochrome P450 enzymes. <i>FEBS Journal</i> , 2019, 286, 4473-4493. | 4.7 | 12 |
| 20 | Noncoding dsRNA induces retinoic acid synthesis to stimulate hair follicle regeneration via TLR3. <i>Nature Communications</i> , 2019, 10, 2811. | 12.8 | 64 |
| 21 | Proteomic Analysis of the <i>Pseudomonas aeruginosa</i> Iron Starvation Response Reveals PrrF Small Regulatory RNA-Dependent Iron Regulation of Twitching Motility, Amino Acid Metabolism, and Zinc Homeostasis Proteins. <i>Journal of Bacteriology</i> , 2019, 201, . | 2.2 | 54 |
| 22 | Proteomic Evaluation of the Acute Radiation Syndrome of the Gastrointestinal Tract in a Murine Total-body Irradiation Model. <i>Health Physics</i> , 2019, 116, 516-528. | 0.5 | 23 |
| 23 | Acute Proteomic Changes in the Lung After WTLI in a Mouse Model: Identification of Potential Initiating Events for Delayed Effects of Acute Radiation Exposure. <i>Health Physics</i> , 2019, 116, 503-515. | 0.5 | 23 |
| 24 | Post-transcriptional regulation of the <i>Pseudomonas aeruginosa</i> heme assimilation system (Has) fine-tunes extracellular heme sensing. <i>Journal of Biological Chemistry</i> , 2019, 294, 2771-5555. | 3.4 | 24 |
| 25 | PAMDB: a comprehensive <i>Pseudomonas aeruginosa</i> metabolome database. <i>Nucleic Acids Research</i> , 2018, 46, D575-D580. | 14.5 | 45 |
| 26 | The Asp99-Arg188 salt bridge of the <i>Pseudomonas aeruginosa</i> HemO is critical in allowing conformational flexibility during catalysis. <i>Journal of Biological Inorganic Chemistry</i> , 2018, 23, 1057-1070. | 2.6 | 6 |
| 27 | Alterations in retinoic acid signaling affect the development of the mouse coronary vasculature. <i>Developmental Dynamics</i> , 2018, 247, 976-991. | 1.8 | 33 |
| 28 | Extracellular Heme Uptake and the Challenge of Bacterial Cell Membranes. <i>Annual Review of Biochemistry</i> , 2017, 86, 799-823. | 11.1 | 99 |
| 29 | Ligand-induced allostery in the interaction of the <i>Pseudomonas aeruginosa</i> heme binding protein with heme oxygenase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 3421-3426. | 7.1 | 18 |
| 30 | Neutrophil microparticle production and inflammasome activation by hyperglycemia due to cytoskeletal instability. <i>Journal of Biological Chemistry</i> , 2017, 292, 18312-18324. | 3.4 | 40 |
| 31 | A rapid seamless method for gene knockout in <i>Pseudomonas aeruginosa</i> . <i>BMC Microbiology</i> , 2017, 17, 199. | 3.3 | 39 |
| 32 | ReX: A suite of computational tools for the design, visualization, and analysis of chimeric protein libraries. <i>BioTechniques</i> , 2016, 60, 91-94. | 1.8 | 13 |
| 33 | Iminoguanidines as Allosteric Inhibitors of the Iron-Regulated Heme Oxygenase (HemO) of <i>Pseudomonas aeruginosa</i> . <i>Journal of Medicinal Chemistry</i> , 2016, 59, 6929-6942. | 6.4 | 33 |
| 34 | Quantifying Kinase-Specific Phosphorylation Stoichiometry Using Stable Isotope Labeling In a Reverse In-Gel Kinase Assay. <i>Analytical Chemistry</i> , 2016, 88, 11468-11475. | 6.5 | 6 |
| 35 | Directed evolution of cytochrome P450 enzymes for biocatalysis: exploiting the catalytic versatility of enzymes with relaxed substrate specificity. <i>Biochemical Journal</i> , 2015, 467, 1-15. | 3.7 | 67 |
| 36 | Quantitative Whole-Cell Cytochrome P450 Measurement Suitable for High-Throughput Application. <i>Journal of Biomolecular Screening</i> , 2008, 13, 135-141. | 2.6 | 36 |

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|----|--|-----|-----------|
| 37 | A Shuffled CYP1A Library Shows Both Structural Integrity and Functional Diversity. <i>Drug Metabolism and Disposition</i> , 2007, 35, 2177-2185. | 3.3 | 28 |
| 38 | A shuffled CYP2C library with a high degree of structural integrity and functional versatility. <i>Archives of Biochemistry and Biophysics</i> , 2007, 467, 193-205. | 3.0 | 35 |
| 39 | Extending the diversity of cytochrome P450 enzymes by DNA family shuffling. <i>Gene</i> , 2007, 395, 40-48. | 2.2 | 31 |