

Kun Zhang

List of Publications by Year in descending order

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109
papers

3,607
citations

201674

27
h-index

175258

52
g-index

129
all docs

129
docs citations

129
times ranked

5995
citing authors

#	ARTICLE	IF	CITATIONS
1	High-throughput sequencing of the transcriptome and chromatin accessibility in the same cell. <i>Nature Biotechnology</i> , 2019, 37, 1452-1457.	17.5	550
2	Air quality changes during the COVID-19 lockdown over the Yangtze River Delta Region: An insight into the impact of human activity pattern changes on air pollution variation. <i>Science of the Total Environment</i> , 2020, 732, 139282.	8.0	405
3	Characterizing transcriptional heterogeneity through pathway and gene set overdispersion analysis. <i>Nature Methods</i> , 2016, 13, 241-244.	19.0	356
4	A comparative strategy for single-nucleus and single-cell transcriptomes confirms accuracy in predicted cell-type expression from nuclear RNA. <i>Scientific Reports</i> , 2017, 7, 6031.	3.3	209
5	Tools for the analysis of high-dimensional single-cell RNA sequencing data. <i>Nature Reviews Nephrology</i> , 2020, 16, 408-421.	9.6	80
6	Tranexamic acid reduces hidden blood loss in the treatment of intertrochanteric fractures with PFNA: a single-center randomized controlled trial. <i>Journal of Orthopaedic Surgery and Research</i> , 2017, 12, 124.	2.3	68
7	Visualizing and Interpreting Single-Cell Gene Expression Datasets with Similarity Weighted Nonnegative Embedding. <i>Cell Systems</i> , 2018, 7, 656-666.e4.	6.2	63
8	PB2-E627K and PA-T97I substitutions enhance polymerase activity and confer a virulent phenotype to an H6N1 avian influenza virus in mice. <i>Virology</i> , 2014, 468-470, 207-213.	2.4	62
9	Domestic cats and dogs are susceptible to H9N2 avian influenza virus. <i>Virus Research</i> , 2013, 175, 52-57.	2.2	57
10	LncRNA SNHG1 alleviates IL-1 β -induced osteoarthritis by inhibiting miR-16-5p-mediated p38 MAPK and NF- κ B signaling pathways. <i>Bioscience Reports</i> , 2019, 39, .	2.4	56
11	Conserved Herpesvirus Protein Kinases Target SAMHD1 to Facilitate Virus Replication. <i>Cell Reports</i> , 2019, 28, 449-459.e5.	6.4	55
12	The impact of volatile organic compounds on ozone formation in the suburban area of Shanghai. <i>Atmospheric Environment</i> , 2020, 232, 117511.	4.1	53
13	Phosphoproteomic Profiling Reveals Epstein-Barr Virus Protein Kinase Integration of DNA Damage Response and Mitotic Signaling. <i>PLoS Pathogens</i> , 2015, 11, e1005346.	4.7	53
14	Vertical distribution of ozone over Shanghai during late spring: A balloon-borne observation. <i>Atmospheric Environment</i> , 2019, 208, 48-60.	4.1	47
15	Recommendations on benchmarks for numerical air quality model applications in China – Part 1: PM _{2.5} and chemical species. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 2725-2743.	4.9	47
16	Interferon regulatory factor 8 regulates caspase-1 expression to facilitate Epstein-Barr virus reactivation in response to B cell receptor stimulation and chemical induction. <i>PLoS Pathogens</i> , 2018, 14, e1006868.	4.7	45
17	Incidence and Risk Factors of Deep Vein Thrombosis in Patients With Pelvic and Acetabular Fractures. <i>Clinical and Applied Thrombosis/Hemostasis</i> , 2019, 25, 107602961984506.	1.7	45
18	Vertical distribution of volatile organic compounds within the lower troposphere in late spring of Shanghai. <i>Atmospheric Environment</i> , 2018, 186, 150-157.	4.1	42

