Kai Jiao

List of Publications by Year
in descending order

103	4,031	109264	138417
papers	citations	35 h-index	58 g-index

108	108	108	5808
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Silicified collagen scaffold induces semaphorin 3A secretion by sensory nerves to improve in-situ bone regeneration. Bioactive Materials, 2022, 9, 475-490.	8.6	31
2	The Janus Nature of Nanohydroxyapatite in Tumor Progression. Advanced Functional Materials, 2022, 32, 2107599.	7.8	7
3	Multifunctional Nanomachinery for Enhancement of Bone Healing. Advanced Materials, 2022, 34, e2107924.	11.1	25
4	Drp1 regulates transcription of ribosomal protein genes in embryonic hearts. Journal of Cell Science, 2022, 135, .	1.2	1
5	Multifunctional Nanomachinery for Enhancement of Bone Healing (Adv. Mater. 9/2022). Advanced Materials, 2022, 34, .	11.1	1
6	Smart, Biomimetic Periosteum Created from the Cerium(III, IV) Oxide-Mineralized Eggshell Membrane. ACS Applied Materials & Interfaces, 2022, 14, 14103-14119.	4.0	20
7	Polyphosphate-crosslinked collagen scaffolds for hemostasis and alveolar bone regeneration after tooth extraction. Bioactive Materials, 2022, 15, 68-81.	8.6	24
8	Extracellular DNA: A Missing Link in the Pathogenesis of Ectopic Mineralization. Advanced Science, 2022, 9, e2103693.	5.6	18
9	Interaction of Neurovascular Signals in the Degraded Condylar Cartilage. Frontiers in Bioengineering and Biotechnology, 2022, 10, 901749.	2.0	4
10	Autophagic LC3 ⁺ calcified extracellular vesicles initiate cartilage calcification in osteoarthritis. Science Advances, 2022, 8, eabn1556.	4.7	16
11	TUBB4A interacts with MYH9 to protect the nucleus during cell migration and promotes prostate cancer via GSK3Î²/Î²-catenin signalling. Nature Communications, 2022, 13, 2792.	5.8	15
12	Difficult and complicated oral ulceration: an expert consensus guideline for diagnosis. International Journal of Oral Science, 2022, 14, .	3.6	10
13	A peptide blocking the ADORA1-neurabin interaction is anticonvulsant and inhibits epilepsy in an Alzheimerâ€™s model. JCI Insight, 2022, 7, .	2.3	4
14	Epigenetic Regulation of Cardiac Neural Crest Cells. Frontiers in Cell and Developmental Biology, 2021, 9, 678954.	1.8	6
15	Matrix stiffening by self-mineralizable guided bone regeneration. Acta Biomaterialia, 2021, 125, 112-125.	4.1	31
16	Pathological mechanism of chondrocytes and the surrounding environment during osteoarthritis of temporomandibular joint. Journal of Cellular and Molecular Medicine, 2021, 25, 4902-4911.	1.6	54
17	Upregulation of mitochondrial dynamics is responsible for osteogenic differentiation of mesenchymal stem cells cultured on self-mineralized collagen membranes. Acta Biomaterialia, 2021, 136, 137-146.	4.1	15
18	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

