Jianguo Zhang

List of Publications by Year
in descending order

70	1,135	394421	501196
papers	citations	19 h-index	28 g-index

89	89	89	1208
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The efficacy and complications of posterior hemivertebra resection. European Spine Journal, 2011, 20, 1692-1702.	2.2	65
2	TBX6-associated congenital scoliosis (TACS) as a clinically distinguishable subtype of congenital scoliosis: further evidence supporting the compound inheritance and TBX6 gene dosage model. Genetics in Medicine, 2019, 21, 1548-1558.	2.4	60
3	TBX6 compound inheritance leads to congenital vertebral malformations in humans and mice. Human Molecular Genetics, 2019, 28, 539-547.	2.9	46
4	Genetic Polymorphism of LBX1 Is Associated With Adolescent Idiopathic Scoliosis in Northern Chinese Han Population. Spine, 2017, 42, 1125-1129.	2.0	45
5	Perturbations of genes essential for MÃ¼llerian duct and WÃ¶lffian duct development in Mayer-Rokitansky-KÃ¼ster-Hauser syndrome. American Journal of Human Genetics, 2021, 108, 337-345.	6.2	41
6	One-stage posterior-only lumbosacral hemivertebra resection with short segmental fusion: a more than 2-year follow-up. European Spine Journal, 2016, 25, 1567-1574.	2.2	40
7	Diagnostic yield and clinical impact of exome sequencing in early-onset scoliosis (EOS). Journal of Medical Genetics, 2021, 58, 41-47.	3.2	40
8	Corrective Surgery for Congenital Scoliosis Associated with Split Cord Malformation. Journal of Bone and Joint Surgery - Series A, 2016, 98, 926-936.	3.0	34
9	Chondrogenesis mediates progression of ankylosing spondylitis through heterotopic ossification. Bone Research, 2021, 9, 19.	11.4	32
10	Long noncoding RNA lncAIS downregulation in mesenchymal stem cells is implicated in the pathogenesis of adolescent idiopathic scoliosis. Cell Death and Differentiation, 2019, 26, 1700-1715.	11.2	31
11	Surgical outcomes and complications of posterior hemivertebra resection in children younger than 5 years old. Journal of Orthopaedic Surgery and Research, 2016, 11, 48.	2.3	30
12	Differential miRNAs profile and bioinformatics analyses in bone marrow mesenchymal stem cells from adolescent idiopathic scoliosis patients. Spine Journal, 2019, 19, 1584-1596.	1.3	28
13	TBX6 missense variants expand the mutational spectrum in a nonâ€Mendelian inheritance disease. Human Mutation, 2020, 41, 182-195.	2.5	27
14	Association betweenADAMTS-4gene polymorphism and lumbar disc degeneration in Chinese Han population. Journal of Orthopaedic Research, 2016, 34, 860-864.	2.3	26
15	The 100 Top-Cited Articles on Spinal Deformity. Spine, 2020, 45, 275-283.	2.0	24
16	The Progress of CRISPR/Cas9-Mediated Gene Editing in Generating Mouse/Zebrafish Models of Human Skeletal Diseases. Computational and Structural Biotechnology Journal, 2019, 17, 954-962.	4.1	23
17	Increased TBX6 gene dosages induce congenital cervical vertebral malformations in humans and mice. Journal of Medical Genetics, 2020, 57, 371-379.	3.2	23
18	Unplanned Reoperation within 30 Days of Fusion Surgery for Spinal Deformity. PLoS ONE, 2014, 9, e87172.	2.5	22

