

Kai Jiao

List of Publications by Year in descending order

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103
papers

4,031
citations

109264

35
h-index

138417

58
g-index

108
all docs

108
docs citations

108
times ranked

5808
citing authors

#	ARTICLE	IF	CITATIONS
1	An essential role of Bmp4 in the atrioventricular septation of the mouse heart. <i>Genes and Development</i> , 2003, 17, 2362-2367.	2.7	322
2	Collagen intrafibrillar mineralization as a result of the balance between osmotic equilibrium and electroneutrality. <i>Nature Materials</i> , 2017, 16, 370-378.	13.3	210
3	Fgf8 is required for anterior heart field development. <i>Development (Cambridge)</i> , 2006, 133, 2435-2445.	1.2	195
4	Noradrenergic dysfunction in Alzheimer's disease. <i>Frontiers in Neuroscience</i> , 2015, 9, 220.	1.4	153
5	A review of the bioactivity of hydraulic calcium silicate cements. <i>Journal of Dentistry</i> , 2014, 42, 517-533.	1.7	152
6	Intrafibrillar silicified collagen scaffold modulates monocyte to promote cell homing, angiogenesis and bone regeneration. <i>Biomaterials</i> , 2017, 113, 203-216.	5.7	109
7	Subchondral bone loss following orthodontically induced cartilage degradation in the mandibular condyles of rats. <i>Bone</i> , 2011, 48, 362-371.	1.4	100
8	Disruption of PCP signaling causes limb morphogenesis and skeletal defects and may underlie Robinow syndrome and brachydactyly type B. <i>Human Molecular Genetics</i> , 2011, 20, 271-285.	1.4	97
9	Cardiomyocyte-Specific Deletion of the Coxsackievirus and Adenovirus Receptor Results in Hyperplasia of the Embryonic Left Ventricle and Abnormalities of Sinuatrial Valves. <i>Circulation Research</i> , 2006, 98, 923-930.	2.0	94
10	Microbe-Mediated Extracellular and Intracellular Mineralization: Environmental, Industrial, and Biotechnological Applications. <i>Advanced Materials</i> , 2020, 32, e1907833.	11.1	91
11	Tgfr ² signaling is required for atrioventricular cushion mesenchyme remodeling during in vivo cardiac development. <i>Development (Cambridge)</i> , 2006, 133, 4585-4593.	1.2	89
12	β -amyloid redirects norepinephrine signaling to activate the pathogenic GSK3 β /tau cascade. <i>Science Translational Medicine</i> , 2020, 12, .	5.8	86
13	MicroRNA-495-3p inhibits multidrug resistance by modulating autophagy through GRP78/mTOR axis in gastric cancer. <i>Cell Death and Disease</i> , 2018, 9, 1070.	2.7	80
14	Complementarity and Uncertainty in Intrafibrillar Mineralization of Collagen. <i>Advanced Functional Materials</i> , 2016, 26, 6858-6875.	7.8	79
15	Essential functions of Alk3 during AV cushion morphogenesis in mouse embryonic hearts. <i>Developmental Biology</i> , 2007, 301, 276-286.	0.9	78
16	Ectopic expression of Nkx2.5 suppresses the formation of the sinoatrial node in mice. <i>Developmental Biology</i> , 2011, 356, 359-369.	0.9	66
17	Complex Regulation of Mitochondrial Function During Cardiac Development. <i>Journal of the American Heart Association</i> , 2019, 8, e012731.	1.6	65
18	β -adrenergic receptor promotes amyloidogenesis through disrupting APP-SorLA interaction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 17296-17301.	3.3	63