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19	Perioperative incidence and locations of deep vein thrombosis following specific isolated lower extremity fractures. <i>Injury</i> , 2018, 49, 1353-1357.	1.7	42
20	Tethered balloon-based particle number concentration, and size distribution vertical profiles within the lower troposphere of Shanghai. <i>Atmospheric Environment</i> , 2017, 154, 141-150.	4.1	40
21	Individual exposure of graduate students to PM _{2.5} and black carbon in Shanghai, China. <i>Environmental Science and Pollution Research</i> , 2016, 23, 12120-12127.	5.3	39
22	Source apportionment of PM _{2.5} in Shanghai based on hourly organic molecular markers and other source tracers. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 12047-12061.	4.9	39
23	Lowly pathogenic avian influenza (H9N2) infection in Plateau pika (<i>Ochotona curzoniae</i>), Qinghai Lake, China. <i>Veterinary Microbiology</i> , 2014, 173, 132-135.	1.9	38
24	Overexpression of HMGB1 A-box reduced IL-1 β -induced MMP expression and the production of inflammatory mediators in human chondrocytes. <i>Experimental Cell Research</i> , 2016, 349, 184-190.	2.6	38
25	Adaptation of H9N2 AIV in guinea pigs enables efficient transmission by direct contact and inefficient transmission by respiratory droplets. <i>Scientific Reports</i> , 2015, 5, 15928.	3.3	35
26	Simulation of secondary organic aerosol over the Yangtze River Delta region: The impacts from the emissions of intermediate volatility organic compounds and the SOA modeling framework. <i>Atmospheric Environment</i> , 2021, 246, 118079.	4.1	33
27	DNA methylation identifies genetically and prognostically distinct subtypes of myelodysplastic syndromes. <i>Blood Advances</i> , 2019, 3, 2845-2858.	5.2	32
28	Multiple amino acid substitutions involved in the adaptation of H6N1 avian influenza virus in mice. <i>Veterinary Microbiology</i> , 2014, 174, 316-321.	1.9	30
29	Comparison of the clinical efficacy of a femoral neck system versus cannulated screws in the treatment of femoral neck fracture in young adults. <i>BMC Musculoskeletal Disorders</i> , 2021, 22, 994.	1.9	29
30	Precursors and potential sources of ground-level ozone in suburban Shanghai. <i>Frontiers of Environmental Science and Engineering</i> , 2020, 14, 1.	6.0	28
31	B Cell Receptor Activation and Chemical Induction Trigger Caspase-Mediated Cleavage of PIAS1 to Facilitate Epstein-Barr Virus Reactivation. <i>Cell Reports</i> , 2017, 21, 3445-3457.	6.4	27
32	Contagious Caprine Pleuropneumonia in Endangered Tibetan Antelope, China, 2012. <i>Emerging Infectious Diseases</i> , 2013, 19, 2051-2053.	4.3	26
33	Rapid emergence of a PB2-E627K substitution confers a virulent phenotype to an H9N2 avian influenza virus during adaption in mice. <i>Archives of Virology</i> , 2015, 160, 1267-1277.	2.1	25
34	Experimental infection of non-human primates with avian influenza virus (H9N2). <i>Archives of Virology</i> , 2013, 158, 2127-2134.	2.1	24
35	SAMHD1 Regulates Human Papillomavirus 16-Induced Cell Proliferation and Viral Replication during Differentiation of Keratinocytes. <i>MSphere</i> , 2019, 4, .	2.9	24
36	miR-382a-3p suppressed IL-1 β induced inflammatory response of chondrocytes via the TLR4/MyD88/NF- κ B signaling pathway by directly targeting CX43. <i>Journal of Cellular Physiology</i> , 2019, 234, 23160-23168.	4.1	24