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19	The timing of surgical intervention in the treatment of complete motor paralysis in patients with spinal metastasis. European Spine Journal, 2016, 25, 4060-4066.	2.2	21
20	Intraoperative motor evoked potential monitoring to patients with preoperative spinal deficits: judging its feasibility and analyzing the significance of rapid signal loss. Spine Journal, 2017, 17, 777-783.	1.3	21
21	Exome sequencing reveals genetic architecture in patients with isolated or syndromic short stature. Journal of Genetics and Genomics, 2021, 48, 396-402.	3.9	21
22	Identification of novel FBN1 variations implicated in congenital scoliosis. Journal of Human Genetics, 2020, 65, 221-230.	2.3	20
23	Genetic polymorphisms of PAX1 are functionally associated with different PUMC types of adolescent idiopathic scoliosis in a northern Chinese Han population. Gene, 2019, 688, 215-220.	2.2	19
24	Genetic and molecular mechanism for distinct clinical phenotypes conveyed by allelic truncating mutations implicated in FBN1. Molecular Genetics & Genomic Medicine, 2020, 8, e1023.	1.2	19
25	SPRY4 is responsible for pathogenesis of adolescent idiopathic scoliosis by contributing to osteogenic differentiation and melatonin response of bone marrow-derived mesenchymal stem cells. Cell Death and Disease, 2019, 10, 805.	6.3	17
26	Whole-Genome Methylation Analysis of Phenotype Discordant Monozygotic Twins Reveals Novel Epigenetic Perturbation Contributing to the Pathogenesis of Adolescent Idiopathic Scoliosis. Frontiers in Bioengineering and Biotechnology, 2019, 7, 364.	4.1	17
27	Percutaneous Endoscopic Transforaminal Discectomy versus Conventional Open Lumbar Discectomy for Upper Lumbar Disc Herniation: A Comparative Cohort Study. BioMed Research International, 2020, 2020, 1-7.	1.9	17
28	Human and mouse studies establish TBX6 in Mendelian CAKUT and as a potential driver of kidney defects associated with the 16p11.2 microdeletion syndrome. Kidney International, 2020, 98, 1020-1030.	5.2	17
29	Frequent neuromonitoring loss during the completion of vertebral column resections in severe spinal deformity surgery. Spine Journal, 2017, 17, 76-80.	1.3	16
30	Comparative analysis of serum proteome in congenital scoliosis patients with <scp>TBX</scp>6 haploinsufficiency â€“ a first report pointing to lipid metabolism. Journal of Cellular and Molecular Medicine, 2018, 22, 533-545.	3.6	16
31	Phenotypic and genetic spectrum of isolated macrodactyly: somatic mosaicism of PIK3CA and AKT1 oncogenic variants. Orphanet Journal of Rare Diseases, 2020, 15, 288.	2.7	15
32	Risk factors for construct/implant related complications following primary posterior hemivertebra resection: Study on 116 cases with more than 2Âyearsâ€™ follow-up in one medical center. BMC Musculoskeletal Disorders, 2016, 17, 380.	1.9	14
33	Multiple cervical hemivertebra resection and staged thoracic pedicle subtraction osteotomy in the treatment of complicated congenital scoliosis. European Spine Journal, 2016, 25, 188-193.	2.2	14
34	Radiographic evaluation of posterior selective thoracolumbar or lumbar fusion for moderate Lenke 5C curves. Archives of Orthopaedic and Trauma Surgery, 2017, 137, 1-8.	2.4	14
35	Radiographic characteristics in congenital scoliosis associated with split cord malformation: a retrospective study of 266 surgical cases. BMC Musculoskeletal Disorders, 2017, 18, 420.	1.9	14
36	How to select the lowest instrumented vertebra in Lenke type 5 adolescent idiopathic scoliosis patients?. Spine Journal, 2021, 21, 141-149.	1.3	14

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37	Comparison of posterior correction results between Marfan syndrome scoliosis and adolescent idiopathic scoliosisâ€"a retrospective case-series study. Journal of Orthopaedic Surgery and Research, 2015, 10, 73.	2.3	12
38	Risk factors of perioperative complications for posterior spinal fusion in degenerative scoliosis patients: a retrospective study. BMC Musculoskeletal Disorders, 2018, 19, 242.	1.9	12
39	Tranexamic acid given into wound reduces postoperative drainage, blood loss, and hospital stay in spinal surgeries: a meta-analysis. Journal of Orthopaedic Surgery and Research, 2021, 16, 401.	2.3	12
40	A Recurrent Rare SOX9 Variant (M469V) is Associated with Congenital Vertebral Malformations. Current Gene Therapy, 2019, 19, 242-247.	2.0	11
41	High-Risk Surgical Maneuvers for Impending True-Positive Intraoperative Neurologic Monitoring Alerts: Experience in 3139 Consecutive Spine Surgeries. World Neurosurgery, 2018, 115, e738-e747.	1.3	10
42	The prediction of intraoperative cervical cord function changes by different motor evoked potentials phenotypes in cervical myelopathy patients. BMC Neurology, 2020, 20, 221.	1.8	10
43	Comparison between surgical fusion and the growing-rod technique for early-onset neurofibromatosis type-1 dystrophic scoliosis. BMC Musculoskeletal Disorders, 2020, 21, 455.	1.9	9
44	Risk factors for blood transfusion in adolescent patients with scoliosis undergoing scoliosis surgery: a study of 722 cases in a single center. BMC Musculoskeletal Disorders, 2021, 22, 13.	1.9	9
45	Pleural Effusion in Spinal Deformity Correction Surgery- A Report of 28 Cases in a Single Center. PLoS ONE, 2016, 11, e0154964.	2.5	8
46	Rare true-positive outcome of spinal cord monitoring in patients under age 4 years. Spine Journal, 2016, 16, 1090-1094.	1.3	7
47	Predictors for blood loss in pediatric patients younger than 10â€‰years old undergoing primary posterior hemivertebra resection: a retrospective study. BMC Musculoskeletal Disorders, 2019, 20, 297.	1.9	7
48	Modified PUMC classification for adolescent idiopathic scoliosis. Spine Journal, 2019, 19, 1518-1528.	1.3	7
49	Survivals of the Intraoperative Motor-evoked Potentials Response in Pediatric Patients Undergoing Spinal Deformity Correction Surgery. Spine, 2019, 44, E950-E956.	2.0	7
50	Outcomes of 360Â° Osteotomy in the Cervicothoracic Spine (C7-T1) for Congenital Cervicothoracic Kyphoscoliosis in Children. Journal of Bone and Joint Surgery - Series A, 2019, 101, 1357-1365.	3.0	7
51	Intra-operative MEP monitoring can work well in the patients with neural axis abnormality. European Spine Journal, 2016, 25, 3194-3200.	2.2	6
52	Surgical approaches and outcomes for cervical myelopathy with increased signal intensity on T2-weighted MRI: a meta-analysis. Journal of Orthopaedic Surgery and Research, 2019, 14, 224.	2.3	6
53	Vertebral Growth Around Distal Instrumented Vertebra in Patients With Early-Onset Scoliosis Who Underwent Traditional Dual Growing Rod Treatment. Spine, 2019, 44, 855-865.	2.0	6
54	Mutational burden and potential oligogenic model of TBX6â€mediated genes in congenital scoliosis. Molecular Genetics & Genomic Medicine, 2020, 8, e1453.	1.2	6