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19	Tunicamycin promotes metastasis through upregulating endoplasmic reticulum stress induced GRP78 expression in thyroid carcinoma. Cell and Bioscience, 2020, 10, 115.	2.1	12
20	CHD7 regulates cardiovascular development through ATP-dependent and -independent activities. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 28847-28858.	3.3	27
21	Simultaneous Regeneration of Bone and Nerves Through Materials and Architectural Design: Are We There Yet?. Advanced Functional Materials, 2020, 30, 2003542.	7.8	17
22	Pathological calcification in osteoarthritis: an outcome or a disease initiator?. Biological Reviews, 2020, 95, 960-985.	4.7	31
23	Î²-amyloid redirects norepinephrine signaling to activate the pathogenic GSK3Î²/tau cascade. Science Translational Medicine, 2020, 12, .	5.8	86
24	Conditional deletion of Adrb2 in mesenchymal stem cells attenuates osteoarthritis-like defects in temporomandibular joint. Bone, 2020, 133, 115229.	1.4	16
25	Microbeâ€Mediated Extracellular and Intracellular Mineralization: Environmental, Industrial, and Biotechnological Applications. Advanced Materials, 2020, 32, e1907833.	11.1	91
26	Early growth response 1 reduction in peripheral blood involving condylar subchondral bone loss. Oral Diseases, 2019, 25, 1759-1768.	1.5	3
27	Chromodomain Helicase DNA-Binding Protein 7 Is Suppressed in the Perinecrotic/Ischemic Microenvironment and Is a Novel Regulator of Glioblastoma Angiogenesis. Stem Cells, 2019, 37, 453-462.	1.4	20
28	Complex Regulation of Mitochondrial Function During Cardiac Development. Journal of the American Heart Association, 2019, 8, e012731.	1.6	65
29	SEMA6D regulates perinatal cardiomyocyte proliferation and maturation in mice. Developmental Biology, 2019, 452, 1-7.	0.9	14
30	Intrafibrillar silicified collagen scaffold promotes in-situ bone regeneration by activating the monocyte p38 signaling pathway. Acta Biomaterialia, 2018, 67, 354-365.	4.1	15
31	MicroRNA-495-3p inhibits multidrug resistance by modulating autophagy through GRP78/mTOR axis in gastric cancer. Cell Death and Disease, 2018, 9, 1070.	2.7	80
32	Role of Semaphorin Signaling During Cardiovascular Development. Journal of the American Heart Association, 2018, 7, .	1.6	14
33	mTOR acts as a pivotal signaling hub for neural crest cells during craniofacial development. PLoS Genetics, 2018, 14, e1007491.	1.5	31
34	Diverse arrestin-recruiting and endocytic profiles of tricyclic antipsychotics acting as direct Î± 2A adrenergic receptor ligands. Neuropharmacology, 2017, 116, 38-49.	2.0	3
35	Effective Attenuation of Adenosine A1R Signaling by Neurabin Requires Oligomerization of Neurabin. Molecular Pharmacology, 2017, 92, 630-639.	1.0	2
36	The amyloid precursor protein modulates Î± _{2A} â€adrenergic receptor endocytosis and signaling through disrupting arrestin 3 recruitment. FASEB Journal, 2017, 31, 4434-4446.	0.2	24

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37	Intrafibrillar silicified collagen scaffold modulates monocyte to promote cell homing, angiogenesis and bone regeneration. Biomaterials, 2017, 113, 203-216.	5.7	109
38	Collagen intrafibrillar mineralization as a result of the balance between osmotic equilibrium and electroneutrality. Nature Materials, 2017, 16, 370-378.	13.3	210
39	Epigenetic mechanisms underlying maternal diabetes-associated risk of congenital heart disease. JCI Insight, 2017, 2, .	2.3	59
40	Pdgfrb is a direct regulatory target of TGFÎ² signaling in atrioventricular cushion mesenchymal cells. PLoS ONE, 2017, 12, e0175791.	1.1	9
41	MicroRNA-155, induced by FOXP3 through transcriptional repression of BRCA1, is associated with tumor initiation in human breast cancer. Oncotarget, 2017, 8, 41451-41464.	0.8	33
42	Functions of miRNAs during Mammalian Heart Development. International Journal of Molecular Sciences, 2016, 17, 789.	1.8	39
43	Activation of Î±2A-adrenergic signal transduction in chondrocytes promotes degenerative remodelling of temporomandibular joint. Scientific Reports, 2016, 6, 30085.	1.6	33
44	Sema6Dacts downstream of bone morphogenetic protein signalling to promote atrioventricular cushion development in mice. Cardiovascular Research, 2016, 112, 532-542.	1.8	20
45	Mineralogenic characteristics of osteogenic lineage-committed human dental pulp stem cells following their exposure to a discoloration-free calcium aluminosilicate cement. Dental Materials, 2016, 32, 1235-1247.	1.6	11
46	Complementarity and Uncertainty in Intrafibrillar Mineralization of Collagen. Advanced Functional Materials, 2016, 26, 6858-6875.	7.8	79
47	Collagen Mineralization: Complementarity and Uncertainty in Intrafibrillar Mineralization of Collagen (Adv. Funct. Mater. 38/2016). Advanced Functional Materials, 2016, 26, 6850-6850.	7.8	6
48	Caries-resistant bonding layer in dentin. Scientific Reports, 2016, 6, 32740.	1.6	3
49	Revival of nitrogen-containing bisphosphonate-induced inhibition of osteoclastogenesis and osteoclast function by water-soluble microfibrous borate glass. Acta Biomaterialia, 2016, 31, 312-325.	4.1	14
50	Effects of a discoloration-resistant calcium aluminosilicate cement on the viability and proliferation of undifferentiated human dental pulp stem cells. Scientific Reports, 2015, 5, 17177.	1.6	17
51	Î²2-adrenergic signal transduction plays a detrimental role in subchondral bone loss of temporomandibular joint in osteoarthritis. Scientific Reports, 2015, 5, 12593.	1.6	49
52	SIRT2 is involved in the modulation of depressive behaviors. Scientific Reports, 2015, 5, 8415.	1.6	44
53	Noradrenergic dysfunction in Alzheimer's disease. Frontiers in Neuroscience, 2015, 9, 220.	1.4	153
54	Spinophilin Is Indispensable for the Î±2B Adrenergic Receptor-Elicited Hypertensive Response. PLoS ONE, 2015, 10, e0135030.	1.1	0