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37	Global transcriptome analysis of H5N1 influenza virus-infected human cells. <i>Hereditas</i> , 2019, 156, 10.	1.4	24
38	Minimally invasive percutaneous plate osteosynthesis versus intramedullary nail fixation for distal tibial fractures: a systematic review and meta-analysis. <i>Journal of Orthopaedic Surgery and Research</i> , 2019, 14, 456.	2.3	24
39	Deep vein thrombosis in the lower extremities after femoral neck fracture: A retrospective observational study. <i>Journal of Orthopaedic Surgery</i> , 2020, 28, 230949901990117.	1.0	24
40	A PB1 T296R substitution enhance polymerase activity and confer a virulent phenotype to a 2009 pandemic H1N1 influenza virus in mice. <i>Virology</i> , 2015, 486, 180-186.	2.4	23
41	Post wall fixation by lag screw only in associated both column fractures with posterior wall involvement. <i>Injury</i> , 2017, 48, 1510-1517.	1.7	23
42	CpG/Poly (I:C) mixed adjuvant priming enhances the immunogenicity of a DNA vaccine against eastern equine encephalitis virus in mice. <i>International Immunopharmacology</i> , 2014, 19, 74-80.	3.8	22
43	MiR-26a promotes fracture healing of nonunion rats possibly by targeting SOSTDC1 and further activating Wnt/ β -catenin signaling pathway. <i>Molecular and Cellular Biochemistry</i> , 2019, 460, 165-173.	3.1	22
44	Vertical distribution and transport of air pollutants during a regional haze event in eastern China: A tethered mega-balloon observation study. <i>Atmospheric Environment</i> , 2021, 246, 118039.	4.1	21
45	Infection with street strain rabies virus induces modulation of the microRNA profile of the mouse brain. <i>Virology Journal</i> , 2012, 9, 159.	3.4	20
46	Comparison of suprapatellar versus infrapatellar approaches of intramedullary nailing for distal tibia fractures. <i>Journal of Orthopaedic Surgery and Research</i> , 2020, 15, 422.	2.3	20
47	Explicit modeling of isoprene chemical processing in polluted air masses in suburban areas of the Yangtze River Delta region: radical cycling and formation of ozone and formaldehyde. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 5905-5917.	4.9	20
48	Adaptive amino acid substitutions enhance the virulence of an H7N7 avian influenza virus isolated from wild waterfowl in mice. <i>Veterinary Microbiology</i> , 2015, 177, 18-24.	1.9	19
49	Sources and vertical distribution of PM2.5 over Shanghai during the winter of 2017. <i>Science of the Total Environment</i> , 2020, 706, 135683.	8.0	19
50	Adaptive amino acid substitutions enhance the virulence of a reassortant H7N1 avian influenza virus isolated from wild waterfowl in mice. <i>Virology</i> , 2015, 476, 233-239.	2.4	18
51	Molecular characterization of metastatic osteosarcoma: Differentially expressed genes, transcription factors and microRNAs. <i>Molecular Medicine Reports</i> , 2017, 15, 2829-2836.	2.4	18
52	Minimally invasive stabilisation of posterior pelvic ring instabilities with pedicle screws connected to a transverse rod. <i>International Orthopaedics</i> , 2018, 42, 681-686.	1.9	18
53	Treatment of capitellar and trochlear fractures with posterior comminution: minimum 2-year follow-up. <i>Journal of Shoulder and Elbow Surgery</i> , 2019, 28, 931-938.	2.6	18
54	Scalable dual-omics profiling with single-nucleus chromatin accessibility and mRNA expression sequencing 2 (SNARE-seq2). <i>Nature Protocols</i> , 2021, 16, 4992-5029.	12.0	18

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55	Surgical Treatment of Acetabulum Top Compression Fracture with Sea Gull Sign. <i>Orthopaedic Surgery</i> , 2015, 7, 146-154.	1.8	16
56	Ca ²⁺ /Mg ²⁺ homeostasis-related TRPM7 channel mediates chondrocyte hypertrophy via regulation of the PI3K-Akt signaling pathway. <i>Molecular Medicine Reports</i> , 2017, 16, 5699-5705.	2.4	16
57	Three amino acid substitutions in the NS1 protein change the virus replication of H5N1 influenza virus in human cells. <i>Virology</i> , 2018, 519, 64-73.	2.4	16
58	Inclusion of membrane-anchored LTB or flagellin protein in H5N1 virus-like particles enhances protective responses following intramuscular and oral immunization of mice. <i>Vaccine</i> , 2018, 36, 5990-5998.	3.8	15
59	Hourly measurement of PM _{2.5} -bound nonpolar organic compounds in Shanghai: Characteristics, sources and health risk assessment. <i>Science of the Total Environment</i> , 2021, 789, 148070.	8.0	15
60	Relationship Between Time to Surgical Debridement and the Incidence of Infection in Patients with Open Tibial Fractures. <i>Orthopaedic Surgery</i> , 2020, 12, 524-532.	1.8	14
61	The effect of new preoperative preparation method compared to conventional method in complex acetabular fractures: minimum 2-year follow-up. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2021, 141, 215-222.	2.4	14
62	Intramuscular and intranasal immunization with an H7N9 influenza virus-like particle vaccine protects mice against lethal influenza virus challenge. <i>International Immunopharmacology</i> , 2018, 58, 109-116.	3.8	13
63	Risk Factors of Elbow Stiffness After Open Reduction and Internal Fixation of the Terrible Triad of the Elbow Joint. <i>Orthopaedic Surgery</i> , 2021, 13, 530-536.	1.8	13
64	Transcriptome Profiling Reveals Differential Effect of Interleukin-17A Upon Influenza Virus Infection in Human Cells. <i>Frontiers in Microbiology</i> , 2019, 10, 2344.	3.5	12
65	Fibroblast growth factor receptor signaling as therapeutic targets in female reproductive system cancers. <i>Journal of Cancer</i> , 2020, 11, 7264-7275.	2.5	12
66	Sema4D Aggravated LPS-Induced Injury via Activation of the MAPK Signaling Pathway in ATDC5 Chondrocytes. <i>BioMed Research International</i> , 2020, 2020, 1-11.	1.9	12
67	Formation mechanism of HCHO pollution in the suburban Yangtze River Delta region, China: A box model study and policy implementations. <i>Atmospheric Environment</i> , 2021, 267, 118755.	4.1	12
68	Perioperative Deep Vein Thrombosis in Patients With Lower Extremity Fractures: An Observational Study. <i>Clinical and Applied Thrombosis/Hemostasis</i> , 2020, 26, 107602962093027.	1.7	11
69	Anti-sliding plate technique for coronal shear fractures of the distal humerus. <i>Journal of Orthopaedic Surgery and Research</i> , 2020, 15, 18.	2.3	11
70	The impact of biogenic emissions on ozone formation in the Yangtze River Delta region based on MEGANv3.1. <i>Air Quality, Atmosphere and Health</i> , 2021, 14, 763-774.	3.3	10
71	The Clinical Efficacy of Suture-Button Fixation and Trans-Syndesmotic Screw Fixation in the Treatment of Ankle Fracture Combined With Distal Tibiofibular Syndesmosis Injury: A Retrospective Study. <i>Journal of Foot and Ankle Surgery</i> , 2022, 61, 143-148.	1.0	10
72	Understanding Epstein-Barr Virus Life Cycle with Proteomics: A Temporal Analysis of Ubiquitination During Virus Reactivation. <i>OMICS A Journal of Integrative Biology</i> , 2017, 21, 27-37.	2.0	9