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19	Dicer activity in neural crest cells is essential for craniofacial organogenesis and pharyngeal arch artery morphogenesis. <i>Mechanisms of Development</i> , 2011, 128, 200-207.	1.7	61
20	Myocardial Smad4 Is Essential for Cardiogenesis in Mouse Embryos. <i>Circulation Research</i> , 2007, 101, 277-285.	2.0	59
21	Epigenetic mechanisms underlying maternal diabetes-associated risk of congenital heart disease. <i>JCI Insight</i> , 2017, 2, .	2.3	59
22	Pathological mechanism of chondrocytes and the surrounding environment during osteoarthritis of temporomandibular joint. <i>Journal of Cellular and Molecular Medicine</i> , 2021, 25, 4902-4911.	1.6	54
23	Death and proliferation of chondrocytes in the degraded mandibular condylar cartilage of rats induced by experimentally created disordered occlusion. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2009, 14, 22-30.	2.2	51
24	Disruption of Smad4 in neural crest cells leads to mid-gestation death with pharyngeal arch, craniofacial and cardiac defects. <i>Developmental Biology</i> , 2008, 316, 417-430.	0.9	50
25	Î²2-adrenergic signal transduction plays a detrimental role in subchondral bone loss of temporomandibular joint in osteoarthritis. <i>Scientific Reports</i> , 2015, 5, 12593.	1.6	49
26	CHD7 interacts with BMP R-SMADs to epigenetically regulate cardiogenesis in mice. <i>Human Molecular Genetics</i> , 2014, 23, 2145-2156.	1.4	48
27	Biphasic silica/apatite co-mineralized collagen scaffolds stimulate osteogenesis and inhibit RANKL-mediated osteoclastogenesis. <i>Acta Biomaterialia</i> , 2015, 19, 23-32.	4.1	48
28	Vascular Smooth Muscle Cell <i>Smad4</i> Gene Is Important for Mouse Vascular Development. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2012, 32, 2171-2177.	1.1	45
29	The Identification of CD163 Expressing Phagocytic Chondrocytes in Joint Cartilage and Its Novel Scavenger Role in Cartilage Degradation. <i>PLoS ONE</i> , 2013, 8, e53312.	1.1	44
30	SIRT2 is involved in the modulation of depressive behaviors. <i>Scientific Reports</i> , 2015, 5, 8415.	1.6	44
31	Support for a Meiotic Recombination Initiation Complex: Interactions among Rec102p, Rec104p, and Spo11p. <i>Molecular and Cellular Biology</i> , 2003, 23, 5928-5938.	1.1	42
32	The Antidepressant Desipramine Is an Arrestin-biased Ligand at the Î±2A-Adrenergic Receptor Driving Receptor Down-regulation in Vitro and in Vivo. <i>Journal of Biological Chemistry</i> , 2011, 286, 36063-36075.	1.6	41
33	Identification of mZnf8, a Mouse Krüppel-Like Transcriptional Repressor, as a Novel Nuclear Interaction Partner of Smad1. <i>Molecular and Cellular Biology</i> , 2002, 22, 7633-7644.	1.1	39
34	Functions of miRNAs during Mammalian Heart Development. <i>International Journal of Molecular Sciences</i> , 2016, 17, 789.	1.8	39
35	Age- and sex-related changes of mandibular condylar cartilage and subchondral bone: A histomorphometric and micro-CT study in rats. <i>Archives of Oral Biology</i> , 2010, 55, 155-163.	0.8	37
36	Epitope-tagged Receptor Knock-in Mice Reveal That Differential Desensitization of Î±2-Adrenergic Responses Is because of Ligand-selective Internalization. <i>Journal of Biological Chemistry</i> , 2009, 284, 13233-13243.	1.6	33

