# Jau-Nian Chen

List of Publications by Year
in descending order



| 59 | 4,296 | 147726 | 182361 |
|---|---|---|---|
| papers | citations | 31 h-index | 51 g-index |

| 63 | 63 | 63 | 6147 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A High-Content Screen Identifies Drugs That Restrict Tumor Cell Extravasation across the Endothelial Barrier. Cancer Research, 2021, 81, 619-633. | 0.4 | 8 |
| 2 | Glutamate 73 Promotes Anti-arrhythmic Effects of Voltage-Dependent Anion Channel Through Regulation of Mitochondrial Ca2+ Uptake. Frontiers in Physiology, 2021, 12, 724828. | 1.3 | 4 |
| 3 | Mitochondrial Calcium Uniporter Deficiency in Zebrafish Causes Cardiomyopathy With Arrhythmia. Frontiers in Physiology, 2020, 11, 617492. | 1.3 | 14 |
| 4 | A Forward Genetic Screen Targeting the Endothelium Reveals a Regulatory Role for the Lipid Kinase Pi4ka in Myelo- and Erythropoiesis. Cell Reports, 2018, 22, 1211-1224. | 2.9 | 13 |
| 5 | Catalytic Enantioselective Synthesis of Guvacine Derivatives through [4 + 2] Annulations of Imines with Î±-Methylallenoates. Organic Letters, 2018, 20, 6089-6093. | 2.4 | 28 |
| 6 | Multiscale light-sheet for rapid imaging of cardiopulmonary system. JCI Insight, 2018, 3, . | 2.3 | 36 |
| 7 | Abstract 17251: Visualization of Neural Crest Cell Migration to the Dorsal Surface of Developing Zebrafish Myocardium. Circulation, 2018, 138, . | 1.6 | 1 |
| 8 | Tbx20 drives cardiac progenitor formation and cardiomyocyte proliferation in zebrafish. Developmental Biology, 2017, 421, 139-148. | 0.9 | 52 |
| 9 | The Calcineurin-FoxO-MuRF1 signaling pathway regulates myofibril integrity in cardiomyocytes. ELife, 2017, 6, . | 2.8 | 33 |
| 10 | Transcriptional Regulation of Heart Development in Zebrafish. Journal of Cardiovascular Development and Disease, 2016, 3, 14. | 0.8 | 25 |
| 11 | The Arrhythmogenic Calmodulin Mutation D129G Dysregulates Cell Growth, Calmodulin-dependent Kinase II Activity, and Cardiac Function in Zebrafish. Journal of Biological Chemistry, 2016, 291, 26636-26646. | 1.6 | 24 |
| 12 | Two developmentally distinct populations of neural crest cells contribute to the zebrafish heart. Developmental Biology, 2015, 404, 103-112. | 0.9 | 68 |
| 13 | RBFox1-mediated RNA splicing regulates cardiac hypertrophy and heart failure. Journal of Clinical Investigation, 2015, 126, 195-206. | 3.9 | 114 |
| 14 | Mitochondrial Ca2+ uptake by the voltage-dependent anion channel 2 regulates cardiac rhythmicity. ELife, 2015, 4, . | 2.8 | 67 |
| 15 | Abstract 15: Global RNA Splicing Regulation in Cardiac Maturation. Circulation Research, 2015, 117, . | 2.0 | 0 |
| 16 | High Resolution Structure and Double Electron-Electron Resonance of the Zebrafish Voltage-dependent Anion Channel 2 Reveal an Oligomeric Population. Journal of Biological Chemistry, 2014, 289, 12566-12577. | 1.6 | 116 |
| 17 | Regulation of Sufu activity by p66Î² and Mycbp provides new insight into vertebrate Hedgehog signaling. Genes and Development, 2014, 28, 2547-2563. | 2.7 | 42 |