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73	Failure analysis of primary surgery and therapeutic strategy of revision surgery for complex tibial plateau fractures. <i>Journal of Orthopaedic Surgery and Research</i> , 2019, 14, 110.	2.3	9
74	The innate immunity of guinea pigs against highly pathogenic avian influenza virus infection. <i>Oncotarget</i> , 2017, 8, 30422-30437.	1.8	9
75	The role of ultrasonography in examination of the stability of Tile-B2 pelvic fractures. <i>Medicine (United States)</i> , 2017, 96, e8100.	1.0	7
76	Protein inhibitor of activated STAT1 (PIAS1) inhibits IRF8 activation of Epstein-Barr virus lytic gene expression. <i>Virology</i> , 2020, 540, 75-87.	2.4	7
77	An emission inventory for Cl ₂ and HOCl in Shanghai, 2017. <i>Atmospheric Environment</i> , 2020, 223, 117220.	4.1	7
78	Comparison of posterior ring fixation with combined anterior and posterior ring fixation for the treatment of lateral compression type 2 pelvic fractures. <i>International Orthopaedics</i> , 2020, 44, 1187-1193.	1.9	7
79	Genetic polymorphisms of NOS2 and predisposition to fracture non-union: A case control study based on Han Chinese population. <i>PLoS ONE</i> , 2018, 13, e0193673.	2.5	7
80	A meta-analysis of the Masquelet technique and the Ilizarov bone transport method for the treatment of infected bone defects in the lower extremities. <i>Journal of Orthopaedic Surgery</i> , 2022, 30, 102255362211026.	1.0	7
81	Overexpression of FES might inhibit cell proliferation, migration, and invasion of osteosarcoma cells. <i>Cancer Cell International</i> , 2020, 20, 102.	4.1	6
82	miR-140-3p regulates the osteogenic differentiation ability of bone marrow mesenchymal stem cells by targeting spred2-mediated autophagy. <i>Molecular and Cellular Biochemistry</i> , 2021, 476, 4277-4285.	3.1	6
83	Effects of runt-related transcription factor 2 (<i>RUNX2</i>) on the autophagy of rapamycin-treated osteoblasts. <i>Bioengineered</i> , 2022, 13, 5262-5276.	3.2	6
84	Treatment of segmental tibial defects by bone transport with circular external fixation and a locking plate. <i>Journal of International Medical Research</i> , 2020, 48, 030006052092040.	1.0	5
85	Comparison of intramedullary nailing fixation and percutaneous locked plating fixation for the treatment of proximal tibial fractures: A meta-analysis. <i>Journal of Orthopaedic Surgery</i> , 2021, 29, 230949902110243.	1.0	5
86	An Approach to Intraoperatively Identify the Coronal Plane Deformities of the Distal Tibia When Treating Tibial Fractures with Intramedullary Nail Fixation: a Retrospective Study. <i>Orthopaedic Surgery</i> , 2022, 14, 365-373.	1.8	5
87	Stratifying tissue heterogeneity with scalable single-cell assays. <i>Nature Methods</i> , 2017, 14, 238-239.	19.0	4
88	Relationship between use of screws and acetabular cup stability in total hip arthroplasty: a meta-analysis. <i>Journal of International Medical Research</i> , 2020, 48, 030006052090364.	1.0	4
89	Investigating the photolysis of NO ₂ and influencing factors by using a DFT/TD-DFT method. <i>Atmospheric Environment</i> , 2020, 230, 117559.	4.1	4
90	Tibial shaft fractures treated with intramedullary nailing and reduction device assistance. <i>International Orthopaedics</i> , 2020, 44, 2413-2420.	1.9	3