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37	Neurabin Scaffolding of Adenosine Receptor and RGS4 Regulates Anti-Seizure Effect of Endogenous Adenosine. <i>Journal of Neuroscience</i> , 2012, 32, 2683-2695.	1.7	33
38	Activation of β 2A-adrenergic signal transduction in chondrocytes promotes degenerative remodelling of temporomandibular joint. <i>Scientific Reports</i> , 2016, 6, 30085.	1.6	33
39	MicroRNA-155, induced by FOXP3 through transcriptional repression of <i>BRCA1</i> , is associated with tumor initiation in human breast cancer. <i>Oncotarget</i> , 2017, 8, 41451-41464.	0.8	33
40	SEMA6D Expression and Patient Survival in Breast Invasive Carcinoma. <i>International Journal of Breast Cancer</i> , 2015, 2015, 1-10.	0.6	32
41	mTOR acts as a pivotal signaling hub for neural crest cells during craniofacial development. <i>PLoS Genetics</i> , 2018, 14, e1007491.	1.5	31
42	Pathological calcification in osteoarthritis: an outcome or a disease initiator?. <i>Biological Reviews</i> , 2020, 95, 960-985.	4.7	31
43	Matrix stiffening by self-mineralizable guided bone regeneration. <i>Acta Biomaterialia</i> , 2021, 125, 112-125.	4.1	31
44	Silicified collagen scaffold induces semaphorin 3A secretion by sensory nerves to improve in-situ bone regeneration. <i>Bioactive Materials</i> , 2022, 9, 475-490.	8.6	31
45	Intrafibrillar-silicified collagen scaffolds enhance the osteogenic capacity of human dental pulp stem cells. <i>Journal of Dentistry</i> , 2014, 42, 839-849.	1.7	30
46	Recombination and the Progression of Meiosis in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 1997, 146, 481-489.	1.2	30
47	Coordination of the Initiation of Recombination and the Reductional Division in Meiosis in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 1999, 152, 117-128.	1.2	30
48	Myocardial Mycn is essential for mouse ventricular wall morphogenesis. <i>Developmental Biology</i> , 2013, 373, 53-63.	0.9	28
49	CHD7 regulates cardiovascular development through ATP-dependent and -independent activities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 28847-28858.	3.3	27
50	Critical roles of miRNA-mediated regulation of TGF β signalling during mouse cardiogenesis. <i>Cardiovascular Research</i> , 2014, 103, 258-267.	1.8	26
51	Multifunctional Nanomachinery for Enhancement of Bone Healing. <i>Advanced Materials</i> , 2022, 34, e2107924.	11.1	25
52	Roles of plasma interleukin-6 and tumor necrosis factor- α and FFA and TG in the development of insulin resistance induced by high-fat diet. <i>Cytokine</i> , 2008, 42, 161-169.	1.4	24
53	The amyloid precursor protein modulates β 2A-adrenergic receptor endocytosis and signaling through disrupting arrestin 3 recruitment. <i>FASEB Journal</i> , 2017, 31, 4434-4446.	0.2	24
54	Polyphosphate-crosslinked collagen scaffolds for hemostasis and alveolar bone regeneration after tooth extraction. <i>Bioactive Materials</i> , 2022, 15, 68-81.	8.6	24