| 18 | NADPH Oxidase 4 Induces Cardiac Arrhythmic Phenotype in Zebrafish. Journal of Biological Chemistry, 2014, 289, 23200-23208. | 1.6 | 23 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Systems proteomics of cardiac chromatin identifies nucleolin as a regulator of growth and cellular plasticity in cardiomyocytes. American Journal of Physiology - Heart and Circulatory Physiology, 2013, 305, H1624-H1638. | 1.5 | 31 |
| 20 | A dual role for Nucleolin identified by systems analysis of cardiac chromatin remodelers. FASEB Journal, 2013, 27, 1213.1. | 0.2 | 0 |
| 21 | Abstract 235: Global RNA Splicing and Regulation in Cardiac Maturation and Diseases. Circulation Research, 2013, 113, . | 2.0 | 0 |
| 22 | Scl Represses Cardiomyogenesis in Prospective Hemogenic Endothelium and Endocardium. Cell, 2012, 150, 590-605. | 13.5 | 142 |
| 23 | Regulation of Voltage-Dependent Anion Channel 2 at Glutamate 73 is Critical for its Role in Cardiac Calcium Handling. Biophysical Journal, 2012, 102, 312a. | 0.2 | 1 |
| 24 | Sodium pump activity in the yolk syncytial layer regulates zebrafish heart tube morphogenesis. Developmental Biology, 2012, 362, 263-270. | 0.9 | 13 |
| 25 | NADPH oxidase 4 induces cardiac arrhythmia in zebrafish through ROS. FASEB Journal, 2012, 26, 692.8. | 0.2 | 0 |
| 26 | In vivo screening of chromatin remodelers in zebrafish reveals proteins governing cardiac growth. FASEB Journal, 2012, 26, 1134.15. | 0.2 | 0 |
| 27 | The PAF1 complex differentially regulates cardiomyocyte specification. Developmental Biology, 2011, 353, 19-28. | 0.9 | 41 |
| 28 | Aplexone targets the HMG-CoA reductase pathway and differentially regulates arteriovenous angiogenesis. Development (Cambridge), 2011, 138, 1173-1181. | 1.2 | 59 |
| 29 | Mutation in utp15 Disrupts Vascular Patterning in a p53-Dependent Manner in Zebrafish Embryos. PLoS ONE, 2011, 6, e25013. | 1.1 | 8 |
| 30 | Evolving Cardiac Conduction Phenotypes in Developing Zebrafish Larvae: Implications to Drug Sensitivity. Zebrafish, 2010, 7, 325-331. | 0.5 | 24 |
| 31 | The PAF1 complex component Leo1 is essential for cardiac and neural crest development in zebrafish. Developmental Biology, 2010, 341, 167-175. | 0.9 | 49 |
| 32 | Regulation of Vertebrate Left-Right Axis Development by Calcium. , 2010, , 1885-1890. | | 0 |
| 33 | The dynein regulatory complex is required for ciliary motility and otolith biogenesis in the inner ear. Nature, 2009, 457, 205-209. | 13.7 | 110 |
| 34 | Fused has evolved divergent roles in vertebrate Hedgehog signalling and motile ciliogenesis. Nature, 2009, 459, 98-102. | 13.7 | 140 |
| 35 | Calcium signaling: A common thread in vertebrate leftâ€“right axis development. Developmental Dynamics, 2008, 237, 3491-3496. | 0.8 | 15 |
| 36 | Zebrafish as a model for cardiovascular development and disease. Drug Discovery Today: Disease Models, 2008, 5, 135-140. | 1.2 | 35 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Conformational changes of a Ca<sup>2+</sup>-binding domain of the Na<sup>+</sup>/Ca<sup>2+</sup>exchanger monitored by FRET in transgenic zebrafish heart. American Journal of Physiology - Cell Physiology, 2008, 295, C388-C393. | 2.1 | 24 |
| 38 | A novel mitochondrial matrix serine/threonine protein phosphatase regulates the mitochondria permeability transition pore and is essential for cellular survival and development. Genes and Development, 2007, 21, 784-796. | 2.7 | 125 |