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91	Feasibility of anterior pelvic ring fixation alone for treating lateral compression type 1 pelvic fractures with nondisplaced complete sacral fractures: a retrospective study. PeerJ, 2020, 8, e8743.	2.0	3
92	Dose tranexamic acid reduce blood loss associated with simultaneous bilateral distal tibial tubercle-high tibial osteotomy?. BMC Musculoskeletal Disorders, 2021, 22, 940.	1.9	3
93	The effects of common variants in MDM2 and GNRH2 genes on the risk and survival of osteosarcoma in Han populations from Northwest China. Scientific Reports, 2020, 10, 15939.	3.3	2
94	Clinical Efficacy of Vertical or Parallel Technique of a Microlocking Plate for Treatment of Dubberley Bâ€”Type Capitellar Fractures. Orthopaedic Surgery, 2021, 13, 207-215.	1.8	2
95	Locking compression plate fixation of femoral intertrochanteric fractures in patients with preexisting proximal femoral deformity: a retrospective study. Journal of Orthopaedic Surgery and Research, 2021, 16, 285.	2.3	2
96	Percutaneous reduction with double screwdrivers versus limited open reduction in the treatment of irreducible extracapsular hip fractures. BMC Musculoskeletal Disorders, 2022, 23, 429.	1.9	2
97	A time-course microarray data analysis reveals consistent dysregulated genes and upstream microRNAs in autoantibody-mediated arthritis. Journal of Orthopaedic Surgery and Research, 2017, 12, 186.	2.3	1
98	Reply to â€”DNA methylation haplotypes as cancer markersâ€™. Nature Genetics, 2018, 50, 1063-1066.	21.4	1
99	Deep Vein Thrombosis in the Uninjured Limb in Patients with Lower Extremity Fractures: A Retrospective Study. BioMed Research International, 2020, 2020, 1-7.	1.9	1
100	Serum MicroRNA Differences Between Fracture in Postmenopausal Women with and without Diabetes. Orthopaedic Surgery, 2021, 13, 285-295.	1.8	1
101	MicroRNAâ€”545â€”5p regulates apoptosis, migration and invasion of osteosarcoma by targeting dimethyladenosine transferase 1. Oncology Letters, 2021, 22, 763.	1.8	1
102	Letter to the editor on â€”Mobilization versus displacement on lateral stress radiographs for determining operative fixation of minimally displaced lateral compression type I (LC1) pelvic ring injuriesâ€”. International Orthopaedics, 2022, 46, 1205.	1.9	1
103	Comparison of the Effects of Intramedullary Nailing and Plate Fixation on Lower-Extremity Deep Vein Thrombosis after Tibial Fractures. Computational and Mathematical Methods in Medicine, 2022, 2022, 1-9.	1.3	1
104	Pseudoaneurysm of the internal iliac artery caused by proximal femoral nail antirotation following intertrochanteric fracture: a case report. Journal of International Medical Research, 2019, , 030006051989238.	1.0	0
105	Answer letter concerning â€”The effect of new preoperative preparation method compared to conventional method in complex acetabular fractures: minimum 2-year follow-upâ€”. Archives of Orthopaedic and Trauma Surgery, 2021, 141, 223-223.	2.4	0
106	Response to comments on: Comparison of suprapatellar versus infrapatellar approaches of intramedullary nailing for distal tibia fractures. Journal of Orthopaedic Surgery and Research, 2021, 16, 114.	2.3	0
107	Management of LC Type I (LC-1) Pelvic Injuries with Complete Sacral Fracture: Comparison of Solitary Anterior Fixation with Combined Anterior-Posterior Fixation. BioMed Research International, 2022, 2022, 1-11.	1.9	0
108	Nonspecific ST-Segment and T-Wave (NS-STT) on Electrocardiogram is Associated with Increasing the Incidence of Perioperative Deep Vein Thrombosis in Patients with Lower Extremity Fracture Under 75 Years Old. International Journal of General Medicine, 2021, Volume 14, 8631-8641.	1.8	0

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109	Predictors of long-term mortality after intertrochanteric fractures surgery: a 3-year retrospective study. BMC Musculoskeletal Disorders, 2022, 23, 472.	1.9	0