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55	Biomimetic Silicification of Demineralized Hierarchical Collagenous Tissues. <i>Biomacromolecules</i> , 2013, 14, 1661-1668.	2.6	23
56	<i>Sema6D</i> acts downstream of bone morphogenetic protein signalling to promote atrioventricular cushion development in mice. <i>Cardiovascular Research</i> , 2016, 112, 532-542.	1.8	20
57	Chromodomain Helicase DNA-Binding Protein 7 Is Suppressed in the Perinecrotic/Ischemic Microenvironment and Is a Novel Regulator of Glioblastoma Angiogenesis. <i>Stem Cells</i> , 2019, 37, 453-462.	1.4	20
58	Smart, Biomimetic Periosteum Created from the Cerium(III, IV) Oxide-Mineralized Eggshell Membrane. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 14103-14119.	4.0	20
59	Protein Kinase A Phosphorylation of Spinophilin Modulates Its Interaction with the β 2A-Adrenergic Receptor (AR) and Alters Temporal Properties of β 2AAR Internalization. <i>Journal of Biological Chemistry</i> , 2008, 283, 14516-14523.	1.6	19
60	Decreased bone marrow stromal cells activity involves in unilateral anterior crossbite-induced early subchondral bone loss of temporomandibular joints. <i>Archives of Oral Biology</i> , 2014, 59, 962-969.	0.8	18
61	Extracellular DNA: A Missing Link in the Pathogenesis of Ectopic Mineralization. <i>Advanced Science</i> , 2022, 9, e2103693.	5.6	18
62	Alternative splicing of T-box transcription factor genes. <i>Biochemical and Biophysical Research Communications</i> , 2011, 412, 513-517.	1.0	17
63	Cell autonomous requirement of endocardial <i>Smad4</i> during atrioventricular cushion development in mouse embryos. <i>Developmental Dynamics</i> , 2011, 240, 211-220.	0.8	17
64	Effects of a discoloration-resistant calcium aluminosilicate cement on the viability and proliferation of undifferentiated human dental pulp stem cells. <i>Scientific Reports</i> , 2015, 5, 17177.	1.6	17
65	Correlation of functional GRIN2A gene promoter polymorphisms with schizophrenia and serum d-serine levels. <i>Gene</i> , 2015, 568, 25-30.	1.0	17
66	Simultaneous Regeneration of Bone and Nerves Through Materials and Architectural Design: Are We There Yet?. <i>Advanced Functional Materials</i> , 2020, 30, 2003542.	7.8	17
67	Bonding of Resin Cement to Zirconia with High Pressure Primer Coating. <i>PLoS ONE</i> , 2014, 9, e101174.	1.1	16
68	Effect of luting cement and thermomechanical loading on retention of glass fibre posts in root canals. <i>Journal of Dentistry</i> , 2014, 42, 75-83.	1.7	16
69	Conditional deletion of <i>Adrb2</i> in mesenchymal stem cells attenuates osteoarthritis-like defects in temporomandibular joint. <i>Bone</i> , 2020, 133, 115229.	1.4	16
70	Autophagic LC3 ⁺ calcified extracellular vesicles initiate cartilage calcification in osteoarthritis. <i>Science Advances</i> , 2022, 8, eabn1556.	4.7	16
71	Intrafibrillar silicified collagen scaffold promotes in-situ bone regeneration by activating the monocyte p38 signaling pathway. <i>Acta Biomaterialia</i> , 2018, 67, 354-365.	4.1	15
72	Upregulation of mitochondrial dynamics is responsible for osteogenic differentiation of mesenchymal stem cells cultured on self-mineralized collagen membranes. <i>Acta Biomaterialia</i> , 2021, 136, 137-146.	4.1	15

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73	TUBB4A interacts with MYH9 to protect the nucleus during cell migration and promotes prostate cancer via GSK3 β -catenin signalling. <i>Nature Communications</i> , 2022, 13, 2792.	5.8	15
74	Mandibular condylar cartilage response to moving 2 molars in rats. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2010, 137, 460.e1-460.e8.	0.8	14
75	Revival of nitrogen-containing bisphosphonate-induced inhibition of osteoclastogenesis and osteoclast function by water-soluble microfibrinous borate glass. <i>Acta Biomaterialia</i> , 2016, 31, 312-325.	4.1	14
76	Role of Semaphorin Signaling During Cardiovascular Development. <i>Journal of the American Heart Association</i> , 2018, 7, .	1.6	14
77	SEMA6D regulates perinatal cardiomyocyte proliferation and maturation in mice. <i>Developmental Biology</i> , 2019, 452, 1-7.	0.9	14
78	Characterization of the novel interaction between muskelin and TBX20, a critical cardiogenic transcription factor. <i>Biochemical and Biophysical Research Communications</i> , 2011, 409, 338-343.	1.0	12
79	Tunicamycin promotes metastasis through upregulating endoplasmic reticulum stress induced GRP78 expression in thyroid carcinoma. <i>Cell and Bioscience</i> , 2020, 10, 115.	2.1	12
80	Phylogenetic footprinting reveals multiple regulatory elements involved in control of the meiotic recombination gene, REC102. <i>Yeast</i> , 2002, 19, 99-114.	0.8	11
81	Mineralogenic characteristics of osteogenic lineage-committed human dental pulp stem cells following their exposure to a discoloration-free calcium aluminosilicate cement. <i>Dental Materials</i> , 2016, 32, 1235-1247.	1.6	11
82	Sertad1 encodes a novel transcriptional co-activator of SMAD1 in mouse embryonic hearts. <i>Biochemical and Biophysical Research Communications</i> , 2013, 441, 751-756.	1.0	10
83	Cross-talk from β -Adrenergic Receptors Modulates α 2A-Adrenergic Receptor Endocytosis in Sympathetic Neurons via Protein Kinase A and Spinophilin. <i>Journal of Biological Chemistry</i> , 2013, 288, 29193-29205.	1.6	10
84	Difficult and complicated oral ulceration: an expert consensus guideline for diagnosis. <i>International Journal of Oral Science</i> , 2022, 14, .	3.6	10
85	Pdgfrb is a direct regulatory target of TGF β 2 signaling in atrioventricular cushion mesenchymal cells. <i>PLoS ONE</i> , 2017, 12, e0175791.	1.1	9
86	Inactivation of β 4 from the β 1 Expression Domain Causes Abnormal Pharyngeal Arch Artery and Cardiac Outflow Tract Remodeling. <i>Cells Tissues Organs</i> , 2011, 193, 393-403.	1.3	7
87	The Janus Nature of Nanohydroxyapatite in Tumor Progression. <i>Advanced Functional Materials</i> , 2022, 32, 2107599.	7.8	7
88	Collagen Mineralization: Complementarity and Uncertainty in Intrafibrillar Mineralization of Collagen (<i>Adv. Funct. Mater.</i> 38/2016). <i>Advanced Functional Materials</i> , 2016, 26, 6850-6850.	7.8	6
89	Epigenetic Regulation of Cardiac Neural Crest Cells. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 678954.	1.8	6
90	Interaction of Neurovascular Signals in the Degraded Condylar Cartilage. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 901749.	2.0	4