| 39 | Na,K-ATPase Î±2 and Ncx4a regulate zebrafish left-right patterning. Development (Cambridge), 2007, 134, 1921-1930. | 1.2 | 47 |
| 40 | Involvement of zebrafish Na+,K+ ATPase in myocardial cell junction maintenance. Journal of Cell Biology, 2007, 176, 223-230. | 2.3 | 28 |
| 41 | A betaPix Pak2a signaling pathway regulates cerebral vascular stability in zebrafish. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13990-13995. | 3.3 | 107 |
| 42 | FoxH1 negatively modulates flk1 gene expression and vascular formation in zebrafish. Developmental Biology, 2007, 304, 735-744. | 0.9 | 203 |
| 43 | A Novel Mitochondrial Matrix Serine/Threonine Protein Phosphatase Is Essential to Cardiomyocyte Survival and Cardiac Function by Regulating Mitochondrial Permeability Transition. Journal of Cardiac Failure, 2006, 12, S42. | 0.7 | 0 |
| 44 | santa and valentine pattern concentric growth of cardiac myocardium in the zebrafish. Development (Cambridge), 2006, 133, 3139-3146. | 1.2 | 128 |
| 45 | NXT2 is required for embryonic heart development in zebrafish. BMC Developmental Biology, 2005, 5, 7. | 2.1 | 35 |
| 46 | Cellular and molecular analyses of vascular tube and lumen formation in zebrafish. Development (Cambridge), 2005, 132, 5199-5209. | 1.2 | 742 |
| 47 | Mutation in sodium-calcium exchanger 1 (NCX1) causes cardiac fibrillation in zebrafish. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 17699-17704. | 3.3 | 92 |
| 48 | Cardiogenesis and the Regulation of Cardiac-Specific Gene Expression. Heart Failure Clinics, 2005, 1, 157-170. | 1.0 | 4 |
| 49 | Genetic and cellular analyses of zebrafish atrioventricular cushion and valve development. Development (Cambridge), 2005, 132, 4193-4204. | 1.2 | 303 |
| 50 | heart of glass Regulates the Concentric Growth of the Heart in Zebrafish. Current Biology, 2003, 13, 2138-2147. | 1.8 | 224 |
| 51 | Rapid Analysis of Angiogenesis Drugs in a Live Fluorescent Zebrafish Assay. Arteriosclerosis, Thrombosis, and Vascular Biology, 2003, 23, 911-912. | 1.1 | 189 |
| 52 | Na,K-ATPase is essential for embryonic heart development in the zebrafish. Development (Cambridge), 2003, 130, 6165-6173. | 1.2 | 99 |
| 53 | Patterning of angiogenesis in the zebrafish embryo. Development (Cambridge), 2002, 129, 973-982. | 1.2 | 270 |
| 54 | Morphogenesis of Prechordal Plate and Notochord Requires Intact Eph/Ephrin B Signaling. Developmental Biology, 2001, 234, 470-482. | 0.9 | 70 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Genetic Steps to Organ Laterality in Zebrafish. Comparative and Functional Genomics, 2001, 2, 60-68. | 2.0 | 35 |
| 56 | Convergence of distinct pathways to heart patterning revealed by the small molecule concentramide and the mutation heart-and-soul. Current Biology, 2001, 11, 1481-1491. | 1.8 | 139 |
| 57 | Differential rescue of visceral and cardiac defects inDrosophilaby vertebratetinman-related genes. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 9366-9371. | 3.3 | 49 |
| 58 | Genetic dissection of heart development. , 1998, , 7-17. | | 0 |
| 59 | Bone morphogenetic protein-4 expression characterizes inductive boundaries in organs of developing zebrafish. Development Genes and Evolution, 1997, 207, 107-114. | 0.4 | 47 |