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55	SEMA6D Expression and Patient Survival in Breast Invasive Carcinoma. International Journal of Breast Cancer, 2015, 2015, 1-10.	0.6	32
56	Correlation of functional GRIN2A gene promoter polymorphisms with schizophrenia and serum d-serine levels. Gene, 2015, 568, 25-30.	1.0	17
57	Biphasic silica/apatite co-mineralized collagen scaffolds stimulate osteogenesis and inhibit RANKL-mediated osteoclastogenesis. Acta Biomaterialia, 2015, 19, 23-32.	4.1	48
58	Bonding of Resin Cement to Zirconia with High Pressure Primer Coating. PLoS ONE, 2014, 9, e101174.	1.1	16
59	Î± _{2A} adrenergic receptor promotes amyloidogenesis through disrupting APP-SorLA interaction. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17296-17301.	3.3	63
60	Critical roles of miRNA-mediated regulation of TGFÂ signalling during mouse cardiogenesis. Cardiovascular Research, 2014, 103, 258-267.	1.8	26
61	A review of the bioactivity of hydraulic calcium silicate cements. Journal of Dentistry, 2014, 42, 517-533.	1.7	152
62	CHD7 interacts with BMP R-SMADs to epigenetically regulate cardiogenesis in mice. Human Molecular Genetics, 2014, 23, 2145-2156.	1.4	48
63	Effect of luting cement and thermomechanical loading on retention of glass fibre posts in root canals. Journal of Dentistry, 2014, 42, 75-83.	1.7	16
64	Intrafibrillar-silicified collagen scaffolds enhance the osteogenic capacity of human dental pulp stem cells. Journal of Dentistry, 2014, 42, 839-849.	1.7	30
65	Decreased bone marrow stromal cells activity involves in unilateral anterior crossbite-induced early subchondral bone loss of temporomandibular joints. Archives of Oral Biology, 2014, 59, 962-969.	0.8	18
66	Sertad1 encodes a novel transcriptional co-activator of SMAD1 in mouse embryonic hearts. Biochemical and Biophysical Research Communications, 2013, 441, 751-756.	1.0	10
67	Myocardial Mycn is essential for mouse ventricular wall morphogenesis. Developmental Biology, 2013, 373, 53-63.	0.9	28
68	Biomimetic Silicification of Demineralized Hierarchical Collagenous Tissues. Biomacromolecules, 2013, 14, 1661-1668.	2.6	23
69	Cross-talk from Î²-Adrenergic Receptors Modulates Î±2A-Adrenergic Receptor Endocytosis in Sympathetic Neurons via Protein Kinase A and Spinophilin. Journal of Biological Chemistry, 2013, 288, 29193-29205.	1.6	10
70	The Identification of CD163 Expressing Phagocytic Chondrocytes in Joint Cartilage and Its Novel Scavenger Role in Cartilage Degradation. PLoS ONE, 2013, 8, e53312.	1.1	44
71	Neurabin Scaffolding of Adenosine Receptor and RGS4 Regulates Anti-Seizure Effect of Endogenous Adenosine. Journal of Neuroscience, 2012, 32, 2683-2695.	1.7	33
72	Vascular Smooth Muscle Cell Smad4 Gene Is Important for Mouse Vascular Development. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, 2171-2177.	1.1	45