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91	A peptide blocking the ADORA1-neurabin interaction is anticonvulsant and inhibits epilepsy in an Alzheimer's model. JCI Insight, 2022, 7, .	2.3	4
92	Caries-resistant bonding layer in dentin. Scientific Reports, 2016, 6, 32740.	1.6	3
93	Diverse arrestin-recruiting and endocytic profiles of tricyclic antipsychotics acting as direct α_2A adrenergic receptor ligands. Neuropharmacology, 2017, 116, 38-49.	2.0	3
94	Early growth response 1 reduction in peripheral blood involving condylar subchondral bone loss. Oral Diseases, 2019, 25, 1759-1768.	1.5	3
95	Effective Attenuation of Adenosine A1R Signaling by Neurabin Requires Oligomerization of Neurabin. Molecular Pharmacology, 2017, 92, 630-639.	1.0	2
96	mTOR deletion in neural crest cells disrupts cardiac outflow tract remodeling and causes a spectrum of cardiac defects through the mTORC1 pathway. Developmental Biology, 2021, 477, 241-250.	0.9	2
97	Drp1 regulates transcription of ribosomal protein genes in embryonic hearts. Journal of Cell Science, 2022, 135, .	1.2	1
98	Multifunctional Nanomachinery for Enhancement of Bone Healing (Adv. Mater. 9/2022). Advanced Materials, 2022, 34, .	11.1	1
99	Spinophilin Is Indispensable for the α_2B Adrenergic Receptor-Elicited Hypertensive Response. PLoS ONE, 2015, 10, e0135030.	1.1	0
100	Critical Functions of TGFbeta Signaling during Atrioventricular Cushion Remodeling. FASEB Journal, 2006, 20, A226.	0.2	0
101	PKA PHOSPHORYLATION OF SPINOPHILIN MODULATES ITS INTERACTION WITH THE α_2AAR AND ALTERS TEMPORAL PROPERTIES OF α_2AAR INTERNALIZATION. FASEB Journal, 2009, 23, 944.6.	0.2	0
102	Neurabin scaffolding of adenosine receptor and RGS4 regulates anti-seizure effect of endogenous adenosine. FASEB Journal, 2012, 26, 838.4.	0.2	0
103	Tricyclic psychiatric medications as α_2A adrenergic receptor ligands modulating receptor function. FASEB Journal, 2012, 26, 1045.11.	0.2	0