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55	Whole Exome Sequencing Uncovered the Genetic Architecture of Growth Hormone Deficiency Patients. Frontiers in Endocrinology, 2021, 12, 711991.	3.5	6
56	Complications analysis of posterior vertebral column resection in 40 patients with spinal tumors. Experimental and Therapeutic Medicine, 2014, 8, 1539-1544.	1.8	4
57	Posterior only instrumented fusion provides incomplete curve control for early-onset scoliosis in type 1 neurofibromatosis. BMC Pediatrics, 2020, 20, 63.	1.7	4
58	Mutational landscape and genetic signatures of cellâ€free DNA in tumourâ€induced osteomalacia. Journal of Cellular and Molecular Medicine, 2020, 24, 4931-4943.	3.6	4
59	Outcomes of Posterior Lumbar Hemivertebra Resection and Short Fusion in Patients With Severe Sacral Tilt. Neurospine, 2021, 18, 562-569.	2.9	4
60	DrABC: deep learning accurately predicts germline pathogenic mutation status in breast cancer patients based on phenotype data. Genome Medicine, 2022, 14, 21.	8.2	4
61	Neurofibromatosis Type 1 with Severe Dystrophic Kyphosis: Surgical Treatment and Prognostic Analysis of 27 Patients. Orthopaedic Surgery, 2020, 12, 1923-1940.	1.8	3
62	Transcriptome-wide Sequencing Reveals Molecules and Pathways Involved in Neurofibromatosis Type I Combined With Spinal Deformities. Spine, 2020, 45, E489-E498.	2.0	2
63	A novel COMP mutation in a Chinese family with multiple epiphyseal dysplasia. BMC Medical Genetics, 2020, 21, 115.	2.1	2
64	Posterior fossa decompression with or without duraplasty for patients with chiari type I malformation and basilar impression: a meta-analysis. European Spine Journal, 2021, 30, 454-460.	2.2	2
65	Estrogen Receptors (ESRs) Mutations in Adolescent Idiopathic Scoliosis: A Cross-Sectional Study. Medical Science Monitor, 2020, 26, e921611.	1.1	2
66	Risk factors of postoperative pulmonary complications after primary posterior fusion and hemivertebra resection in congenital scoliosis patients younger than 10 years old: a retrospective study. BMC Musculoskeletal Disorders, 2022, 23, 89.	1.9	1
67	Front Cover, Volume 41, Issue 1. Human Mutation, 2020, 41, i.	2.5	0
68	Severe complications and management of a patient with myasthenia gravis undergoing anterior cervical spinal surgery: a case report. Annals of Palliative Medicine, 2021, .	1.2	0
69	Transient tracheal stenosis due to trachea compression and stretching after spinal deformity correction surgery. Journal of Clinical Anesthesia, 2021, 75, 110542.	1.6	0
70	A rare intraoperative spinal cord injury caused by thoracic 8 nerve root interruption during posterior vertebral column resection surgery for severe congenital kyphoscoliosis: a case report. BMC Neurology, 2020, 20, 203.	1.8	0