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73	Neurabin scaffolding of adenosine receptor and RGS4 regulates antiâ€seizure effect of endogenous adenosine. FASEB Journal, 2012, 26, 838.4.	0.2	0
74	Tricyclic psychiatric medications as alpha2A adrenergic receptor ligands modulating receptor function. FASEB Journal, 2012, 26, 1045.11.	0.2	0
75	Dicer activity in neural crest cells is essential for craniofacial organogenesis and pharyngeal arch artery morphogenesis. Mechanisms of Development, 2011, 128, 200-207.	1.7	61
76	Subchondral bone loss following orthodontically induced cartilage degradation in the mandibular condyles of rats. Bone, 2011, 48, 362-371.	1.4	100
77	Characterization of the novel interaction between muskelin and TBX20, a critical cardiogenic transcription factor. Biochemical and Biophysical Research Communications, 2011, 409, 338-343.	1.0	12
78	Alternative splicing of T-box transcription factor genes. Biochemical and Biophysical Research Communications, 2011, 412, 513-517.	1.0	17
79	Ectopic expression of Nkx2.5 suppresses the formation of the sinoatrial node in mice. Developmental Biology, 2011, 356, 359-369.	0.9	66
80	Cell autonomous requirement of endocardial Smad4 during atrioventricular cushion development in mouse embryos. Developmental Dynamics, 2011, 240, 211-220.	0.8	17
81	Disruption of PCP signaling causes limb morphogenesis and skeletal defects and may underlie Robinow syndrome and brachydactyly type B. Human Molecular Genetics, 2011, 20, 271-285.	1.4	97
82	Inactivation of <i>Bmp4 </i>from the <i>Tbx1 </i>Expression Domain Causes Abnormal Pharyngeal Arch Artery and Cardiac Outflow Tract Remodeling. Cells Tissues Organs, 2011, 193, 393-403.	1.3	7
83	The Antidepressant Desipramine Is an Arrestin-biased Ligand at the Î±2A-Adrenergic Receptor Driving Receptor Down-regulation in Vitro and in Vivo. Journal of Biological Chemistry, 2011, 286, 36063-36075.	1.6	41
84	Mandibular condylar cartilage response to moving 2 molars in rats. American Journal of Orthodontics and Dentofacial Orthopedics, 2010, 137, 460.e1-460.e8.	0.8	14
85	Age- and sex-related changes of mandibular condylar cartilage and subchondral bone: A histomorphometric and micro-CT study in rats. Archives of Oral Biology, 2010, 55, 155-163.	0.8	37
86	Epitope-tagged Receptor Knock-in Mice Reveal That Differential Desensitization of Î±2-Adrenergic Responses Is because of Ligand-selective Internalization. Journal of Biological Chemistry, 2009, 284, 13233-13243.	1.6	33
87	Death and proliferation of chondrocytes in the degraded mandibular condylar cartilage of rats induced by experimentally created disordered occlusion. Apoptosis: an International Journal on Programmed Cell Death, 2009, 14, 22-30.	2.2	51
88	PKA PHOSPHORYLATION OF SPINOPHILIN MODULATES ITS INTERACTION WITH THE alpha2AAR AND ALTERS TEMPORAL PROPERTIES OF alpha2AAR INTERNALIZATION. FASEB Journal, 2009, 23, 944.6.	0.2	0
89	Disruption of Smad4 in neural crest cells leads to mid-gestation death with pharyngeal arch, craniofacial and cardiac defects. Developmental Biology, 2008, 316, 417-430.	0.9	50
90	Roles of plasma interleukin-6 and tumor necrosis factor-Î± and FFA and TG in the development of insulin resistance induced by high-fat diet. Cytokine, 2008, 42, 161-169.	1.4	24

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91	Protein Kinase A Phosphorylation of Spinophilin Modulates Its Interaction with the Î±2A-Adrenergic Receptor (AR) and Alters Temporal Properties of Î±2AAR Internalization. Journal of Biological Chemistry, 2008, 283, 14516-14523.	1.6	19
92	Myocardial Smad4 Is Essential for Cardiogenesis in Mouse Embryos. Circulation Research, 2007, 101, 277-285.	2.0	59
93	Essential functions of Alk3 during AV cushion morphogenesis in mouse embryonic hearts. Developmental Biology, 2007, 301, 276-286.	0.9	78
94	TgfÎ² signaling is required for atrioventricular cushion mesenchyme remodeling during in vivo cardiac development. Development (Cambridge), 2006, 133, 4585-4593.	1.2	89
95	Cardiomyocyte-Specific Deletion of the Coxsackievirus and Adenovirus Receptor Results in Hyperplasia of the Embryonic Left Ventricle and Abnormalities of Sinuatrial Valves. Circulation Research, 2006, 98, 923-930.	2.0	94
96	Fgf8 is required for anterior heart field development. Development (Cambridge), 2006, 133, 2435-2445.	1.2	195
97	Critical Functions of TGFbeta Signaling during Atrioventricular Cushion Remodeling. FASEB Journal, 2006, 20, A226.	0.2	0
98	Support for a Meiotic Recombination Initiation Complex: Interactions among Rec102p, Rec104p, and Spo11p. Molecular and Cellular Biology, 2003, 23, 5928-5938.	1.1	42
99	An essential role of Bmp4 in the atrioventricular septation of the mouse heart. Genes and Development, 2003, 17, 2362-2367.	2.7	322
100	Identification of mZnf8, a Mouse Kruˆppel-Like Transcriptional Repressor, as a Novel Nuclear Interaction Partner of Smad1. Molecular and Cellular Biology, 2002, 22, 7633-7644.	1.1	39
101	Phylogenetic footprinting reveals multiple regulatory elements involved in control of the meiotic recombination gene,REC102. Yeast, 2002, 19, 99-114.	0.8	11
102	Coordination of the Initiation of Recombination and the Reductional Division in Meiosis in Saccharomyces cerevisiae. Genetics, 1999, 152, 117-128.	1.2	30
103	Recombination and the Progression of Meiosis in Saccharomyces cerevisiae. Genetics, 1997, 146, 481-489.	1.2	30